

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

SELF ASSESSMENT REPORT(TIER - I) FOR Mechanical Engineering

Part A : Institutional Information

1 Name and Address of the Institution

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY,
MAISAMMAGUDA, DHULAPALLY (VIA) HAKIMPET

2 Name and Address of Affiliating University

NIL

3 Year of establishment of the Institution:

2004

4 Type of the Institution:

<input type="radio"/> Institute of National Infortance	<input type="radio"/> Autonomous
<input type="radio"/> University	<input type="radio"/> Any other(please specify)
<input type="radio"/> Deemed University	

5 Ownership Status:

<input type="radio"/> Central Government	<input type="checkbox"/> Trust
<input type="radio"/> State Government	<input type="checkbox"/> Society
<input type="radio"/> Government Aided	<input type="checkbox"/> Section 25 Company
<input type="radio"/> Self financing	<input type="checkbox"/> Any Other(Please Specify)

6 Other Academic Institutions of the Trust/Society/Company etc., if any

Name of Institutions	Year of Establishment	Programs of Study	Location

7 Details of all the programs being offered by the Institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Mechanical Engg.	UG	2010	2010	60	Yes	30	Granted accreditation for 3 years for the period (specify period)	2022	2025	Yes	4
Sanctioned Intake for Last Five Years for the Mechanical Engg.											
Academic Year						Sanctioned Intake					
2024-25						30					
2023-24						30					
2022-23						30					
2021-22						60					
2020-21						60					
2019-20						180					
Machine Design	PG	2012	2012	24	Yes	18	Eligible but not applied	--	--	No	2
Sanctioned Intake for Last Five Years for the Machine Design											
Academic Year						Sanctioned Intake					
2024-25						18					
2023-24						24					
2022-23						24					
2021-22						24					
2020-21						24					
2019-20						48					
Thermal Engg.	PG	2013	2013	24	Yes	0	Not eligible for accreditation	--	--	No	2

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Sanctioned Intake for Last Five Years for the Thermal Engg.											
Academic Year						Sanctioned Intake					
2024-25						0					
2023-24						24					
2022-23						24					
2021-22						24					
2020-21						24					
2019-20						24					

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Mechanical Engineering
2	Under Graduate	Engineering & Technology	Electrical and Electronics Engineering
3	Under Graduate	Engineering & Technology	Computer Science and Engineering
4	Under Graduate	Engineering & Technology	ELECTRONICS AND COMMUNICATION ENGINEERING

9 Total number of employees

A. Regular* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	187	188	180	184	194	195
Faculty in Engineering (Female)	149	151	129	132	151	152
Faculty in Maths, Science & Humanities teaching in engineering program (Male)	28	29	30	32	26	27
Faculty in Maths, Science & Humanities teaching in engineering program (Female)	29	30	27	29	27	28
Non-teaching staff (Male)	68	70	65	69	67	73
Non-teaching staff (Female)	35	36	35	42	38	42

B. Contractual* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	0	0	0	0	0	0
Faculty in Engineering (Female)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities teaching in engineering Programs (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities teaching in engineering Programs (Female)	0	0	0	0	0	0
Non-teaching staff (Male)	64	66	62	65	71	79
Non-teaching staff (Female)	34	36	30	34	22	28

10 Total number of Engineering students:

Engineering and Technology- UG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- PG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- Polytechnic	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MBA	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MCA	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2

Engineering and Technology- UG Shift-1

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	3535	3338	3107
Total no. of Girls	1688	1556	1356
Total	5223	4894	4463

Engineering and Technology- PG Shift-1

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	88	72	34
Total no. of Girls	59	42	32
Total	147	114	66

Engineering and Technology- MBA Shift-1

Course Name	2024-25	2023-24	2022-23
Total no. of Boys	272	281	270
Total no. of Girls	240	230	229
Total	512	511	499

11 Vision of the Institution:

To establish a pedestal for the integral innovation, team spirit, originality and competence in the students, expose them to face the global challenges and become pioneers of Indian vision of modern society.

12 Mission of the Institution:

- To become a model institution in the fields of Engineering, Technology and Management.
- To impart holistic education to the students to render them as industry ready engineers.
- To ensure synchronization of institute ideologies with challenging demands of International Pioneering Organizations.

13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution	
Name	Dr S Srinivasa Rao
Designation	Principal
Mobile No.	9346648391
Email ID	mrcet2004@gmail.com

☒ NBA Coordinator, If Designated

Name	Dr PHV Sesha Talpa Sai
Designation	Head of the Department
Mobile No.	9346665556
Email ID	polamrajusai@gmail.com

PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50	50.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	100	100.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	175	175.00
4	STUDENTS' PERFORMANCE	100	86.40
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	200.00
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	75	75.00
8	FIRST YEAR ACADEMICS	50	47.18
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	1000	983

Part B : Criteria Summary

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

Total Marks 50.00

1.1 State the Vision and Mission of the Department and Institute (5)

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	To establish a pedestal for the integral innovation, team spirit, originality and competence in the students, expose them to face the global challenges and become pioneers of Indian vision of modern society.									
Mission of the institute	<ul style="list-style-type: none">• To become a model institution in the fields of Engineering, Technology and Management.• To impart holistic education to the students to render them as industry ready engineers.• To ensure synchronization of institute ideologies with challenging demands of International Pioneering Organizations.									
Vision of the Department	To become an innovative knowledge center in mechanical engineering through state-of-the-art teaching-learning and research practices, promoting creative thinking professionals.									
Mission of the Department	<table><tr><th>Mission No.</th><th>Mission Statements</th></tr><tr><td>M1</td><td>The Department of Mechanical Engineering is dedicated for transforming the students into highly competent Mechanical engineers.</td></tr><tr><td>M2</td><td>To meet the needs of the industry, in a changing and challenging technical environment.</td></tr><tr><td>M3</td><td>Strongly focusing in the fundamentals of engineering sciences for achieving excellent results in their professional pursuits.</td></tr></table>		Mission No.	Mission Statements	M1	The Department of Mechanical Engineering is dedicated for transforming the students into highly competent Mechanical engineers.	M2	To meet the needs of the industry, in a changing and challenging technical environment.	M3	Strongly focusing in the fundamentals of engineering sciences for achieving excellent results in their professional pursuits.
Mission No.	Mission Statements									
M1	The Department of Mechanical Engineering is dedicated for transforming the students into highly competent Mechanical engineers.									
M2	To meet the needs of the industry, in a changing and challenging technical environment.									
M3	Strongly focusing in the fundamentals of engineering sciences for achieving excellent results in their professional pursuits.									

1.2 State the Program Educational Objectives (PEOs) (5)

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	PREPARATION: To provide sound foundation in mathematical, scientific and engineering fundamentals necessary to analyze, formulate and solve engineering problems.
PEO2	CORE COMPETANCE: To provide thorough knowledge in Mechanical Engineering subjects including theoretical knowledge and practical training for preparing physical models pertaining to Thermodynamics, Hydraulics, Heat and Mass Transfer, Dynamics of Machinery, Jet Propulsion, Automobile Engineering, Element Analysis, Production Technology, Mechatronics etc.
PEO3	INVENTION, INNOVATION AND CREATIVITY: To make the students to design, experiment, analyze, interpret in the core field with the help of other inter disciplinary concepts wherever applicable.
PEO4	CAREER DEVELOPMENT: To inculcate the habit of lifelong learning for career development through successful completion of advanced degrees, professional development courses, industrial training etc.
PEO5	PROFESSIONALISM: To impart technical knowledge, ethical values for professional development of the student to solve complex problems and to work in multi-disciplinary ambience, whose solutions lead to significant societal benefits.

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (15)

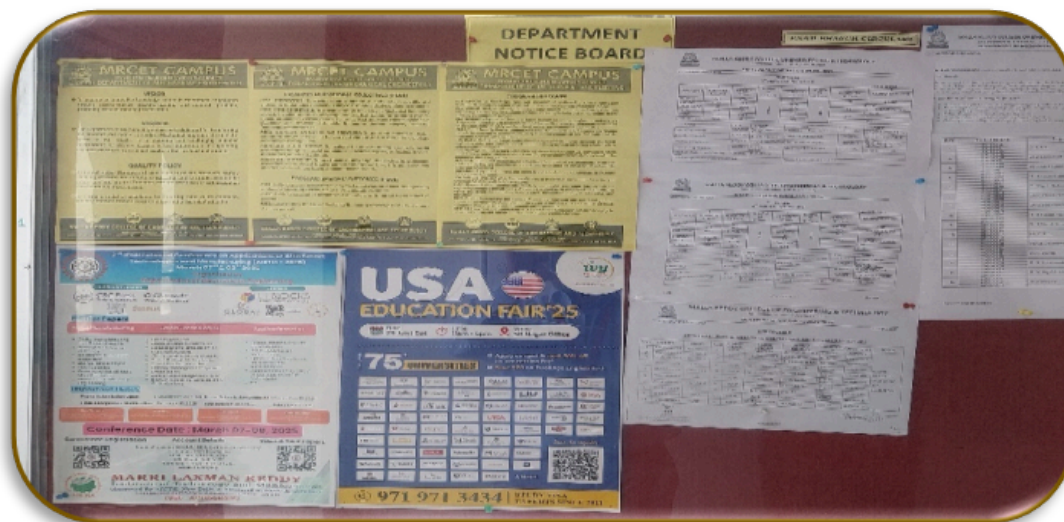
Total Marks 15.00

The Vision and Mission provides the direction to the department activities and its progress. It communicates the purpose of the organization to its stakeholders and also to inform them about the development. To achieve this, the vision, mission and PEO's are disseminated in the following ways:

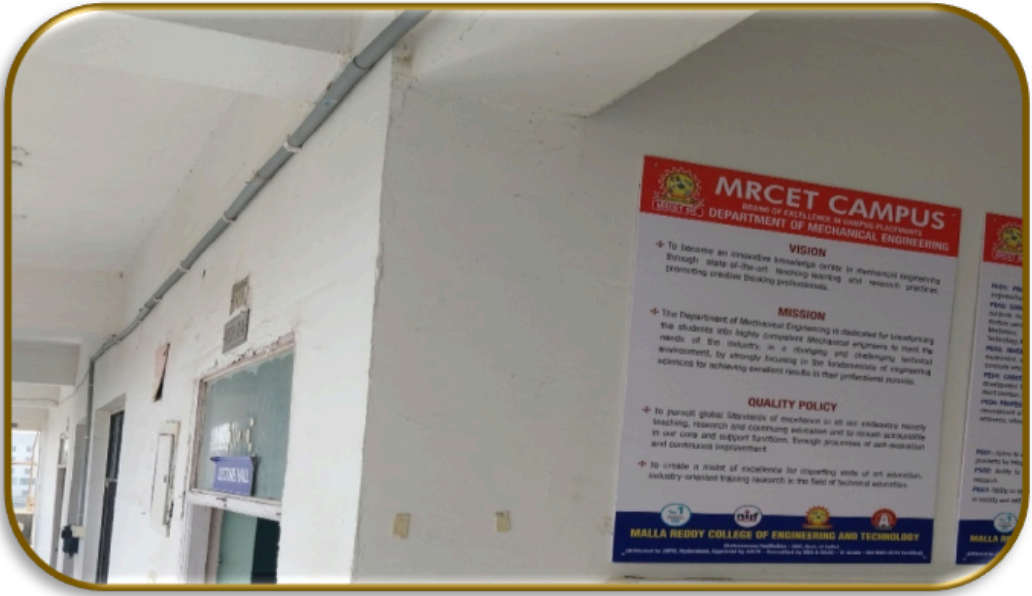
PUBLICATION OF MISSION AND VISION

- Mission and vision statements are displayed in the form of display boards in all the class rooms, laboratories, staff rooms, corridors and offices of the department including department boards.
- Mission and vision statements are prominently published in the department home page of the college website which is frequented by all stakeholders of the programme.
- They are also published in the department digital magazine and the college brochure which is released once every year.
- Mission and vision statements are printed in the student handbooks and lab manuals which are published in hard/soft copy every semester and are given to students.

A few evidences of the dissemination of the vision, mission and PEO statements are presented in the images below.



Vision and Mission statements near Department Notice Board



Vision and Mission statements in corridors

Dissemination of Vision, Mission and PEOs among the stakeholders is carried out as given in the Table.1.3.1.

Table. 1.3.1. Dissemination of Vision, Mission and PEOs among the stakeholders

Stakeholder	Category of the stakeholder	Mode of Dissemination of Vision, Mission and PEOs
Students	Internal	Orientation Program Hod's Cabin Department Corridors Faculty Cabins Laboratories Laboratory Manuals Digital Notes Department Magazines Institute Website

Faculty	Internal	Induction Program Course File Hod's Cabin Department Corridors Faculty Cabins Laboratories Laboratory Manuals Digital Notes Websites Department Magazines Institute Website
Management Representative	Internal	Institute Website HoD's cabin Faculty cabins Classrooms Laboratories
Parents	External	Orientation Program, Parent Teacher Meetings Institute Website
Alumni	External	Alumni Meet Institute Website Survey, etc.
BoS experts	External	BOS Meetings Institute Website
Industry experts	External	BOS Meetings Institute Website
Funding Agencies	External	Institute Website Brochure

A few evidences of the dissemination of the PEO, PSO and PO statements are presented as the images below.

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (15)

Total Marks 15.00

Vision and Mission of the department align with the Vision and Mission of the Institute. It is based on the processes and practices followed in the department towards the achievement of Institute's Vision and Mission. The mission and vision statements are also in tune with the current and future technological requirements of the society in terms of professionals required for the development of the nation, as the CMR Educational Society's and JNTUH's mission and vision are derived from the state/central government plans, developments, and the needs of the state/country. The entire process of defining the department's mission and vision is given below which is also illustrated in figure 1.1.

1. Relevant information is gathered for framing vision and mission of the department, such as
 - State/central government plans
 - Latest technological developments
 - Needs of the state and country
 - Malla Reddy College of Engineering & Technology's vision and mission which is defined from the above and as well as the following:
 - CMR Educational Society's vision and mission
 - JNTUH's(affiliating university) vision and mission
2. Brainstorming sessions are conducted for deriving the mission and vision of the department from that of the institution with the stakeholders that include members from Governing Management, Faculty, Parents and Future Employers.
3. From the resolutions of the brain storming sessions the vision statement of the department is articulated and approved by all the involved stakeholders.
4. From the vision statement, the mission statements are articulated which provide the means to achieve the vision of the department that is articulated in the previous step.

The mission and vision of the department are first defined in 2004 when the institute was established and during which B.Tech programme was started.

As shown below, the process that involves in conducting several brainstorming sessions with all the stakeholders and also in defining both the institutions and the department's mission and vision. To be more precise, the vision statement is framed first and the mission to achieve the vision is then framed. From the mission of the department, the Programme Educational Objectives (PEOs) are derived. Programme outcomes (POs) are in turn derived from PEOs, and course outcomes (COs) are derived from POs. The design hierarchy of Vision, Mission, PEO, PO, CO and Programme Curriculum is shown in figure 1.2

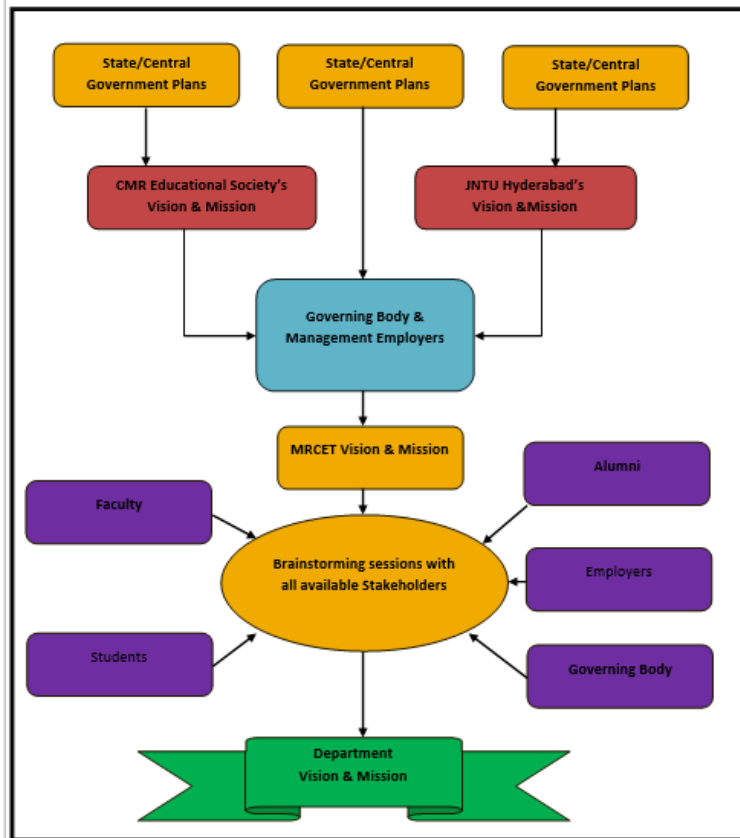


Figure 1.1.Process for defining Vision and Mission of the department



Figure1.2 Design hierarchy of Vision, Mission, PEOs, Pos and Cos

Before describing the process that periodically documents and demonstrates the PEOs, the needs of various stakeholders are to be identified and to be considered for defining the PEOs offered by the department.

Process for defining the PEOs of the department

To establish the PEOs, The department has analyzed the survey reports collected from different stakeholders, their requirements and demands. Feedback is taken in the form of survey reports presented by the selected stakeholders of institution and their requirements and demands.

Stakeholder	Requirements and demands Of Stakeholders	Programme Educational Objectives				
		PEO1	PEO2	PEO3	PEO4	PEO5
Students	Quality Education Academic Guidance Appropriate Academic environments	S	S	S	S	S
Parents	Quality Education and Opportunities Of getting Placed in MNC for their Children	S	S	S	S	S
Faculty and Staff	Achievements, academic support, teaching and research skills improvement opportunities and financial and non-financial benefits, Recognition	S	S	S	S	S
Alumni	Employability skills, lifelong learning experiences and achievements	S	S	S	S	S
Employers (Government, Industry, Universities)	Quality education, employable and responsible graduates and accountability. Technically strong and market oriented graduates with Leadership skills	S	S	S	S	S
Governing Body	Smooth functioning, financial Management and good governance	S	S	S	S	S
Professional Bodies	Keep students abreast with latest Technological development	S	S	S	S	S
Sponsors and Donors	Overall development of students	S	S	S	S	S

Table 1.2 Stake holders demands

ColorCode	Meaning
S	Strong
M	Medium
W	Weak
N	No

The PEOs for the B.Tech programme describe the overall thrust of the department as they guide the operation and continuous improvement of its undergraduate engineering are developed by the senior faculty in consultation with other stakeholders of the programme, and by taking into consideration the mission statements of JNTUH, Malla Reddy College of Engineering & Technology and the Department.

To achieve the mission, the department has established and formulated PEOs which are statements describing the expected accomplishments of graduates during the first few graduation. PEOs evolve as programme stakeholders periodically review them and fine tune them.

The department also recognizes that, with time, especially in a rapidly changing socio-economic environment and indeed of the world order, there can be a shift in the aspirations of looks towards strategic research institutions, government agencies, and the department's assessment and evaluation system, through its vast alumni network to provide and adapt of achieving them to meet changing environmental aspirations.

The process of establishment of PEOs is as follows:

1. The information required for establishing PEOs is collected that includes the mission of the department.
2. Brainstorming sessions are conducted with the stakeholders committee and the needs of the stakeholders are identified.
3. Based on the needs identified and the mission of the department, the PEOs are defined, documented, published, and disseminated to all the stakeholders by the Department (DAC).
4. After a period of time (four years after the students graduate) the PEOs are assessed to know whether they have met the needs of the stakeholders by means of various direct methods/metrics that are given below:
 - a. Employer survey
 - b. Alumni Survey
 - c. Number of students who are successfully placed in industry
 - d. Number of students who have pursued higher education and research

- e. Number of students who have setup an enterprise
5. If the results of the above assessments demonstrate that the defined PEOs are in tune with the needs of the stakeholders, the PEOs are considered to have been established.
6. If the results of the assessments demonstrate that the derived PEOs are not in tune with the needs of the stakeholders, then the PEOs are redefined by conducting brainstorming with all the stakeholders.
7. The process is repeated from step3.

The process that is explained above is illustrated in the figure1.3.

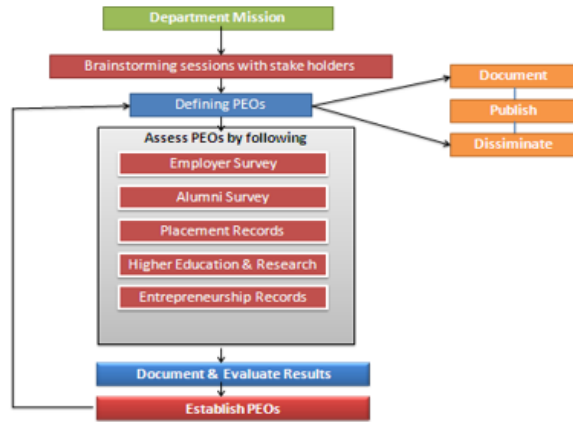


Figure 1.3: Process of defining PEO's

Documentation of the entire process of establishing is done by maintaining several files in the department. For each of the surveys explained above, a separate file is maintained year-The data in

S.No	FILE NO	FILE NAME	FILE CONTENTS	DESCRIPTION
1	MRCET/ME/01	Employer Survey For the academic year2022-23	*Employer survey Forms filled by Employers of Reputed Industry.	*Employer survey is Conducted every year Starting from the year 2006-07byDAC.
2	MRCET/ME/02	Employer Survey For the academic year2023-24	*Results of analysis conducted on the Survey.	*Analysis is done by DAC.
3	MRCET/ME/03	Employer Survey For the academic year2024-25	*Alumni survey forms filled by alumni.	*A separate file is Maintained for each Assessment year.
4	MRCET/ME/04	Alumni Survey 2022-23	*Results of analysis Conducted on the Survey.	*Data is collected About students who Graduated four years ago.
5	MRCET/ME/05	Alumni Survey 2023-24		*Alumni survey is Conducted every year By DAC. Analysis is Done by DAC. A separate file is Maintained for each Assessment year.
6	MRCET/ME/06	Alumni Survey 2024-25		*Data is collected About students who Graduated four years ago.
7	MRCET/ME/07	Employment Records of students fromBatch2020-21 onwards	*Employment Details of students Who are employed. *Analysis of Collected data.	*Employment details Of students belonging to each batch are collected and Updated regularly in This file by PTC every Year and maintained in the department by HOD. *Data is collected from the year of graduation of the students. *Analysis is done by PTC. A separate file is Maintained for each Batch of students.

8	MRCET/ME/08	Higher Education Records of students fromBatch2020-21onwards	*Higher education details of students who opted for higher studies. *Analysis of collected data.	*Higher education details of students belonging to each batch are collected and *Data is collected from the year of graduation of the students. Analysis is done by DAC. *A separate file is maintained for each Batch of students.
9	MRCET/ME/09	Entrepreneurship Records of students fromBatch2020-21onwards	*Details of students who opted for entrepreneurship. *Analysis of collected data.	*Entrepreneurship details *Data is collected from the year of graduation of the students. *Analysis is done by DAC. *A separate file is maintained for each Batch of students.
10	MRCET/ME/10	Minutes of Meeting with Stakeholders committee	*Details of minutes of meeting *Members present Inputs from SC members	*Analysis is done by DAC and CAC.

Table1.5 List of Files maintained in the Department

1.5 Establish consistency of PEOs with Mission of the Department (10)

Total Marks 10.00

I. Consistency of PEO1 with Mission statement**PEO1: PREPARATION**

To provide sound foundation in mathematical, scientific and engineering fundamentals necessary to analyze, formulate and solve engineering problems.

The first part of mission statement is stated as

M1: The Department of Mechanical Engineering is dedicated for transforming the students into highly competent Mechanical engineers.

Category of subjects in Academic curriculum enables students to gain sound knowledge, State-of-the-art Laboratory facilities provides the students to exposure with practical knowledge which builds the confidence to be competitive in real world of Mechanical Engineering.

M2: To meet the needs of the industry, in a changing and challenging technical environment.

The training based on a holistic approach focusses on all-round development of students provided in the institute, helps them to pursue a successful career in industries. Students of Mechanical Engineering are provided an opportunity to specialize in industry-oriented challenges through projects.

M3: Strongly focusing in the fundamentals of engineering sciences for achieving excellent results in their professional pursuits

The Mechanical Department has well-qualified and experienced Faculty who have devoted their careers to academic pursuits and are well equipped to transform the young students in fundamentals of sciences in engineering application.

II. Consistency of PEO2 with Mission statement**PEO2: CORE COMPETENCE**

To provide thorough knowledge in Mechanical Engineering subjects including theoretical knowledge and practical training for preparing physical models pertaining to Thermodynamics, Hydraulics, Heat and Mass Transfer, Dynamics of Machinery, Jet Propulsion, Automobile Engineering, Element Analysis, Production Technology, Mechatronics etc..

The first part of mission statement is stated as

M1: The Department of Mechanical Engineering is dedicated for transforming the students into highly competent Mechanical engineers

The program provides a learning environment which covers advanced topics in the syllabus, practical learning of various techniques innovatively provides more exposure to integrate various aspects for ensuring sustainable development which are essential requirements for today.

M2: To meet the needs of the industry, in a changing and challenging technical environment.

Through different projects (Industry oriented projects, Application Development Internship, Mini Project, Major Project & IIPC Activities) required to be completed as part of the curriculum, students are exposed to industrial environment thus there is a strong focus is on application of knowledge towards Challenging requirements in industry.

M3: Strongly focusing in the fundamentals of engineering sciences for achieving excellent results in their professional pursuits

Highlights facilitating a conducive environment and infrastructure for providing solid foundation of basic sciences, giving rise to a high correlation.

III. Consistency of PEO3 with Mission statement**PEO3: INVENTION, INNOVATION AND CREATIVITY**

To make the students to design, experiment, analyze, interpret in the core field with the help of other inter disciplinary concepts wherever applicable.

The first part of mission statement is stated as

M1: The Department of Mechanical Engineering is dedicated for transforming the students into highly competent Mechanical engineers

Curriculum Program provides inputs to students get themselves to increase self-confidence by critical thinking and innovative ideas which builds leadership skills for starts ups.

M2: To meet the needs of the industry, in a changing and challenging technical environment.

The department encourages students to interact with industry in all possible ways with the spirit of deriving mutual benefit. Visits of industry executives and practicing engineers to the Institute for discussions and delivering lectures on industrial practices makes the students to meet industry Challenges.

M3: Strongly focusing in the fundamentals of engineering sciences for achieving excellent results in their professional pursuits

To equip students with robust scientific and practical engineering application skills, along with a strong research acumen, enabling them to conceive, analyze, design, and create innovative engineering products.

IV. Consistency of PEO4 with Mission statement**PEO4: CAREER DEVELOPMENT**

To inculcate the habit of lifelong learning for career development through successful completion of advanced degrees, professional development courses, industrial training etc.

The first part of mission statement is stated as

M1: The Department of Mechanical Engineering is dedicated for transforming the students into highly competent Mechanical engineers

The program emphasizes the latest curriculum based on Outcome-Based Education (OBE), incorporating a variety of activities such as teaching, assessments through tests, assignments, and group tasks. The program provides measures to counsel students to pursue higher studies and research through Higher education cell.

M2: To meet the needs of the industry, in a changing and challenging technical environment.

The program offers a learning environment that covers advanced topics in the syllabus, fosters practical learning of various techniques, and encourages innovative approaches. It provides enhanced exposure to research in specialized areas, supports the pursuit to interact with industry in all possible ways with the spirit of deriving mutual benefit.

M3: Strongly focusing in the fundamentals of engineering sciences for achieving excellent results in their professional pursuits

Knowledge gained through this program and work experience in industries shall enhance the capacity of graduates to provide innovative solutions to real-world problems through basic application of sciences.

V. Consistency of PEO5 with Mission statement**PEO5: PROFESSIONALISM**

To impart technical knowledge, ethical values for professional development of the student to solve complex problems and to work in multi-disciplinary ambience, whose solutions lead to significant societal benefits.

As per the statement defined above, PEO5 stress the importance of becoming a successful entrepreneur as well as dissemination of research findings with good soft skills.

The first part of mission statement is stated as

M1: The Department of Mechanical Engineering is dedicated for transforming the students into highly competent Mechanical engineers

Category of subjects in curriculum enables students to learn professional behavior. Team works are introduced wherever necessary like project works, presentations, group activities and societal concerns through AICTE activities as well Humanity and social science subjects.

M2: To meet the needs of the industry, in a changing and challenging technical environment

The program supports industry institute interaction to empower professionalism through interaction with industry people, internships, projects work, and extracurricular activities makes the students to identify the needs of the industry. Which leads them to make a idea which transforms to an invention through innovation and creativity.

M3: Strongly focusing in the fundamentals of engineering sciences for achieving excellent results in their professional pursuits

Program supports mentoring that increases self-confidence, self-awareness, leadership skill development, strong communication skills and exposure to new and different perspectives in a team.

PEO Statements	M1	M2	M3
PREPARATION: To provide sound foundation in mathematical, scientific and engineering fundamentals necessary to analyze, formulate and solve engineering problems.	3 ▼	3 ▼	3 ▼
CORE COMPETANCE: To provide thorough knowledge in Mechanical Engineering subjects including theoretical knowledge and practical training for preparing physical models pertaining to Thermodynamics, Hydraulics, Heat and Mass Transfer, Dynamics of Machinery, Jet Propulsion, Automobile Engineering, Element Analysis, Production Technology, Mechatronics etc.	3 ▼	3 ▼	3 ▼
INVENTION, INNOVATION AND CREATIVITY: To make the students to design, experiment, analyze, interpret in the core field with the help of other inter disciplinary concepts wherever applicable.	3 ▼	3 ▼	3 ▼
CAREER DEVELOPMENT: To inculcate the habit of lifelong learning for career development through successful completion of advanced degrees, professional development courses, industrial training etc.	3 ▼	3 ▼	3 ▼
PROFESSIONALISM: To impart technical knowledge, ethical values for professional development of the student to solve complex problems and to work in multi-disciplinary ambience, whose solutions lead to significant societal benefits.	3 ▼	3 ▼	3 ▼

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (100)

Total Marks 100.00

2.1 Program Curriculum (30)

Total Marks 30.00

2.1.1 State the process for designing the program curriculum (10)

Institute Marks : 10.00

The mission of the Program Curriculum is to educate and prepare diverse learners to achieve scholarly, professional, and individual success within a local and global context. The College serves as a catalyst for innovation, economic development, lifelong learning, and civic engagement.

Proponents of Program Curriculum also investigate the relationship between curriculum theory and educational practice and the relationship between College programs and the contours of the society and culture in which Colleges are located. Curriculum represents all of the courses of study offered by an educational institution.

The curriculum design and development for all programs is done at least once every 2 years to ensure continuing suitability, adequacy and effectiveness in satisfying the requirements and the vision, mission and quality policy of the Institute.

Curriculum is designed to assist students' progress toward their goals, whether for immediate employment or transfer to another institution of higher education. Curriculum has been designed to meet the immediate employability skills and develop the entrepreneurial skills. Program curriculum design also considers the importance of multi physics and Inter-disciplinary engineering in practice. The design process includes assessing opportunities for improvement and the need for ensuring suitable employability, innovation and research & development. The impact of engineering applications on environment is also considered as a important factor and curriculum design has given greater importance in course preparation.

The Program Curriculum design is a process of intentionally crafting the architecture of the entire suite of learning activities and experiences that a student will undertake in order to successfully complete a program, courses or study component to achieve the stated learning outcomes.

A curriculum for understanding is intentionally designed around the organizing principles and essential concepts of the domain and provides opportunities for in-depth exploration in a variety of contexts. Such a curriculum emphasizes depth of understanding over breadth of coverage. It is designed to provide genuine opportunities for high-quality instruction and multiple domains in Mechanical Engineering.

The organization of curriculum plays a critical role in helping students reconstruct misconceptions and see connections between what they are currently learning and what they have learned before. Curriculum for understanding represents more than a collection of activities or bits of information: it provides for the holistic performance of meaningful, complex tasks in increasingly challenging environments.

A curriculum for understanding takes the shape of topical strands that are highly interconnected in ways that are consistent with the knowledge structure used by experts in tackling complex tasks in their discipline.

The curriculum is designed to be:

- learning-centered
- standards-based
- constructively aligned
- Career and future focus

Curriculum design begins with an understanding of the desired qualities of the graduate as defined by the various curriculum framing documents. These are articulated as program learning outcomes. Planning backwards from the program specific outcomes, program development teams detail the suite of aligned learning outcomes for study components and courses. This leads to a process of selecting or designing and sequencing courses, assessment and learning activities that will support student achievement of the learning outcomes. Program Specific Outcomes are the specific learning outcomes students will have achieved when they successfully complete a program. They are identified, mapped, taught, practiced and assessed with in each University program.



An Engineering curriculum for advanced study promotes learning with understanding:

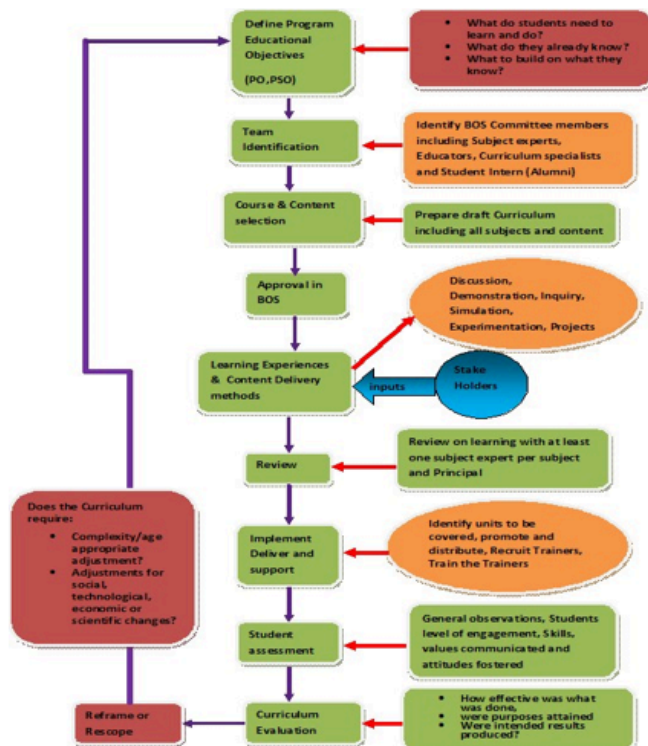
Structures the concepts, factual content, and procedures that constitute the knowledge base of the discipline around the organizing principles (big ideas) of the domain. Links new knowledge to what is already known by presenting concepts in a conceptually and logically sequenced order that builds upon previous learning.

Focuses on depth of understanding rather than breadth of content coverage by providing students with multiple opportunities to practice and demonstrate what they learn in a variety of contexts.

Includes structured learning activities that, in a real or simulated fashion, allow students to experience problem solving and inquiry in situations that are drawn from their personal experiences and real-world applications.

Develops students' abilities to make meaningful applications and generalization to new problems and contexts. Incorporates language, procedures, and models of inquiry and truth verification that are consistent with the accepted practice of experts in the domain.

Therefore, in designing a curriculum for understanding, the key concepts and processes of the discipline should be clearly identified, explicated, and organized in a coherent fashion around the big ideas. In addition, the interrelationships among topics should be clearly articulated to provide a framework teachers can use in developing and setting goals for their students' learning.



Flow chart of the Program Curriculum Design Process

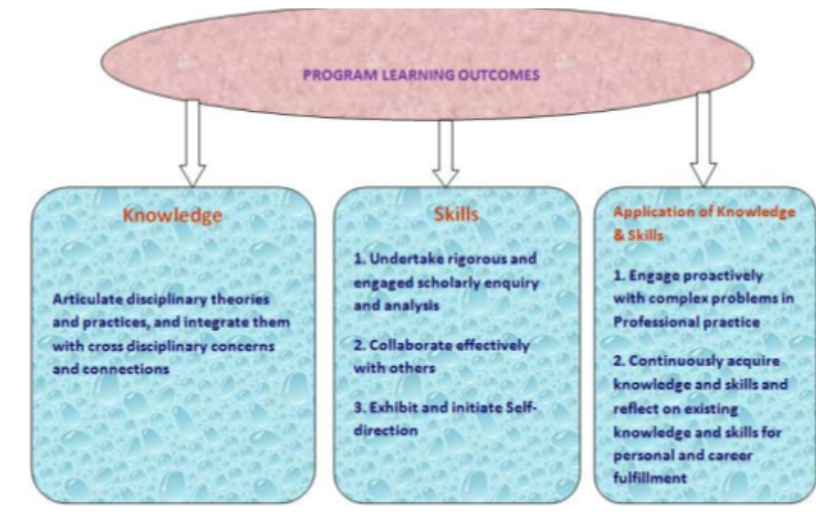
The program curriculum is designed and restructured by HOD along with all in house faculty members according to the guidelines. Before the BOS meeting a department meeting is conducted, scheme and syllabus is discussed considering the POs, PSOs and feedbacks from stake holders a draft is prepared to discuss the same during BOS meeting.

BOS meetings are regularly (minimum once in a year) conducted in the department. The BOS consists of in house faculty, experts from the industry, academic, university nominee, alumni and students.

The prepared draft is discussed and corrections/suggestions from BOS members are incorporated, thus a final program curriculum with scheme of evaluation will be ready to implement for that particular academic year. The list of electives is updated by adding more options under different streams.

Proceedings of the BOS meeting, scheme and syllabus are submitted for the approval in academic council meeting.

The program Learning Outcomes are shown in the following chart.



As per UGC norms, affiliated university JNTUH, Hyderabad has deputed university nominee to the department BOS committee. The details of department BOS committee and its responsibilities are mentioned below:


MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)

(Sponsored by CMR Educational Society)

Recognized under 2(f) and 12 (B) of UGC ACT 1956

(Affiliated to JNTUH, Hyderabad, Approved by AICTE - Accredited by NBA & NAAC – 'A' Grade - ISO 9001:2015 Certified)


DEPARTMENT OF MECHANICAL ENGINEERING

The BoS meeting for R20 B.Tech Mechanical Engineering, R22 M.Tech Thermal Engineering (TE) & R22 M.Tech Machine Design (MD) is held on 11th November 2022.

AGENDA of the meeting

1. Welcoming the distinguished members of the Board of Studies for the BoS meeting by the Head of the Department (Chairman of BoS)
2. Approval of the curriculum & syllabus of R20 B.Tech Mechanical Engineering III & IV Year B.Tech Mechanical Engineering.
3. Approval of the Course structure and syllabus of R22 M.Tech Thermal Engineering (TE) & R22 M.Tech Machine Design (MD) programs as per AICTE Model curriculum.
4. Review, discussion and approval of curriculum structure and syllabus R22 M.Tech Thermal Engineering (TE) & R22 M.Tech Machine Design (MD).
5. Suggestions and inputs by the members of the board.

COMPOSITION of BOS MEMBERS

S.No.	Name of the Person	Designation	Responsibility	Signature
1	Dr. Srikar Potnuru	Professor & Head ME	Chairman	
2	Dr. P. Prasanna JNTU Nominee	Professor, Department of Mechanical Engineering, JNTU	Member	
3	Dr. D.V. Srikanth Academic Council Nominee	Dean (Admin)& Head Dept. of ME, SMEC, Hyd.	Member	
4	Dr. K. Viswanath Allamraju Academic Council Nominee	Associate Professor & IQAC Associate, IARE, Hyderabad	Member	
5	Mr. L. Suresh Babu Industry Nominee	Managing Director, Rakshith Engineering Services, Hyderabad	Member	
6	Dr. PHV Sesha Talpa Sai	Professor & R&D Dean	Member	
7	Dr. Sandhya Rani	Associate Professor	Member	
8	Dr. T. Lokeshwara Rao	Associate Professor	Member	
9	Dr. D. Damodara Reddy	Associate Professor	Member	
10	Mr. Y. Dilip Kumar	Associate Professor	Member	
11	Mr. C. Daksheswara Reddy	Assistant Professor	Member	
12	Mr. P. Naresh	PG Student Nominee	Member	

Malsammaguda, Dhulapally, Secunderabad - 500100, Telangana State, India. **website: www.mrcet.ac.in**
 Contact: 9133555162 / 9133555183, E-Mail Id: mrcet2004@gmail.com; **EAMCET/ICET/PGECET Code : MLRD**



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)

DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF THE MEETING for Board of Studies Meeting for MECH held on

11-11-2022(B.TECH/M.TECH (MECH))

We, Malla Reddy College of Engineering & Technology, Department of Mechanical Engineering have conducted Board of studies (BOS) Meeting scheduled on **11-11-2022**.

1. Academic Course Structure for M.Tech (I Year) has been discussed at length and drafted for R22 Regulations. The College has adopted to follow their own course structure.
2. Detailed Syllabi for B.Tech (III/IV Years) programs has been discussed at length and drafted for R20 Regulations and the proposed syllabus has been agreed and no changes were suggested by the BOS members.
3. Vote of thanks by the Head of the Department.

LIST OF MEMBERS:

S.NO	NAME OF THE PERSON	DESIGNATION	RESPONSIBILITY
1	Dr. Srikar Potnuru	Associate Professor & Head, ME	Chairman
2	Dr. E. Ramjee JNTU Nominee	Professor, Department of Mechanical Engineering, UCESTH, JNTU Hyderabad.	Member
3	Dr. L. Suresh Kumar Academic Council Nominee	Assoc. Professor Dept. of ME, CBIT, Hyd.	Member
4	Dr. K. Viswanath Allamraju Academic Council Nominee	Associate Professor & IQAC Associate, IARE, Hyderabad	Member
5	Mr. P. Himakar Industry Nominee	Regional Manager, Ozone Overseas India Pvt. Ltd., Hyderabad	Member
6	Dr. PHV Sessa Talpa Sai	Professor & R&D Dean	Member
7	Dr. B. Sandhya Rani	Associate Professor	Member
8	Dr. K. Chandra Sekhar	Associate Professor	Member
9	Dr. D. Damodara Reddy	Associate Professor	Member
10	Dr. Y. Dilip Kumar	Associate Professor	Member
11	Mr. C. Daksheswara Reddy	Assistant Professor	Member
12	Mr. B. Likiteswar	PG Student Nominee	Member



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DEPARTMENT OF MECHANICAL ENGINEERING

The BoS meeting for R22 B.Tech Mechanical Engineering, R24 B.Tech Mechanical Engineering & R24 M.Tech Machine Design (MD) is held on 10th July 2024.

AGENDA of the meeting

1. Welcoming the distinguished members of the Board of Studies for the BoS meeting by the Head of the Department (Chairman of BoS)
2. Review, discussion and approval of the curriculum & syllabus of R22 B.Tech Mechanical Engineering III & IV Year.
3. Review, discussion and approval of the curriculum & syllabus of R24 B.Tech Mechanical Engineering I & II Year.
4. Review, discussion and approval of the curriculum & syllabus of R24 M.Tech Machine Design (MD) I & II Year.
5. Approval of the Course structure and syllabus of R22 B.Tech Mechanical Engineering, R24 B.Tech Mechanical Engineering & R24 M.Tech Machine Design (MD) programs as per AICTE Model curriculum.

COMPOSITION of BOS MEMBERS

S.No.	Name of the Person	Designation	Responsibility	Signature
1	Dr. Srikar Potnuru	Associate Professor & Head ME	Chairman	
2	Dr. E. Ramjee JNTU Nominee	Professor, Department of Mechanical Engineering, UCETH, JNTU Hyderabad	Member	
3	Dr. L. Suresh Kumar Academic Council Nominee	Asso. Professor Dept. of ME, CBIT, Hyd.	Member	
4	Dr. K. Viswanath Allamraju Academic Council Nominee	Associate Professor & IQAC Associate, IARE, Hyderabad	Member	
5	Mr. P. Himakar Industry Nominee	Regional Manager, Ozone Overseas Pvt. Limited, Hyderabad	Member	
6	Dr. PHV Sesa Talpa Sai	Professor & R&D Dean	Member	
7	Dr. B. Sandhya Rani	Associate Professor	Member	
8	Dr. K. Chandra Sekhar	Associate Professor	Member	
9	Dr. D. Damodara Reddy	Associate Professor	Member	
10	Dr. Y. Dilip Kumar	Associate Professor	Member	
11	Mr. C. Daksheshwara Reddy	Assistant Professor	Member	
12	Mr. B. Likiteswar	PG Student Nominee	Member	

Matsammaguda, Chulapally, Secunderabad -500100, Telangana State, India. Website: www.mrcet.ac.in
Contact: 9133555162 / 7207034237 / 9133555183, E-Mail Id: mrcet2004@gmail.com; EAMCET/ICET/PGEET Code : MLRD



2.1.2 Structure of the Curriculum (5)

Institute Marks : 5.00

ID	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theory Credits	Practical Credits	Total Credits
1	R20A0001	English	2	0	0	2	2	0	2
2	R20A0021	Mathematics – I	3	1	0	4	4	0	4
3	R20A0012	Engineering Physics	3	0	0	3	3	0	3
4	R20A0013	Engineering Chemistry	3	0	0	3	3	0	3
5	R20A0501	Programming for Problem Solving	3	0	0	3	3	0	3
6	R20A0083	Engineering Physics Lab	0	0	3	3	0	1.5	1.5
7	R20A0084	Engineering and IT Workshop	0	0	4	4	0	2	2
8	R20A0581	Programming for Problem Solving Lab	0	0	3	3	0	1.5	1.5
9	R20A0014*	Financial Institutions, Markets and Services	2	0	0	2	0	0	0
10	R20A0002	Professional English	2	0	0	2	2	0	2
11	R20A0022	Mathematics – II	3	1	0	4	4	0	4
12	R20A0261	Basic Electrical and Electronics Engineering	3	0	0	3	3	0	3
13	R20A0301	Engineering Graphics	2	0	2	4	3	0	3
14	R20A0502	Python Programming	3	0	0	3	3	0	3
15	R20A0081	English Language Communication Skills Lab	0	0	4	4	0	2	2
16	R20A0289	Basic Electrical and Electronics Engineering Lab	0	0	3	3	0	1.5	1.5
17	R20A0582	Python Programming Lab	0	0	3	3	0	1.5	1.5
18	R20A0003*	Human Values and Professional Ethics	2	0	0	2	0	0	0
19	R20A0303	Engineering Mechanics	3	0	0	3	3	0	3
20	R20A0304	Engineering Thermodynamics	3	0	0	3	3	0	3

21	R20A0305	Fluid Mechanics & Hydraulic Machinery	2	1	0	3	3	0	3
22	R20A0306	Metallurgy & Material Science	3	0	0	3	3	0	3
23	R20A0307	Computer Aided Machine Design	2	0	2	4	3	0	3
24	R20A0308	Theory of Machines	3	0	0	3	3	0	3
25	R20A0381	Fluid Mechanics & Hydraulic Machinery Lab	0	0	3	3	0	1.5	1.5
26	R20A0382	Computer Aided Machine Design & Dynamics Lab	0	0	3	3	0	1.5	1.5
27	R20A0008*	Global Education & Professional Career/NCC	2	0	0	2	0	0	0
28	R20A0309	Applied Thermodynamics	3	0	0	3	3	0	3
29	R20A0310	Strength of Materials	3	0	0	3	3	0	3
30	R20A0311	Data Structures using Python	2	1	0	3	3	0	3
31	R20A0312	Manufacturing Processes	3	0	0	3	3	0	3
32	RR20A0024	Probability and Statistics	3	0	0	3	3	0	3
33	OE I	Open Elective-I	3	0	0	3	3	0	3
34	R20A0383	Materials Testing & Manufacturing Processes lab	0	0	3	3	0	1.5	1.5
35	R20A0384	Data Structures using Python Lab	0	0	3	3	0	1.5	1.5
36	R20A0005*	Foreign Language - German	2	0	0	2	0	0	0
37	R20A0313	Computer Integrated Manufacturing Technologies	3	0	0	3	3	0	3
38	R20A0314	Thermal Engineering	3	0	0	3	3	0	3
39	R20A0061	Managerial Economics & Financial Analysis	3	0	0	3	3	0	3
40	PE I	Professional Elective– I	3	0	0	3	3	0	3
41	PE II	Professional Elective-II	3	0	0	3	3	0	3

42	OE II	Open Elective-II	3	0	0	3	3	0	3
43	R20A0385	Computer Integrated Manufacturing Technology Lab	0	0	3	3	0	1.5	1.5
44	R20A0386	Thermal Engineering and Energy Resources Lab	0	0	3	3	0	1.5	1.5
45	R20A0391	Application Development - I	0	0	4	4	0	2	2
46	R20A0007	Constitution of India	2	0	0	2	0	0	0
47	R20A0321	Heat Transfer	3	0	0	3	3	0	3
48	R20A0566	Artificial Intelligence & Machine Learning	3	0	0	3	3	0	3
49	PE III	Professional Elective-III	3	0	0	3	3	0	3
50	PE IV	Professional Elective-IV	3	0	0	3	3	0	3
51	OE III	Open Elective-III	3	0	0	3	3	0	3
52	R20A0387	Heat Transfer Lab	0	0	3	3	0	1.5	1.5
53	R20A0580	Artificial Intelligence & Machine Learning Lab	0	0	3	3	0	1.5	1.5
54	R20A0392	Application Development - II	0	0	4	4	0	2	2
55	R20A0006*	Technical Communication & Soft Skills	2	0	0	2	0	0	0
56	R20A0328	CAD/CAM	3	0	0	3	3	0	3
57	R20A0329	Mechanical Measurements & Instrumentation	3	0	0	3	3	0	3
58	R20A0330	Finite Element Analysis	3	0	0	3	3	0	3
59	PE V	Professional Elective-V	3	0	0	3	3	0	3
60	PE VI	Professional Elective-VI	3	0	0	3	3	0	3
61	R20A0388	Mechanical Measurements & Instrumentation Lab	0	0	3	3	0	1.5	1.5
62	R20A0389	Computer Aided Design and Simulation Lab -	0	0	3	3	0	1.5	1.5

63	R20A0393	Mini Project	0	0	6	6	0	3	3
64	R20A0337	Start-up, Innovation&Entrepreneurship	3	1	0	4	4	0	4
65	R20A0394	Major Project	0	0	20	20	0	10	10
		Total	123	5	88	216	118	42.0	160.0

2.1.3 State the components of the curriculum (5)

Institute Marks : 5.00

Course Components	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Basic Sciences	11.56	20.00	18.50

2.1.4 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

Institute Marks : 10.00

Program curriculum and syllabus is approved by Board of Studies and the assessment of the curriculum and syllabus is done by internal and external members. Feedback from Students, Parents, Recruiters, Industry, and Alumni are taken for indirect assessment. Mapping is performed for each assessment with POs and PSOs. From the direct and indirect assessment POs and PSOs are calculated.

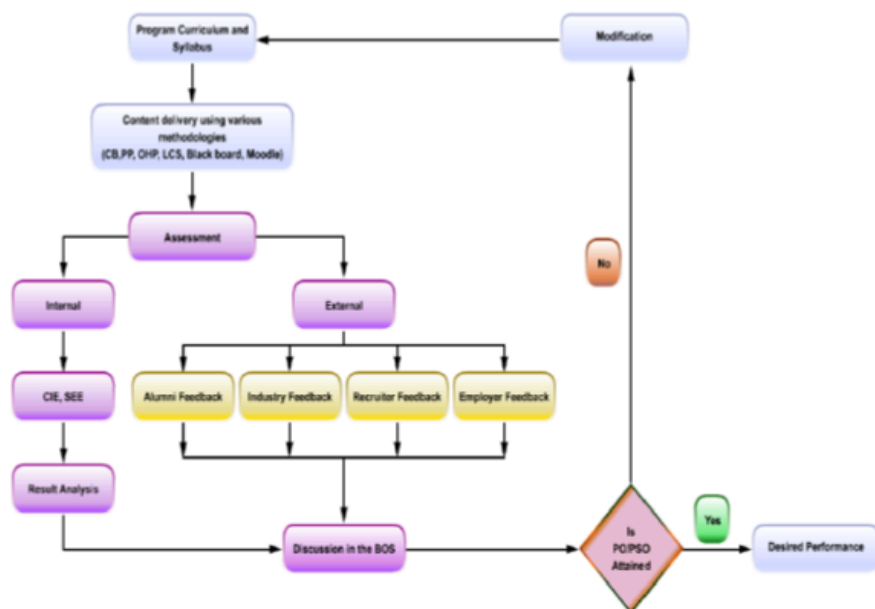


Fig 2.1.4 Process of identifying extent of compliance of the curriculum.

FEEDBACK FROM STUDENTS:

- Most significant role in the program.
- Third and final year students also members of the Board of studies in Mechanical Engineering.
- Their feedback is considered for improving curriculum.

FEEDBACK FROM INDUSTRY:

- Play a vital role in framing the program curriculum.
- Getting feedback from the industry people for curriculum and syllabi.
- Provide input for designing the program, establishment and PEOs/POs.

FEEDBACK FROM ALUMNI:

- Alumni are a measure of long-term success of the program.
- Their feedback helps in curriculum design to meet the need in Engineering and Technology.
- Recollect their existence during their stay in the institute and advice the department with necessary inputs with respect to students' career.

FEEDBACK FROM PARENTS:

- Parents are another important stakeholder for the academic Program. The parent constituency contributes by providing valuable suggestions and feedbacks.

FEEDBACK FROM RECRUITERS/ EMPLOYER:

- Their inputs will help to enhance the program curriculum such that the program outcomes are attained and it enables the students to face the challenges in recent trends.

CAY 2024 – 2025**Regulation R22**

Some of the measures and processes that have been implemented are detailed below.

- At the end of the semester, student feedback (on an anonymous basis) is taken for the quality of the course contents along with the course delivery specific for a faculty member. This enables the Department to make proactive changes to successive courses and functioning methods of the faculty.
- Unit tests are conducted to identify weak students at the beginning of the course. Tutorial classes and confidence building measures by the process of mentoring are provided to such students.
- The placement drive identifies performance gaps in the students. Such gaps are mitigated by providing training by way of Add-on courses and Soft skills which complement regular classes.
- One such gap identified was the lack of communication skills. Students have been found to exhibit interview phobia. This is being countered by giving them more practice during their communication lab on continuous basis.
- The subject expertise identified lack of knowledge in areas of computer coding using MATLAB. This curriculum gap is bypassed by taking content topics beyond syllabus and by providing sessions by renowned personalities from various institutions.
- Adequate changes have been introduced in the syllabus and the subjects to keep them abreast with technology changes.

The approach adopted is geared to facilitate development of an enquiring and analytical mind that learns how to learn on an ongoing basis integrating knowledge, skill and attitude. When actualized, this approach will take the student to a path of self-development that truly keeps the individual ever ready to learn from, and respond effectively to, situations as they arise.

Every prescribed subject will have a course outline and a detailed session plan, prepared by the teacher and approved by HOD -before the start of the semester. A copy of these documents will be given to the students at the start of the semester. The course will be conducted in accordance with the given timetable, course outline and session plan.

A full credit course is to be completed within 60 sessions of fifty minutes each. Up to 5 additional sessions per subject may be engaged to take care of any special needs. The students learning must encompass the entire syllabus of the subject by the end of the semester.

The teacher facilitates such learning by a judicious mix of pedagogical methods: Basic and central concepts, as well as complex aspects of the subject, are dealt with by the teacher in class; Students do the post-class assignments, so as to enhance their learning beyond what is done in the classroom.

The process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes is shown below:

1. Audio Visual Aids:

They are very powerful teaching tools. AV aids should be used to enhance the lecture by offering clarification of material in the lecture, and are particularly useful for students whose preferred learning style is visual. AV also stands for Added Value. So, AV aids help to attain POs effectively.

2.Black board Teaching

The Blackboard Learning System allows instructors to post course information and course materials, readings and assignments and provides functionality for basic discussion and other collaborative tools (from Blackboard) which in turn help to attain the defined POs

Type of Black board	Quantity	Source of Availability
Glass board	01	Department Classrooms
Digital Board	02	Department Classrooms
White boards	15	Department Labs Seminar Halls Tutorial Rooms HOD Room Faculty rooms

3. Regular assignments

Assignments help the students to better understand, analyze and improve the presentation of the given topic in the concerned subjects. As per JNTU curriculum, assignments are a part of program curriculum as per R18 and R20 regulation. But right from the inception of the department, assignments are included in the program curriculum to improve the students' understanding capabilities which in turn help to attain the defined Pos.

3. Continuous Evaluation

Student's academic performance is to be evaluated continuously and update to the students and parents to put them in the right direction in order to achieve their goals and defined POs of the program. In this aspect, Continuous Evaluation is powerful tool to attain and define POs (Sample Continuous Evaluation Form is included in the Annexure)

4. Tutorials

As per JNTU curriculum, tutorials are a part of program curriculum. The main purpose of having tutorials for most of the core engineering subjects is to apply the concepts of the concerned subjects learned in the regular classes and able to solve complex engineering problems related to that subject. This shows effect on Course outcomes which in turn helps to attain the defined POs.

5. Beyond the syllabus

The outcome of any program is to mould and nurture the student who can be an all rounder in all aspects be a successful engineer. This is possible if few additional instruments are added to bring the best of every student inherent intellectual talents. The following is the co-curricular activities designed by the department to achieve the defined POs which in turn help to attain PEOs

- a. Student Seminars
- b. Guest Lectures
- c. Industrial Visits
- d. Adjunct courses
- e. Workshops
- f. Conferences

6. Student Seminars

Seminars characteristically involve students and a member of the teaching staff. They provide an opportunity for active discussions on relevant topics. They make the students to develop transferable skills such as communication and team work. The topics on which the seminar is to be given will be intimated to the students well in advance and their performance will be evaluated and finally the best seminar from the class will be selected and a "**Certificate of Appreciation**" will be given which will be an added value to their career.

7. Guest Lectures

In order to bridge the gap between the Institute and Industry, the department organizes Guest Lectures in every subject by eminent personalities who are in and around Hyderabad.

Malla Reddy College of Engineering and Technology was affiliated to JNTU, Hyderabad and our program curriculum and syllabus was given by JNTUH.

The Curriculum maintained the balance in the composition of basic science, engineering sciences, humanities and social sciences, program core, program electives, open electives, projects, internship/seminars and their distribution in core and electives.

The number of contact hours per week was based on the credit allotted to the course. Curriculum and syllabi of the program were revised by JNTU, Hyderabad.

A curriculum mapping can be conceptualized as an analysis of the provision of opportunities for learning in a curriculum in relation to the curriculum's intended learning outcomes.

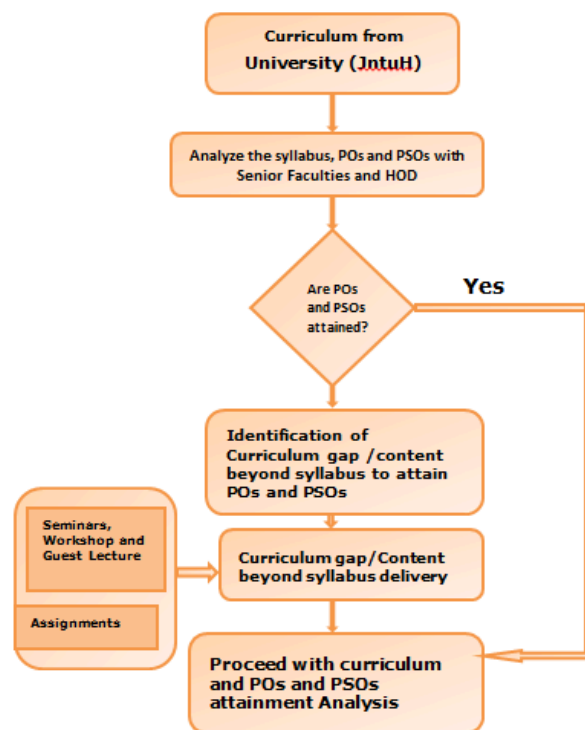
The requirements of the various industries, current developments in the fields of science, engineering and technology, and the specific needs of the society, decide new courses to be included in the curriculum. There was also a provision in curriculum to offer specialized elective course.

"Gap Analysis" was carried out by stakeholders (Alumni, Employers, Eminent Academician, Industry Experts, HOD and Senior Faculty members).

If some components, to attain CO's/ PO's, are not included in the curriculum provided by the affiliated university then the department makes additional efforts to impart such knowledge by covering the contents through "CONTENTS BEYOND SYLLABUS".

Course Assessment based on POs and PSOs is measured by Review committee

We add content beyond syllabus by proper "GAP analysis" process. The following Fig reveals the process of Curriculum Gap analysis



The institute has hosted industry professionals and invited them to deliver guest lectures on contemporary topics so that our students benefit from the latest trends in industry. The outputs of some of these interactions are delineated below: The industry professionals believe that one of the foremost reasons why there is a gap between industry requirements and academic delivery is that there is no updating of management syllabus at regular intervals. Pedagogic interventions in academia need periodic inputs from the corporate world. Technology is advancing at a scorching pace today and the impact is being felt by

business and industry. In such a situation, students have to be exposed to the expectations that the industry might have from them. Academic world is increasingly being battered by digital disruptions – engaging students is becoming an onerous task. The institution has to encourage creative methods by faculty members so that students become effective learners. Industry expectations are now at an all-time high and therefore interactions between industry and academia have to be more frequent. Some professionals also felt that faculty should also be exposed to interactions with industry and use the experience to improve their classroom delivery.

The identified gaps are covered by conducting various programs through

- Library/internet assignments on contemporary issues.
- Pre-placement Training
- Training on Soft skills and value add programs
- Creative /Project Contests
- Guest lecturers/Seminars
- Workshops/conference
- Industrial Visits and internships
- Symposiums/Intra department technical activities

Mapping of content beyond syllabus with POs and PSOs: R20

S. No	Gap	Action taken	Resource Person With designation	%of students	Relevance to POs, PSOs
1.	R&AC	Heating ventilation and Air conditioning	Mr. Charan Basireddy, Sr Design Engineer(HVAC)	94%	PO1,PO2,PO3,P05/PS01,PS02
2.	FEM	Integration of Design & Manufacturing	Hari Adayalli CYIENT Limited Hyderabad	93%	PO1,PO2,PO3,P04,P05/PS01
3.	DHPS	Hydraulics and Pneumatics systems	Janardhan Hunusnabale MOOG India Technology Bengaluru	90%	PO1,PO2,PO3,P04,P05/PS01,P03
4.	RES	Solar, Wind and other forms of energies.	Mr. Prasada Rao Managing Director Winwill Technologies, Hyderabad	94%	PO2,PO3,P06,P07/PS01,PS03
5.	CIMT	CAE Practices in i4.0	Mr G Ratna Prasad National Head & Technical Manager Softcell Technologies Bengaluru	92%	P06,P04,P03

8. Industrial Visits

It is important for the students to keep themselves abreast of changes taking place in the industry. To meet this end, department regularly organizes Industrial visits. Few of them are shown below

S.no	Name of the Industry/Organization
1	Diesel Loco Shed, <u>Maulaali</u> , Secunderabad, SCR, Hyderabad
2	Electric Loco Shed, <u>Lallaguda</u> , Secunderabad, SCR, Hyderabad
3	Carriage Work shop, <u>Kharkhana</u> , SCR, Hyderabad
4	T-Works, <u>Gachibowli</u> , Hyderabad.
5	ALEAP WE HUB, <u>Gajularamaram</u> , Hyderabad.

LOCOMOTIVE WORK SHOP SCR

The Workshop was established on 30th September 1893, under the aegis of "THE NIZAM GUARANTEED STATE RAILWAYS" for undertaking periodic overhauling and repairs to BG and MG steam locomotives, coaches and wagons.



Impact Analysis of Industrial training/internship

- Students are exposed to real time practical experience of the subjects studied in the classrooms and realized the practical importance of the subjects.
- Industrial training inculcated more interest in the subjects.
- Students are inspired to do hard work and get placed in such industries.
- Communication skills of the students improved
- Students were exposed to the industry standards and workplace culture, the importance of being punctual and meeting the deadlines.

9.Workshops

To make efficient engineers is our goal and academic endeavor. With conventionally syllabi having limited practical exposure, our value-added workshops offer students to enhance their skills and add to their knowledge base without having to seek training off- campus.

1. Examinations are planned and announced before the commencement of the semester classes, evaluated answer scripts are returned within five days and week students are monitored and mentored. The same is informed to the parents. By this process the course outcome attainment is monitored and intern achieves the PO.
2. Subject wise quizzes are organized and conducted among the students of the class.
3. Laboratory exams, mini projects and main projects contribute to the assessment of practical skills which reflect the ability of students to implement ideas and techniques.
4. Reports, oral presentation and viva-voce contribute to the assessment of overall communication skills and dissemination of ideas.

5. These assessments are carried out periodically and hence allow the faculty members to monitor and provide attention to the students who may not be attaining the PO's to the required level.

6. This ensures that all students attain the minimum level of each programme outcomes.

List of Workshops:

S. No	Academic Year	Name of the event	Date
1	2024-2025	Expert talk on Motivational Session by Successful Start-Up Founder	07 th November 2024
2		Two Days Workshop on Machine Learning	1 st -2 November 2024
4		One Day Seminar Intellectual property rights and IP management for start up	03 rd May 2024
5		3 Days Workshop – Hands on workshop on drone technologies	26 th -28 th , March 2024
6		One Day Workshop on the future of work adopting to remote and flexible models	02 nd March 2024
7		Four Days Workshop on CATIA V5	29 th January- 1 st February 2024
8		Conducted One Day Workshop on Design Thinking, critical thinking and Innovation Design	24 th February 24
9		One Day Seminar on Customer Centric Business Building and Retain a loyal user base	13 th February 24
10		One Day Seminar Conducted on Pollution Control	05 th December 23
11		One day Workshop on Entrepreneurship and Innovation as Career Opportunity	09 th November 2023
12	2023-24	Four Days Workshop on CATIA V5	29 th January- 1 st February 2024
13	2022-23	Two Days Hands on Workshop on Advance Mechatronics	20-21 DEC, 2022
14		One day Training on Gate	20 th March 2023
15		Two Days Workshop on AUTOCAD	6 th -7 th March 2023
16		One Week Workshop on ANSYS	26 th June- 1 st July 2022
17		Three Days Workshop on AUTOCAD-I Years	31 st August- 2 nd September 2022
18		Three Days Workshop on CATIA-III years	4-6 th September 2022
19	2021-22	One Day Workshop on Fusion 360	9-10 th January
20		Workshop on Advanced AUTOCAD	23-29 th August
21		One Day Workshop on 3D Printing	6-7 th October

2.2 Teaching-Learning Processes (70)

Total Marks 70.00

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (15)

Institute Marks : 15.00



The success of the teaching-learning process depends on the teacher's knowledge and the teacher's ability to transfer the same to the students by the various methods of teaching.

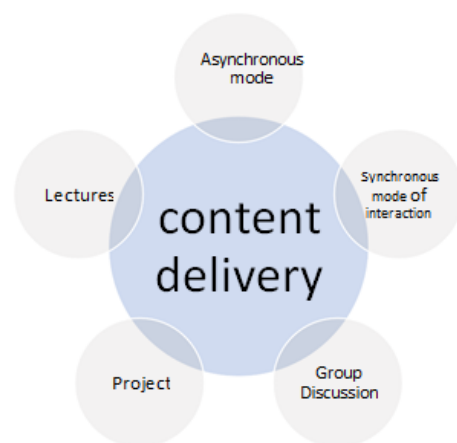
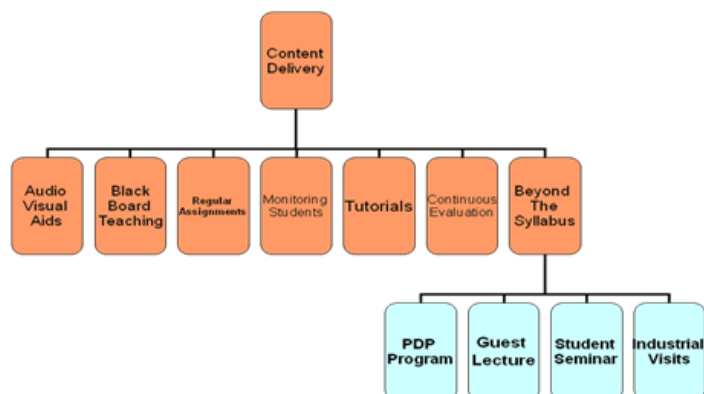
Teaching learning process adopted in the department is shown in below Figure.

- Principal, Dean of Academics and Examinations, and Controller of Examinations prepare the academic calendar well in advance before the commencement of semester. The academic calendar outlines the total number of instructional days and proposed schedule of internal and external examinations and it is available in the notice board for the view of students and it is also available in college website for the view of students, parents and faculty members.
- The subjects are to be divided into two categories, which are theoretical and mathematical. Then, the faculty members are requested to give their preferences (at-least 3 subjects) in each category. With that list, the HOD & Director finalizes the subjects by considering the specialization of the staff, experience and other workload of staff etc. The subjects are allocated well in time so that the faculty can prepare the course plan consisting of course delivery methods, assessment plan, assignment frequency. And the same is monitored by the HOD before commencement of the class. Weekly progress is monitored and reported to Dean Academics.
- The time table is framed by the Department Timetable Committee consisting of 2 senior faculty members based on academic calendar and subject allocation, it has to be approved by the HOD and principal. The primary requirement of the timetable is to ensure that it enables students to complete core units in a course level, to satisfy course rules and to complete elective combinations that are specified by course regulations to fulfill the requirements of the award.
- Teaching activities will be scheduled at times and in places that are consistent with:
 - Facilitating student attendance and maximizing student choice
 - The use of specialist teaching space for its designated purpose.
 - Occupational health and safety and fire code regulations (e.g. room capacity restrictions, staff working conditions) .
 - Utilizing teaching space and resources effectively and efficiently, consistent with allocations being equitable for staff and students and compatible with pedagogic requirements.
 - Activities will be scheduled in patterns that produce manageable teaching times for staff and allow staff appropriate time for other activities such as research, administration and post-graduate supervision.
- Teaching plans for each and every course are prepared by the faculty. Whole syllabus is divided into 5 units per the teaching scheme prescribed by the university and college. The course objectives and course outcomes are defined for each course.
- A successful Teaching plan addresses and integrates these three key components
 - Objectives for student learning
 - Teaching-Learning Activities
 - Strategies to check Student Understanding

- The faculty prepares the lecture schedule well in advance indicating each topic to be covered and proposed date of completion of each module. The status of the syllabus coverage is being monitored fortnightly by the head of the department and sent to the principal for taking necessary steps for the completion of syllabus in time.
- The traditional way of teaching methodology i.e., black board and chalk is being adopted. The faculties make use of the ICT facilities available in the department to teach effectively and use the power point presentations for visualizing the components/ parts/ machineries which are in real world. Models are being shown to the students to create learning environment wherever necessary so as to have an overview about the topics.
- Every faculty member should have the Class management.
 - a. *Create a positive learning environment that students feel safe.*
 - b. *Manage class time most effectively.*
 - c. *Engage students in lectures thus boosting confidence.*
 - d. *Organized learning opportunities.*
 - e. *Manage classroom resources in an effective manner*
- Faculties are using SMART class room to provide interactive session. Projector is used for demonstration, video (NPTEL), audio of classes.
-
- Following are some additional pedagogical initiatives taken by the department in addition to Chalk &Talk, Lectures, assignments, power point presentation, and tutorials.
 - Role Play
 - Working model/Visual charts/ videos
 - Analogy with live examples from industries and surroundings
 - Lecture interspersed with discussions among students
 - E-tutorial
 - Group assignments and projects.
- The College has required number of computers, printers, LCD projectors, application software's and system software's. These are effectively used for teaching. The students are also encouraged to develop the knowledge on software's.
- Lecture Notes provide a record of the lecture content. It is prepared for all the Subjects by the concerned Faculty members teaching the specific subjects. It helps the students to learn and remember the ideas and facts presented. Reorganized or edited notes may form the basis for integrating all course materials and information. Notes encourage the students to take an active thinking part in the lecture and to do reference. It is also important to specify the references at the end of each topic for clarity and information.
- Periodical Assignments are given by the faculty in the respective subjects for their knowledge improvement and evaluation at the end of every unit and these has to be submitted within the due date in order to assess the performance of the students in the respective CO's
- The performance of the students is assessed on a continuous basis by conducting two internal tests per semester. In addition to the tests, assignments, quizzes are also carried as a part of internal evaluation. Course file consists of academic calendar, class timetable, course syllabus, lecture schedule, teaching material (PPT/OHP etc), Lecture notes, assignment questions, tutorial sheets, internal examination question papers, external examination question papers and question bank for higher studies preparation.
- Slow learners will be identified based on the performance of the student in internal exams and regular monitoring by the mentor. Under the HOD direction, the student's mentors evaluate the progress card of those students who score below 60% marks in all subjects

Weak Student support strategy

- a. Remedial classes are conducted for the slow learners to improve academically by doing more number of hand-outs in numerical subjects.
- b. Regular counseling and providing moral support to them.
- c. Encouraging them towards study through peer tutoring.
- d. Encouraging them for regular attendance.
- e. Proper guidance given to weak students through remedial support to clear their backlogs.
- f. Constant monitoring their performance in internal tests.
- g. Extra classes arranged for backlog subjects if needed.
- h. Intimating parents to counsel their wards.

Content Delivery Methods:**1. LECTURES INTERSPERSED WITH DISCUSSION**

The class room lectures are interspersed with discussion. This method helps students to discuss their views and ideas with their peers and the faculty for clarifying any doubts, as well as for better understanding of the concepts. For the students to be aware of the topic for discussion in the class room, the department gives handbooks at the beginning of the semester where in the session plan of every subject is included which guides the student to follow day to day classes.

Effectiveness of the method for the attainment of the PO

Examples for each topic in the real world context are delivered which helps the students to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Each lecture is followed by a group discussion which helps the students to communicate effectively. Each class improves their knowledge of contemporary issues.

POs Attained: PO3, PO4, PO5, PO6, PO7, PO10, PO11, PO12

2.ASYNCHRONOUS MODE OF INTERACTION:

In this mode of delivery there is no real-time interaction with the student.

Advantages of asynchronous interaction

Flexibility: information can be accessed at any time from anyplace;

Time to reflect: learners can give a reply to the problems raised when they're comfortable with the topic

Anonymity and pseudonymity: as the face-to-face interaction is lacking, the shyer learners feel less pressure and thus their contribution to the discussion might be of a better quality.

Situated learning: the learners can apply the theories from the studied course in their own working environment;

Cost-effective: all a learner needs is a computer and a decent internet connection.

Learner-learner: quality of interaction improves due to the learner having enough time to process the topics and respond in a meaningful way ("higher order thinking skills occurring");

Learner-instructor: instructor can focus on the learner's needs;

Learner-content: learner has time to digest the contents; learner is able to access online notes (written by all course participants).

Examples of asynchronous interaction

CD-ROMs, - e-mail, - bulletin boards (online forums), - newsgroups (information is received via newsfeeds), - web pages, - computer conferencing, IRC – Internet Relay Chat (chat rooms), - instant messaging, - fax, - audiotape / videotape, - collaborative work spaces (information available to multiple users that can be added on or modified by the users themselves), - blogs (weblogs)

Among the above examples, we adopt CD-ROMs, e-mail, audiotape/videotape, blogs mode of asynchronous interaction. Course materials, expert lecture notes are given to students through CD-ROM. Video; audio lectures of experts are distributed to students, through which they can listen to lectures for better understanding of complex concepts more than once. The department faculty has their blogs in which they post the course material, assignments. E-mail helps both student and faculty to be in contact asynchronously for learning and instructing. These modes help even a shy student, lack of effective oral communication student to contribute their views, present their assignments through sample applications designed by them and finally to clarify doubts, share and exchange their ideas with faculty. Through this mode they can be in contact with faculty even after the program and engage themselves in life-long learning.

Effectiveness of the method for the attainment of the PO.

Queries and clarifications through this mode helps the students to design a system, component, or process to meet desired needs and apply the techniques, skills, modern tools to formulate, analyze and solve multi-disciplinary problems. This mode of interaction helps the students to improve their communication and professional ethics while responding through mails.

POs Attained: PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10

3.Synchronous Interaction:

This mode of interaction is delivered by having real-time interaction with the student.

Advantages of synchronous interaction

Stimulate motivation: via real-time interaction and ability to see and hear the classmates;

Interactive participation: step by step instructions can be given and followed in real time;

Immediate feedback: from both learners and instructor, thus allowing brainstorming of ideas, case-study analysis, debates and project work;

User-friendly technological tools for effective learning: only basic skills needed;

Cost and time saving: no real venue for the class needed.

Examples of synchronous interaction

Real-time audio, - application sharing (learners can add, make changes or delete info on a shared software application),- voice and videoconferencing,- share whiteboards and live presentation tools,- live assessment testing and voting,- audience control tools

Impact of synchronous interaction

Learner-learner: the larger the group, the less interactivity possible; **Learner-instructor:** only “lower thinking skills can be achieved”; **Learner-content:** learners need to contribute and participate.

Among the above mentioned examples we adopt effectively black/green/white boards which is analogous to the Lecture interspersed with discussion listed above. We use live presentation tools like OHP and LCD projectors for effective interaction. This mode of interaction allows the faculty to collect immediate feedback and thus allowing for clarification, analysis of students ideas. Larger the group, lesser the interaction possible. To countermeasure this problem, we adopt tutorials apart from regular lectures, where the number of student group is limited to have one – to –one interaction.

Effectiveness of the method for the attainment of the PO

Concepts for each topics with real time interaction through presentation modes helps the students to design a system, component, or process to desired needs within realistic constraints. Each lecture is followed by questioner session to collect feedback to analyze the level of attainment of PO.

PO Attained: PO2, PO3, PO5, PO6, PO7, PO10, PO11, PO12

4.Group discussion:

Group Discussion is a process where exchange of ideas and opinions are debated upon. Adopting this method helps students to know what to do/remember and what not to do/remember in GD. For example they should be assertive but in a polite manner with expression in voice. Be calm but not quiet. Clarity in the thoughts. Appear pleasant with the other participating members. Be logical while answering or questioning anything. Adopting this method helps students to face personal interviews with more ease.

Effectiveness of the method for the attainment of the PO

Case studies can be discussed. Queries and answers through this mode help the students to analyze and interpret to meet the requirements. This mode of interaction helps the students to improve their communication and professional ethics during discussion.

PO Attained: PO5, PO6, PO7, PO11

5.Project:

Projects are often done in poster format, but faculty can also use their imagination to experiment with the form for content delivery.

Common characteristics of the projects

Hard work: Each project is the result of a lot of hard work. The authors of the projects have found information about their topic, collected or drawn pictures, written down their ideas, and then put all the parts together to form a coherent presentation.

Creativity: The projects are very creative in terms of both content and language. Each project is a unique piece of communication, created by the project writers themselves.

Personal: This element of creativity makes project work a very personal experience.

Adaptable: Project work is a highly adaptable methodology. It can be used at every level from absolute beginner to advance and with all ages.

Effectiveness of the method for the attainment of the PO

Examples for complex topic in the real world context are delivered in the form of projects which helps the students to design a system, component, or process to meet desired needs within realistic constraints.

PO Attained: PO3, PO4, PO5

Modes of Content Delivery	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Lectures interspersed with discussion			✓	✓	✓	✓	✓			✓	✓	✓
Asynchronous mode of interaction		✓	✓	✓	✓	✓	✓	✓	✓	✓		
Synchronous interaction		✓	✓		✓	✓	✓			✓	✓	✓
Group discussion					✓	✓	✓				✓	
Projects			✓	✓	✓							

Collaborative Learning

There is considerable evidence that collaborative work can help students learn, especially if students with high ability work with students with low ability (Webb and Palincsar, 1996). Collaboration seems especially helpful to lower ability students, but only when they work with more knowledgeable peers (Webb, Nemer, Chizhik, and Sugrue, 1998). Building on this research, integrated instructional units engage students in small-group collaboration as a way to encourage them to connect what they know (either from their own experiences or from prior instruction) to their laboratory experiences. Often, individual students disagree about prospective answers to the questions under investigation or the best way to approach them, and collaboration encourages students to articulate and explain their reasoning. A number of studies suggest that such collaborative investigation is effective in helping students to learn targeted scientific concepts (Coleman, 1998; Roschelle, 1992). The assumption is that if students collaborate and such collaborations are effective in supporting their conceptual learning, then they are probably learning collaborative skills, too.

Feedback Analysis

Evaluation is an integral part of the education process. Teachers evaluation has come to be known worldwide as a useful input to improve the quality of the teaching. These systems for evaluating teaching and course quality in education have long been established in the Western world but not used very effectively in our country. Recently, there has been a growth of interest in this area from a range of different perspectives driven both internally by institutions themselves and externally by national quality initiatives.

While there are a large number of possible sources of feedback and evaluation data on teaching, the most common source of input for teaching evaluation is feedback from the students. In fact, student ratings is a necessary source of evidence of teaching effectiveness and obtaining student's feedback is a routine practice in most of the institutions.

Student's feedback is an effective tool for teachers evaluation resulting in faculty development. The feedback students provide about teaching on their end-of-semester course evaluations can be valuable in improving and refining the teaching of a faculty.

Soliciting *mid-semester* student feedback has the additional benefit of allowing the faculty to hear students' concerns while there is still time in the semester to make appropriate changes. The feedback was then analyzed by a two-member committee consisting of HOD and Director. After the analysis, the strength and weaknesses of the teachers were summarized to the concerned Faculty member. For 3 months, all the teachers were given equal opportunity to teach and interact with the students. Again after three months a questionnaire was given to both the students and faculty to assess any improvement in the teaching skills and its impact on the students.

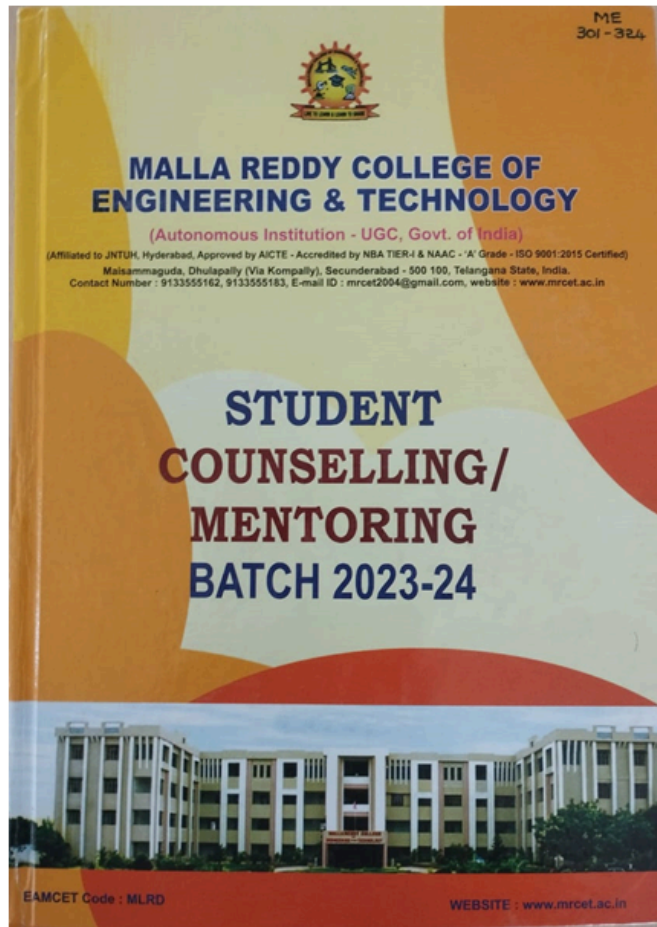
Teaching activities will be scheduled at times and in places that are consistent with:

MALLAREDDY COLLEGE OF ENGINEERING AND TECHNOLOGY										
STUDENTS FEEDBACK FOR THE ACADEMIC YEAR 2024-2025										
B.TECH		YEAR - Branch:		SECTION:						
Appeal to the students - your valuable feedback about the course will be of great helpful to the department to enhance the quality of teaching & learning proces.kindly give your rating for all the items listed for the subjects mentioned. The rating is with respect to 5 point scale as given below.										
5- Excellent		4 - Very Good		3 - Good		2 - Satisfactory		1 - Below Average		
S.No.	Subjects	Faculty Name	Subject Knowledge	Lecture Material/Notes	Presentation Skills	Students Motivation	Command over the Class	Regularity / Punctuality	Assignment / Question Answer Sessions	Overall Rating
1										
2										
3										
4										
5										
6										
7										
8										

Student Mentoring:

"Mentors are advisors, people with career experience willing to share their knowledge; supporters, people who give emotional and moral encouragement; tutors, people who give specific feedback on ones performance; masters, in the sense of employers to whom one is apprenticed; sponsors, sources of information about and aid in obtaining opportunities; models, of identity, of the kind of person one should be to be an academic."

MRCET College maintains the student Mentoring Book for all years.



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution - UGC, Govt. of India)
Sponsored by CMR Educational Society
(Affiliated to JNTU, Hyderabad, Approved by AICTE, Accredited by NBA, ISO 9001:2015 Certified)
Mamamagadda, Draperpet (Vijayapuri), Secunderabad - 500 100, Telangana State, India.
Contact Number: 9122831162, 9122831163, E-mail ID: mrcet@gmail.com, website: www.mrcet.ac.in

STUDENT COUNSELLING / MENTORING
BATCH - 2023 2024

Student Name: ENRATCHULA, ADEENAVU, CHUDU
Roll Ticket No: 2325AC0301 Class: Mamamagadda
Date of Birth: 14/04/2004 General (Male/Female): Male
Category: BC (A/B/C/D)/SC/ST/OC/EBC/PH/Other
Blood Group: B+
Mode of Transportation: RTC / College Bus / Own Transport / Campus Hostel
RANKET / IET: Hall Ticket No. 2325C02789 Rank: 104002
Author Number: 3324 4833 7547
Address for Communication: 2-2-160, Ramayana Park Street, Nagole, Hyderabad, Telangana-500048
Id No. (Res.) / Mobile: 8125569811
E-Mail Id: enratchulaadeenav@gmail.com
Skills required: Soft Skills / Presentation Skills / Written / Oral Communication

PARENT DETAILS

Name	Occupation	Designation	Organization	Phone No.
Father: <u>A. Venk. Sagar Goud Surveer</u>				<u>9848106102</u>
Mother: <u>P. Saritha</u>	<u>Housewife</u>			<u>9848106102</u>

ACADEMIC PERFORMANCE

Name of the Board	Name of the School / College	Year of Passing	Medium of Study	% of Marks
10 th Class (SSC/CBSE)	<u>State the School</u>	<u>2021</u>	<u>English</u>	<u>100%</u>
Intermediate / Diploma	<u>Narayana Jr. College</u>	<u>2021</u>	<u>English</u>	<u>86.75</u>

STATE OF THE CANDIDATE - STUDENT
10th & 12th Class

Subject	Grade	Grade Point	Grade	Grade Point
English	A	3.00	F	2
Mathematics	A	3.00	F	2
Physics	A	3.00	F	2
Chemistry	A	3.00	F	2
History	A	3.00	F	2
Art / Music / Sports	A	3.00	F	2
Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

12th Class (Intermediate)

Subject	Grade	Grade Point	Grade	Grade Point
English	A	3.00	F	2
Mathematics	A	3.00	F	2
Physics	A	3.00	F	2
Chemistry	A	3.00	F	2
History	A	3.00	F	2
Art / Music / Sports	A	3.00	F	2
Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

10th & 12th Class (Intermediate)

Subject	Grade	Grade Point	Grade	Grade Point
English	A	3.00	F	2
Mathematics	A	3.00	F	2
Physics	A	3.00	F	2
Chemistry	A	3.00	F	2
History	A	3.00	F	2
Art / Music / Sports	A	3.00	F	2
Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

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Chemistry	A	3.00	F	2
History	A	3.00	F	2
Art / Music / Sports	A	3.00	F	2
Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

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Practical	A	3.00	F	2
Project	A	3.00	F	2

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Project	A	3.00	F	2

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Project	A	3.00	F	2

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Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

10th & 12th Class (Intermediate)

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Mathematics	A	3.00	F	2
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Practical	A	3.00	F	2
Project	A	3.00	F	2

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English	A	3.00	F	2
Mathematics	A	3.00	F	2
Physics	A	3.00	F	2
Chemistry	A	3.00	F	2
History	A	3.00	F	2
Art / Music / Sports	A	3.00	F	2
Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

10th & 12th Class (Intermediate)

Subject	Grade	Grade Point	Grade	Grade Point
English	A	3.00	F	2
Mathematics	A	3.00	F	2
Physics	A	3.00	F	2
Chemistry	A	3.00	F	2
History	A	3.00	F	2
Art / Music / Sports	A	3.00	F	2
Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

10th & 12th Class (Intermediate)

Subject	Grade	Grade Point	Grade	Grade Point
English	A	3.00	F	2
Mathematics	A	3.00	F	2
Physics	A	3.00	F	2
Chemistry	A	3.00	F	2
History	A	3.00	F	2
Art / Music / Sports	A	3.00	F	2
Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

10th & 12th Class (Intermediate)

Subject	Grade	Grade Point	Grade	Grade Point
English	A	3.00	F	2
Mathematics	A	3.00	F	2
Physics	A	3.00	F	2
Chemistry	A	3.00	F	2
History	A	3.00	F	2
Art / Music / Sports	A	3.00	F	2
Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

10th & 12th Class (Intermediate)

Subject	Grade	Grade Point	Grade	Grade Point
English	A	3.00	F	2
Mathematics	A	3.00	F	2
Physics	A	3.00	F	2
Chemistry	A	3.00	F	2
History	A	3.00	F	2
Art / Music / Sports	A	3.00	F	2
Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

10th & 12th Class (Intermediate)

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Health & Physical Education	A	3.00	F	2
Practical	A	3.00	F	2
Project	A	3.00	F	2

10th & 12th Class (Intermediate)

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10th & 12th Class (Intermediate)

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10th & 12th Class (Intermediate)

Subject	Grade	Grade Point	Grade	Grade Point
English	A	3.00	F	2
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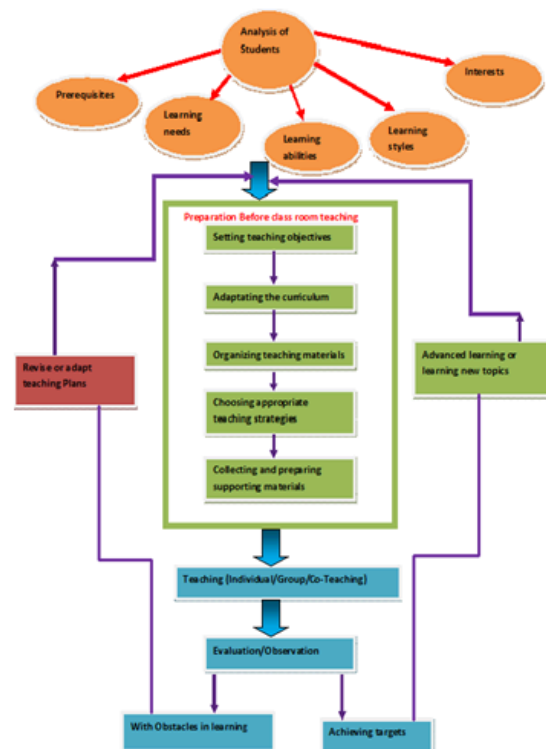
Historically, laboratory experiences have been separate from the flow of classroom science instruction and often lacked clear learning goals. Because this approach remains common today, we refer to these isolated interactions with natural phenomena as “typical” laboratory experiences. Reflecting this separation, researchers often engaged students in one or two experiments or other science activities and then conducted assessments to determine whether their understanding of the science concept underlying the activity had increased. Some studies directly compared measures of student learning following laboratory experiences with measures of student learning following lectures, discussions, videotapes, or other methods of science instruction in an effort to determine which modes of instruction were most effective.

Laboratory Experiments

- In the laboratory course the students are formulated as a batch comprising of 3 to 4 members. Each batch performs all the experiments in the laboratory in a systematic way. After the experimentation the data is being recorded and analyses the data. Based on the results the performance of the students is evaluated and the day to day assessment is recorded in the sheets. Record marks for each experiment is also recorded in the sheet. Viva voce is conducted for each student to assess the knowledge of theoretical concept during experimentation.
- As per the guidelines 10 experiments are mentioned in the syllabus. Laboratory manual explaining the details of the experiment, designing issues are available with the course teacher and are provided to students at the commencement of the semester.
- The entire faculty handling laboratory work is encouraged to introduce new experiments which are beyond curriculum and are oriented towards R & D.
- Well-equipped lab and updating the practical as per the latest technologies helps the student to update himself.
- Higher version equipment with latest standard software helps to teach the students to analyse the data as per the industrial standards.

Remedial Classes

Each student is different in terms of learning ability, academic standards, classroom learning and academic performance, and has his own learning. Individualized educational programmes with intensive remedial support is effectively planned to help students consolidate their basic knowledge in different subjects, master the learning methods, strengthen their confidence and enhance the Throughout the teaching process, the faculty should provide systematic training to develop students generic skills including interpersonal skills, communication, problem solving, self-management, self-learning, independent thinking, creativity and the use of technology. Such training will lay the foundation for lifelong learning, help them develop positive attitudes and values as well as prepare them for future studies and career.



Flow Chart of the Process followed to assist weak students

Steps taken to encourage advanced learners:

Excellent academic performing students are identified on the basis of internal assessment, university examination, and involvement in

- Students are encouraged to be members of professional bodies like IEEE, IETE, AMIE and organize technical events.
- They are also advised to participate in group discussions, technical quizzes to develop analytical and problem-solving abilities in them and thereby to improve their presentation skills.
- Various activities are conducted by all the departments in the respective areas to mould the students in corresponding field. NPTEL session is conducted for the entire subject for tough topics.
- Students are encouraged to take up micro projects to inculcate research orientation and practical awareness in the 2nd year apart from the regular mini and major projects.
- Students are also provided opportunities to develop their creativity by participating and organizing intercollegiate as well as national level technical symposiums.
- Bright and diligent students are motivated and inspired to get university ranks.
- Students are encouraged to take up competitive exams like GATE, GRE, TOEFL, IELTS, CAT, PGECET etc
- Semester toppers and university rank holders are encouraged with certificates and cash prizes by the management on the college Annual day held every year in the month of March or April tentatively.

2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation (15)

Institute Marks : 15.00

Examinations are planned and announced before the commencement of the semester classes, evaluated answer scripts are returned within five days and weak students are monitored and mentored. The same is informed to the parents. By this process the course outcome attainment is monitored and in turn achieves the PO. Laboratory exams, mini projects and main projects contribute to the assessment of practical skills which reflect the ability of students to implement ideas and techniques.

Assignments help the students to better understand, analyze and improve the presentation of the given topic in the concerned subjects. As per JNTU curriculum, assignments are a part of program curriculum as per R13 regulation. But right from the inception of the department, assignments are included in the program curriculum to improve the students' understanding capabilities which in turn help to attain the defined POs

Reports, oral presentation and viva-voce contribute to the assessment of overall communication skills and dissemination of ideas. These assessments are carried out periodically and hence allow the faculty members to monitor and provide attention to the students who may not be attaining the PO's to the required level. This ensures that all students attain the minimum level of each program outcomes.

Perspectives that every Faculty should take care while setting a Question Paper:

- Objective and scope of the examination
- Relative weight age of the concepts
- Selection of questions
- Evaluation aspects

The toughness level of question paper should be such that 50% of it can be attempted by even an average student, 20% by good students and the rest 30% by intelligent students. Further, strict rules are framed for evaluation of question papers setting and evaluation.

The students are tested at the end of a semester or academic year to find out the outcome of their learning in the classroom. A good exam paper should be prepared to test them in all the areas of learning. The students are tested for their skills acquired in the classroom after the end of a semester or academic year. This test should be comprehensive and they should be tested in all the topics they learned during the semester or year.

It is expected that question papers are prepared to assess the programme outcomes in terms of the student's learning in cognitive domains, problem solving and ability to use novel tools and methods with respect to theory and laboratory courses enrolled. Scope of the questions shall encompass mapping of Course Outcomes against each question, Cognitive Domains (R-Remember, U-Understand, Ap-Apply, An-Analyze, E-Evaluate and C-Create) as well as Knowledge Dimensions (F-Factual, C- Conceptual, P-Procedural and M-Meta-Cognitive) and Learning Levels (1-Average, 2-Medium, 3-High). Examiners shall follow the guidelines given in the Annexure while preparing the question paper for the given course, and submit the question paper and Declaration Form. Under any circumstance, no examiners shall be allowed to set question papers more than two courses in a given semester. In the case of practical courses, questions are set and allotment of marks for experimental work and viva- voce are to be followed as per the Regulations in- force.

Conduct of Examination

Continuous Assessment & End Semester Examinations Schedule for the Tests (Continuous Assessment) and the End Semester Examinations are published 3 weeks before the beginning of the Examinations and communicated to all the students and respective departments through circulars, e-mail and Website.

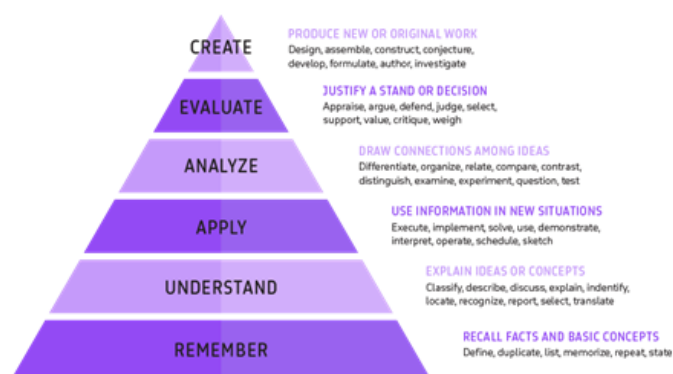
Arrangements of the venues for conducting the tests and examinations are arranged at least 5 working days prior to the conduct and circulated to both students and members of the faculty through e-mail and notice board. In the case of tests and examinations, the students are expected to occupy their respective places at least 10 minutes prior to the start and shall not leave the venue before 30 minutes. In the case of end- semester examinations, a printed / digital hall tickets along with the Instructions (Annexure IV) are issued to the students, showing the details of various courses registered for the examination. 5/42 Appointment of Chief Superintendent, Squad & Invigilators – Conduct of Examinations Based on the experience, qualification and their academic credentials Chief Superintendent is appointed by the Controller of Examinations in consultation with the Head of the Institution. Members of the Surprise Checking Squad and Hall Superintendent (Invigilators) are appointed by the Controller of Examinations with the guidelines given below:

Blooms Taxonomy:

Bloom's Taxonomy is a classification of the different objectives and skills that educators set for their students (learning objectives). The taxonomy was proposed in 1956 by Benjamin Bloom, an educational psychologist at the University of Chicago. The terminology has been recently updated to include the following six levels of learning. These 6 levels can be used to structure the learning objectives, lessons, and assessments of your course:

1. **Remembering:** Retrieving, recognizing, and recalling relevant knowledge from long-term memory.
2. **Understanding:** Constructing meaning from oral, written, and graphic messages through interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining.
3. **Applying:** Carrying out or using a procedure for executing, or implementing.
4. **Analyzing:** Breaking material into constituent parts, determining how the parts relate to one another and to an overall structure or purpose through differentiating, organizing, and attributing.
5. **Evaluating:** Making judgments based on criteria and standards through checking and critiquing.
6. **Creating:** Putting elements together to form a coherent or functional whole; reorganizing elements into a new pattern or structure through generating, planning, or producing.

Bloom's taxonomy is a set of three hierarchical models used to classify educational learning objectives into levels of complexity and specificity. The three lists cover the learning objectives in cognitive, affective and sensory domains. The cognitive domain list has been the primary focus of most traditional education and is frequently used to structure curriculum learning objectives, assessments and activities.



Revised Bloom's taxonomy represents the frame work and educational objectives and outlines the key levels of thinking. It starts with the most basic level of knowledge at the bottom, remembering, whereby students recall facts and basic concepts, and moves up towards the pinnacle: Create, where new or original work is produced in some fashion.

How Bloom's can aid in course design:

Bloom's taxonomy is a powerful tool to help develop learning objectives because it explains the process of learning:

- Before you can understand a concept, you must remember it.
- To apply a concept you must first understand it.
- In order to evaluate a process, you must have analyzed it.
- To create an accurate conclusion, you must have completed a thorough evaluation.

However, we don't always start with lower order skills and step all the way through the entire taxonomy for each concept you present in your course. That approach would become tedious—for both you and your students! Instead, start by considering the level of learners in your course:

1. Are lots of your students' freshmen? Is this an "Introduction to..." course? If so, many your learning objectives may target the lower order Bloom's skills, because your students are building foundational knowledge. However, even in this situation we would strive to move a few of your objectives into the applying and analyzing level, but getting too far up in the taxonomy could create frustration and unachievable goals.

2. Are most of your student's juniors and seniors? Graduate students? Do your students have a solid foundation in much of the terminology and processes you will be working on your course? If so, then you should not have many remembering and understanding level objectives. You may need a few, for any radically new concepts specific to your course. However, these advanced students should be able to master higher-order learning objectives. Too many lower level objectives might cause boredom or apathy.

Responsibility	Designation
Chief Superintendent	Professor
Additional Controller of Examinations (ACE)-I	Professor
Additional Controller of Examinations (ACE)-II	Associate Professor
Squad members	Professor/ Associate Professor
Examiners for Laboratory Examinations	Associate Professor/ Assistant Professor]
Invigilators and Skilled Assistants in Lab Examinations	Assistant Professor

Appointment of Chairperson, Chief Examiners, Examiners and Tabulators for Paper Valuation In the case of continuous assessment (Periodical Tests) the faculty member (Appointed by the Examination Branch) other than the subject handling staff shall evaluate the answer scripts and award the marks unless and otherwise the necessity is felt by the Controller of the Examinations. All the test papers shall be evaluated within three working days from the date of last test and papers shall be given back to the students for their reference. However, two or three sample answer scripts may be retained by the faculty members, with the consent of the respective students, for the purpose of accreditation and academic audits.

Retaining of papers after the examinations and Evaluation Answer papers, after the valuation and declaration of the results, shall be retained by the Office of the Controller of Examinations for a period of 2 years in the physical form and subsequently the valued answer papers may be digitized and kept for the retrieval whenever needed.

However, if any candidate seeks the duplicate copy of the answer sheet after completion of the Degree program or in the subsequent semesters before completion of the Degree, the same shall be made available either physical form or digital form, as may be available, after producing the written request by the candidate with the fee fixed, from time to time.

In the case of End Semester Practical Examinations, the answer scripts shall be retained for a period of 1 year and then shall be disposed by the Office of the Controller of Examinations Strategy for implementation of above measures envisages manpower development, preparation of question bank, infrastructure and necessary security systems. Manpower development involves building necessary capabilities for preparation of question papers, invigilation and monitoring examination related activities, evaluation of answer scripts and training the technicians and secretarial staff responsible for maintenance of records and documents. Dean Academics, shall organize training programmes, at least once in a semester in building the capacities and shall maintain the list of faculty members and staff who can take up various responsibilities. Question Bank, for every taught course, shall be prepared to assess the learning outcome of the students at specified intervals.

Questions, prepared and compiled as question bank, shall have mapping with the course outcomes expected from the teaching – learning process, assess the learning in terms of cognitive domains, knowledge domains, STEM concepts associated with the subject matter and the marks that may be awarded for every question submitted.

Members of faculty are expected to submit the question bank comprising the questions suitable for preparing a question paper with different weights as may be assigned. Care shall be taken to avoid redundancy (multiple questions that lead to the same answer), repetition of questions under different weights or categories, mundane / abstract questions. However, members of faculty are encouraged to frame open-ended questions, which might have multiple answers thereby stimulating the thinking process of the students. Exhaustive collections of question banks may be made available to the students for their reference.

Office of the Controller of Examination shall have necessary infrastructure facilities including controlled access at the entry, surveillance cameras / systems, safe vaults to keep confidential documents, protected environment for storage of answer scripts, printing and photocopying facilities. Perceived Outcomes Implementation of short-term, medium term and long term measures recommended in the Policy shall result in an effective assessment of teaching – learning system, identification of areas that might require additional focus by the students and members of the faculty, transparency and achievement of the Vision of the Institution.

The Department appoints a Subject expert on the day of the end semester examination (external). The concerned Subject expert faculty is supposed to report in the Central Examination branch 90 minutes before the commencement of the examination.

The following are the responsibilities of the Subject expert:

- Verify whether the Question Paper is defined strictly as per syllabus and guidelines defined.
- No question is out of syllabus or out of context of the question paper.
- There are no errors, spelling mistakes in the question paper.
- Approve one of the question papers in the given sets for final examination Process.

Quality of Internal Semester Question Papers:

The department has established DEPARTMENT EXAMINATION COMMITTEE (DEC) in order to assess the quality of the Internal Semester Question paper set by the concerned faculty in their respective subjects.

The functions of the Department Examination Committee are as follows:

To review Question Papers set by subject teachers for Internal Semester Mid exams by a team of Subject Experts

- To set guidelines for giving assignment to students and evaluation scheme.
- To set the question paper as per blooms taxonomy with various levels.
- To set Evaluation Scheme for Lab Internal & External Practical Exams.
- Assigning Invigilation Duties to Faculty Members.
- Conducting Pre-Final Exams.
- Result Analysis.

Committee Members:

S. No	Name of the faculty	Designation	Responsibility
1	Dr. P. Srikar	Professor	Chairman
2	Dr. P. H. V Sessa Talpa Sai	Professor	Subject Expert-Design
3	Dr. D. Damodhara Reddy	Associate Professor	Subject Expert-Thermal
4	Ms. Indira Bhadri	Assistant Professor	Coordinator
5	Mr. C. Daksheeswara Reddy	Associate Professor	Subject Expert-CAD/CAM
6	Dr. B. Sandhyarani	Associate Professor	Subject Expert-Production
7	Mrs. K. Navyasri	Assistant Professor	Coordinator

Sample Mid Examination Question Paper is shown below

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS INSTITUTION - UGC, GOVT. OF INDIA)

IV B.Tech I SEM-R20-MID-II-NOVEMBER-2024

Subject: FEA

Time: 10 AM TO 12 PM

Branch: MECH

Max. Marks: 24

Date:11-11-2024(FN)

A.YEAR:2024-2025

Write Any Four Questions. Each question Carries equal marks

4X5=20M

	MARKS	CO	BT
1. For an axis-symmetric problem, derive D-matrix (matrix which transforms strain into stress)	6M	CO3	L3
2. The nodal coordinates of the triangular element are 1 (2,3), 2 (6,4), 3 (4,8). At the interior point P, the x coordinate is 3.3 and N ₁ is 0.3. Determine N ₂ , N ₃ and y coordinate at point P.	6M	CO3	L5
3. a.) Explain What are the advantages and limitations of sub-parametric elements over super- parametric elements? b.) State and explain iso-parametric representation and explain its applicability.	3M 3M	CO4 CO4	L1 L2
4. For the composite wall shown in the figure below, compute the interface temperatures considering three elements. Take k ₁ =5 W/m-K, k ₂ =0.6 W/m-K, k ₃ =20 W/m-K, T ₁ =100°C, T ₄ =400°C	6M	CO4	L3
5. Determine the Eigen values and eigenvectors for the stepped bar as shown in figure.	6M	CO5	L5
6. Evaluate the lowest Eigen value and the corresponding Eigen mode for the beam shown in figure.	6M	CO5	L5

The following list shows the analysis of learning levels of the students in the respective subjects

Standard	Score
High	3
Medium	2
Low	1

Academic Year: 2022-23: R20 Regulation (II Year and III Year) and R18 Regulation (IV Year)

<https://enba.nbaind.org/SARTemplates/eSARUGTierIPrint.aspx?Appid=9757&Progid=641>

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II B.TECH – I & II Semesters (R20 Reg)				
S.NO.	Subject Code	Name of the Subject	MID-I	MID-II
1	R20A0303	Engineering Mechanics	3	3
2	R20A0304	Engineering Thermodynamics	3	2
3	R20A0305	Fluid Mechanics and Hydraulic Machines	2	3
4	R20A0306	Metallurgy and Material Science	3	2
5	R20A0307	Computer Aided Machine Design	3	2
6	R20A0308	Theory of Machines	3	3
7	R20A0309	Applied Thermodynamics	3	3
8	R20A0310	Strength of Materials	3	3
9	R20A0311	Data Structures Using Python	2	3
10	R20A0312	Manufacturing Process	2	3
11	R20A0024	Probability and Statistics	3	2
12	R20A0551	Intellectual Property Rights	2	2
III B.TECH – I & II Semesters (R20 Reg)				
S.NO.	Subject Code	Name of the Subject	MID-I	MID-II
1	R20A0313	Computer Integrated manufacturing Technologies	3	2
2	R20A0314	Thermal Engineering	3	3
3	R20A0061	Managerial Economics and Financial Accounting	2	3
4	R20A0315	Design of Machine Elements	3	2
5	R20A0318	Design of Hydraulic and Pneumatic Systems	2	3
6	R20A0452	Internet of Things and its Applications	3	3
7	R20A0321	Heat Transfer	3	3
8	R20A0566	Artificial Intelligence and Machine Learning	2	3
9	R20A0322	Design of Transmission Systems	3	2
10	R20A0326	Automobile Engineering	3	2
11	R20A0352	Design Thinking	2	3

IV B.TECH – I & II Semesters (R18 Reg)				
S.NO.	Subject Code	Name of the Subject	MID-I	MID-II
1	R18A0324	Automation and Control Engineering	2	2
2	R18A1205	Artificial Intelligence	2	2
3	R18A0326	Mechanical Measurements and Instrumentation	3	2
4	R18A0327	Finite Element Analysis	3	3
5	R18A0328	Production and operations Management	3	3
6	R18A0331	Automobile Engineering	2	2
7	R18A0333	Maintenance and Safety Engineering	3	3
8	R18A0335	Renewable Energy Sources	3	3

Academic Year: 2023-24: R20 Regulation (IV Year)

IV B.TECH – I & II Semesters (R20 Reg)				
S.NO.	Subject Code	Name of the Subject	MID-I	MID-II
1	R20A0328	CAD/CAM	2	2
2	R20A0329	Mechanical Measurements & Instrumentation	2	2
3	R20A0330	Finite Element Analysis	3	2
4	R20A0331	Refrigeration and Air Conditioning	3	3
5	R20A0335	Maintenance and Safety Engineering	3	3
6	R20A0337	Start-up, Innovation & Entrepreneurship	2	2

Quality of Assignments:

As per MRCET (UGC Autonomous) curriculum, assignments are mandatory. The first Assignment should be submitted before the conduct of the first mid-examination, and the second Assignment should be submitted before the conduct of the second mid- examination. The assignments are given by the concerned Subject Faculty.

Assignments are distributed evenly throughout the semester.

Academic Regulation	Unit Number	Assignment Number	Number of Questions	Submission Criteria	Marks allotted
R18	Unit I	Assignment I	1 or 2 Questions	Before I Mid Exam	6 Marks
	Unit II		1 or 2 Questions		
	Unit III		1 or 2 Questions		
	Unit IV	Assignment II	1 or 2 Questions	Before II Mid Exam	6 Marks
	Unit V		1 or 2 Questions		
R20	Unit I	Assignment I	1 or 2 Questions	Before I Mid Exam	6 Marks
	Unit II		1 or 2 Questions		
			1 or 2 Questions		
	Unit III		1 or 2 Questions		
	Unit IV	Assignment II	1 or 2 Questions	Before II Mid Exam	6 Marks
	Unit V		1 or 2 Questions		
	Unit V		1 or 2 Questions		

SCHEME OF EVALUATION IMPLEMENTED AS PER R18, AND R20 REGULATIONS:

The performance of a student in each semester or I year shall be evaluated subject-wise for a maximum of 100 marks for a theory and 100 marks for a practical subject. In addition, industry-oriented mini project, and major project work shall be evaluated for 100, 100 and 100 marks, respectively. For theory subjects the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End Examination.

For theory subjects, during a semester there shall be 2 mid-term examinations. Each mid-term examination consists of one essay paper and one assignment. The essay paper shall be for a total duration of 2 hours. The essay paper shall contain 6 full questions (one from each unit) out of which, the student has to answer 4 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 1 to 2.5 units of the syllabus, the second mid-term examination shall be conducted on 2.5 to 5 units. Six (6) marks are allocated for Assignments in R18 and R20 Regulations (as specified by the subject teacher concerned). The first Assignment should be submitted before the conduct of the first mid-examination, and the second Assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each midterm examination are evaluated for 24 marks in R18 & R20 Regulations. The average of the two mid-term examinations shall be taken as the final marks secured by each candidate. If any candidate is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the University.

R18 Regulation

Type of Exam	Name of the Module	Marks allotted	Total Marks
Internal	Subjective	24 Marks	100 Marks
	Assignment	6 Marks	
External	Subjective	70 Marks	

R20 Regulation

Type of Exam	Name of the Module	Marks allotted	Total Marks
Internal	Subjective	24 Marks	100 Marks
	Assignment	6 Marks	
External	Subjective	70 Marks	

SCHEME OF EVALUATION FOR LAB EXAMS

A. Internal Exams

For practical subjects there shall be a continuous evaluation during a semester for 30 sessional marks and 70 end semester examination marks. Out of the 30 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 15 marks conducted by the laboratory teacher concerned.

B. External Exams

The end semester examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the University. The distribution of marks for external exam is shown below:

S.No	Particulars	Marks Allotted
1	Aim	2
2	Apparatus	2
3	Theory	3
3	Diagram	3
4	Procedure	5
5	Readings	2
6	Calculation part	5
7	Results	3
8	Not Executed	0
	Partially Executed	8
	Completely Executed	10
9	Viva – Voce	20
10	Record and Observation	20

2.2.3 Quality of student projects (20)

Institute Marks : 20.00

Project Selection

Any project involves a student, or group of students, working under the guidance and direction of an assigned faculty. A project involves planning and developing a schedule of study and outcomes to be achieved over a period of time usually longer than that of an individual assignment.

Individual or group projects

Project work can be carried out individually or in groups. The formation of groups can be carried out in one of two ways: either students form their own group or the teacher identifies the group membership. Both of these methods have their own merits and drawbacks. Students who form their own groups tend to choose friends with similar backgrounds and objectives. This may detract from the rich learning experience to be gained by groups formed by students with different approaches to learning. One of the most useful methods used is to compose groups by individual student ability. In order to use this technique this method obviously assumes that the teacher knows his/her students. Teachers who previously used this method recommend that the group contain a mixed ability range; otherwise, one may well find that a high flier group or a very weak group often materializes. (Weak groups present problems when—or if—verbal assessment is given.) Another advantage of a mixed ability group is that the most able students can be used as mentors to the least able. It is well known in educational circles that we learn by doing and by teaching others. Hence the most able students can serve as mentors to enhance their own learning as well as helping their fellow students.

Project assessment weightings are: Project Log 20%, Project report 25%, Practical development 40% and Presentation 15%.

The project log is assessed on an individual basis, thus allowing for individual members within groups to be assessed this way. The assessment will take into consideration the individual student's involvement in the group and his/her individual effort and contribution to the overall project. The mark is to be made on continuous assessment, determined by the supervising Faculty during the project's time span

When grading the student's project and the group writing project, the following should be taken into account:

Project Log:

- a. The individual student's effort and commitment.
- b. The quality of the work produced by the individual student.
- c. The student's integration and co-operation with the rest of the group.
- d. The completeness of the logbook.

Written Project Report:

- a. Introduction.
- b. Literature Review
- c. Problem Identification and Project specifications.
- d. Methodology Applied
- e. Experimental Procedure.
- f. Results and Discussions.
- g. Conclusions and Recommendations.

In addition to these components, practical development (computational steps and other "technical" activities) should be marked with regard to the written report. The presentation of the project to Faculty and fellow student groups of the same institution should also be marked.

Practical Development:

- a. The group's investigation of the practical aspect (as evidenced in the report).

- b. Integration of the practical development with the rest of the project.
- c. The group's/individual analysis and design of the problem.
- d. The group's/individual attempt at practical development

Project Presentation:

- a. General quality of the presentation.
- b. Integration and teamwork.
- c. Interest, content and originality.

One of the main purposes of the presentations is to help students develop and improve their communications skills. Students need to be able to communicate technical or numerical data in everyday life. Students need to be able to explain and describe statistical methods and results, and this is a skill that is not very often tested in syllabuses (course plans).

The presentation structure considers and awards grades on an equal weighting as follows (each element gets an equal weighting):

- a. Relationship to the audience: Appropriate material used, clear message and recommendations which are meaningful.
- b. Use of supporting materials and useful aids to communication: Use of appropriate media for demonstration, handouts, etc.
- c. Structure: Introduction, middle, summary, and conclusion.
- d. Handling questions: Thoughtful and honest responses, appropriateness of answers and convincing arguments.
- e. Time Management: Presentation too long, too short, or appropriate.

The relationship to the audience is important since in real life being able to communicate effectively to get point(s) across is an essential skill to have acquired. To be able to display information using appropriate diagrams, graphs, or other such statistical knowledge is a useful technique and should be graded accordingly. Handling questions is a competency students will need to acquire in various aspects of their future studies and beyond and hence should be encouraged. Students will need to be able to manage effectively their own time in many aspects of life, whether it be for a timed examination or presentation

Sample of the Project Progress Report is given below:



Malla Reddy College of Engineering & Technology
(Autonomous Institution – UGC, Govt. of India)
Maisammaguda, Dhullapally, Secunderabad 500100, Telangana State, India

DEPARTMENT OF MECHANICAL ENGINEERING
(NAAC 'A' & NBA ACCREDITED)

ACADEMIC Year:..... SEMESTER:.....

PROGRESS REPORT OF THE PROJECT WORK

(From _____ to _____)

Student Name:Class:.....Roll No.

Title of the Project:

Name of the Internal Guide.....

DESCRIPTION OF THE PROJECT WORK DONE

(To be filled by Internal Guide)


No. of PRC Attended (Yes / No) if Yes ==

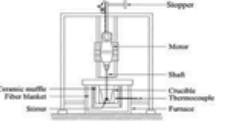




No of Seminars Presented to Internal Guide

Published your Project work (Yes / No)

Details of Publication

Internal Guide Project Coordinator HoD – ME


DEPARTMENT OF MECHANICAL ENGINEERING
MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY
 Email: hod_me@mrcet.ac.in
 IV Year B.Tech-II Semester Major Project Individual Summery Sheet
 ACADEMIC YEAR 2024-25

Project Title:	Experimental Analysis of Mechanical Properties of Aluminium Matrix Composites		
Project Loge:	AA221992	Batch Size:	3
Domain / Area:	CASTING AND COMPOSITES	Batch:	2024-25
Abstract:	Experimental analysis of Mechanical Properties of Aluminium Matrix Composite focuses on developing an aluminium matrix composite reinforced with Si_3N_4 (silicon nitride) and Al_2O_3 (alumina) nanoparticles using AA2219 alloy as the base material via the stir casting technique. The composite's density, porosity, hardness, microstructure, and wear behaviour are Tested and Evaluated.		
Technical Parameters	Specifications		
Length of the Specimen = 120mm Breadth of the Specimen = 50mm Diameter of the Specimen=50mm Weight of the Specimen = 300gms	1.Silicon Nitride (Si_3N_4) 2.Aluminium Oxide (Al_2O_3) 3.AA2219 Alloy Base Metal 4.Tungsten Carbide (TiC) 5. Casting 6.Rockwell Hardness Testing 7.Insert-Machining 8.Pin Disc Wear Testing		
Photograph of the Model/ Experimental Setup	Methodology Applied		
	To Make the Composite Material using the Aluminium Oxide and Silicon Carbide with Titanium Carbide as Primary Metal By using Stir Casting Method And to Analyse the Density,Hardness,Wear Behaviour,Microstructure of the Composite Metal Using Different tests		
Guide Details:	Batch Members Details		
			
Mr. V. Gopal Krishna Assistant Professor	K. Rajesh 21N31A0310	P. Sandeep 22N35A0313	P. Sai Srinivas 22N35A0314

Sample of the Project Evaluation form is given below for the academic year 2022-2023

Academic Year 2022-2023																
Roll Nos	Topic	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS01	PS02	PS03
19N31A0303 19N31A0321 19N31A0335	Densitification, Microstructure And Mechanical Properties Of Al Nano Composites	✓	✓	✓	✓	✓								✓		
19N31A0334 19N31A0346 19N31A0350	Design And Analysis Of Rectangular Fins	✓	✓		✓									✓		✓
19N31A0318 19N31A0319 19N31A0327	Thermal Analysis Of Different Types Of Fins Using Ansys	✓	✓	✓	✓	✓			✓					✓		✓
19N31A0322 19N31A0323 19N31A0353	Design And Manufacturing Of Solar Powered Seed Sprayer Machine	✓	✓	✓	✓									✓		
20N35A0305 20N35A0310 20N35A0308	Fabrication Of Air Operated Pneumatic Engine	✓	✓	✓	✓	✓			✓					✓		✓
20N35A0304 20N35A0307 20N35A0311	Design And Analysis Of Fluid Reciprocating Air Suspension System For Motorcycle	✓	✓	✓	✓				✓			✓	✓	✓		✓
19N31A03C9 19N31A03B1 19N31A03E2 19N31A03B7	STRUCTURAL AND THERMAL ANALYSIS OF PLANETARY GEAR SYSTEM	✓			✓				✓							✓

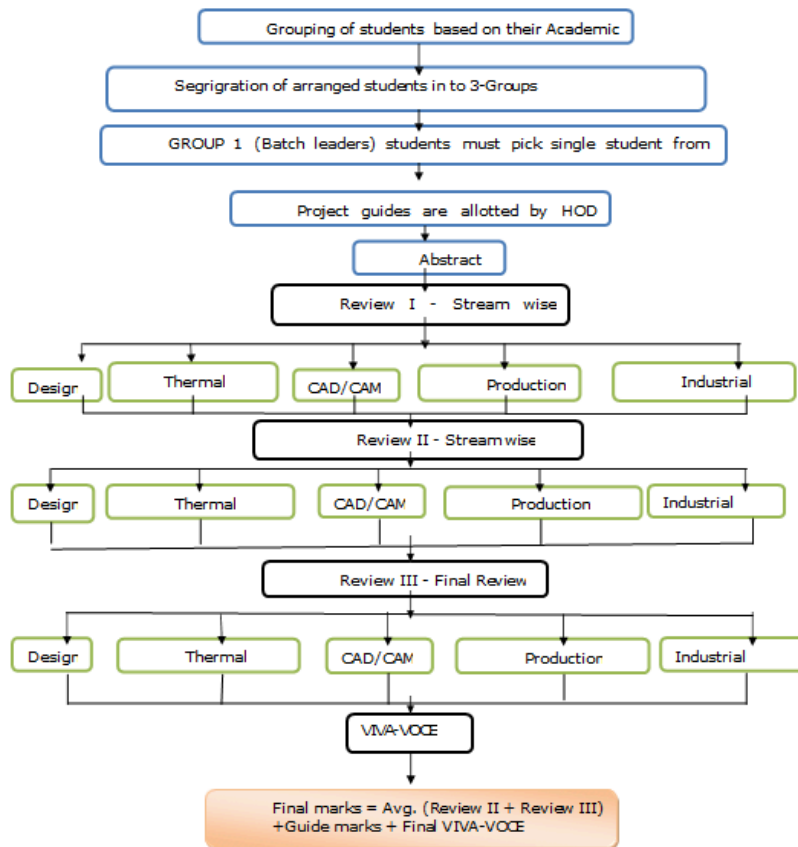
Sample of the Project Evaluation form is given below for the academic year 2023-2024

Academic Year 2023-2024																
Roll Nos	Topic	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
20N31A0306 20N31A0307 20N31A0346	Design And Analysis Of Load Lifting Mechanism Over Stair Cases	V	V	V					V			V	V			
20N31A0323 20N31A0344 20N31A0305	Design And Fabrication Of Plastic Waste Recycling Into 3d Printer Filament	V	V	V					V			V	V			
20N31A0338 20N31A0333 20N31A0311	Design Development And Performance Evaluation Of Thermoelectric Refrigeration	V				V		V								
21N35A0316 20N31A0303 21N35A0305	Development Of Surface Modified Al6061 Plates With Nano TiAl Dispersion Through Friction Stir Processing	V	V	V		V			V					V		V
21N35A0314 20N31A0327 20N31A0315	Generation Of Green Hydrogen	V			V	V			V							
20N31A0318 20N31A0326 20N31A0301	Design And Fabrication Of Buggy Body Using Arc & Gas Welding	V	V	V	V	V	V		V	V			V	V	V	
20N31A0332 20N31A0331 20N31A0304	Design And Fabrication Of Solar Powered Irrigation System	V	V	V		V	V							V		

Sample of the Project Evaluation form is given below for the academic year 2024-2025

Academic Year 2024-2025																
Roll Nos	Topic	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
21N31A0305 21N31A0317 21N31A0326	Comparative Analysis Of Long And Short Polybutylene Succinate And Bamboo Fiber Composite	V	V	V	V	V	V		V			V	V	V		V
21N31A0301 21N31A0306 21N31A0315	Design And Fabrication Of Seesaw Power Generation Device	V	V		V							V		V		
21N31A0314 21N31A0324 21N31A0328	Experimental Analysis On AISI308 And SS316 Plates Joined Through Friction Stir Welding	V		V		V			V					V		
22N35A0315 22N35A0310 22N35A0316	Effect Of Quenching On The Phase Transformation Of Cu-Al-Be-Cr Shape Memory Alloys	V	V	V		V			V		V			V		
21N31A0313 21N31A0322 22N35A0303	Experimental Analysis Of Hydrogen Generation From Ethanol	V	V	V		V			V							
21N31A0310 22N35A0314 22N35A0313	Experimental Analysis Of Mechanical Properties of Aluminium Matrix Composites	V		V		V			V					V		V

FLOW CHART OF CONTINOUS EVALUTION SYSTEM OF B. TECH PROJECT WORK



2.2.4 Initiatives related to industry interaction (10)

Institute Marks : 10.00

MRCET - Entrepreneurship Development Cell (EDC)/ Industry-Institute Partnership Cell (IIPC):***Vision***

Producing successful entrepreneurs imbibed with leadership qualities, Technical skills and above all passionate approach by using innovative and ethical business practices to make an effective global impact.

Mission

Unlock the innovative business opportunities and outcomes along with market updating among students to pursue entrepreneurship.

At MRCET, Entrepreneurship Development Cell (EDC)/ Industry-Institute Partnership Cell (IIPC) is established for enhancing the relationship between the institute and industry. This cell identifies the industrial expectation and promotes institutional preparation for meeting industrial needs by facilitating sponsored R&D projects, seminars, workshops and various other industrial training programs. Organizing such IIPCs in institution makes an effective contribution to educational system rather than criticizing shortcomings which are expected by the industry. Industry Institute partnership reflects in equipping faculty to latest practices and makes the students industry-ready by providing exposure to current industry practices and hones their skills to adapt changing technologies. The primary focus of IIPC is to interact with elite industries in and around Hyderabad and extend the efforts in establishing partnership with industries across the country in near future.

MRCET professional association with an Industry-Institute Partnership Cell (IIPC) sanctioned by the All Indian Council for Technical Education (AICTE) which definitely acts as an interface between the industries and Institute to take up collaborative activities in the fields of innovative practices and entrepreneur development. Entrepreneurship development cell has taken a revolutionary responsibility to generate the entrepreneurship skills among the students and help them to capitalize their ideas and achieve concrete goals to become a versatile entrepreneur. Moreover, we also give exposure of industrial sector to the challenging young minds to gain the perfect idea of market need and requirements. The system for the execution of EDC is initiated by different departmental faculty members and student coordinators. Contribute to global challenges and create a better society.

EDC /IIPC- Objectives

Entrepreneurship development cell bridges the gap between ideas to develop new innovative market. The IIPC has eventually leaded to the start of EDC to boost up the concrete mindset of enthusiastic students who wants to excel in the different fields of today's competitive business world. The objective of the IIP Cell is to reduce the gap between industry expectations (practice) and academic offerings (theory) by direct involvement of industry to attain a symbiosis. Indian industry at present has reached the most crucial turning point where it has to face the dynamic demands of the competitive domestic and global markets through the provisions of high quality products and services. To survive and succeed in this new scenario, the input that is most essential is the human resource. As technologies change rapidly, retraining and updating of the work force continuously are becoming major challenges facing every country today. Malla Reddy College of Engineering & Technology (MRCET) has setup an Industry Institute Partnership Cell for the above purpose. Industries and Technical Institution have a strong mutuality of interest which forms the basis of a partnership between them. The institute has set up an industry-institute Partnership Cell with the following objectives:

Objectives:

1. To arrange industrial training for students and identify student project work in Industries. To encourage Industry to collaborate in Industry Study Tour Programs (ISTP) and placement of students in Industries.
2. To interact with R&D Organizations for conducting joint research work involving faculty/scientists and students/research scholars etc.
3. Faculty exchanges - getting professionals from industry as visiting faculty or adjunct professors for short or long periods and deputation of faculty to industry to gain industrial experience and/or work on projects in industry.
4. Curriculum development- associating experts from industry in curriculum planning and review.
5. Personality development workshop for students relating with soft skills (communication skills / personality development).
6. Guest lectures by eminent personalities, academics, leading industrialists at regular intervals to update the student's knowledge.
7. To arrange technical festivals/open houses/student design competitions.
8. Continuing education programs: Providing infrastructure to meet the training needs of the industry, like improving communication skills, job analysis, inventory & financial controls, efficient management skills and on up gradation of technical knowledge on current topics.

9. To update the knowledge base (qualification) of professionals in different emerging sectors.
10. To arrange short-term programs Duration of 5 to 7 days for the benefit of Professionals in various technical disciplines.
11. In house training programs at the request of industries at their location.
12. Promotion of Income generating activities namely: Testing, Calibration, Consultancy and R & D (for achieving self-sustenance of the Cell within 3 - 5 years) typically for:
 - Creating facilities for Design, development and improvement of existing practices/ processes/ concepts.
 - Up gradation& modernization of workshop facilities.
 - Preparation of content manuals, Audio and visual presentations and assistance in implementation of some real projects and applications.
 - Finding solutions of various problems faced by the industry during production and operation of the industrial units.
 - Conducting market surveys and feasibility reports through projects assigned to the students and providing them to the industry for their benefit.
13. Technology transfer in the nearby rural areas. Provide Basic Training to the Govt. schools in nearby villages.
14. To set up Innovation Centre or Incubation Centre and Centre of Excellence.
15. Signing MOU's with industry and Institutes. Setting up of technology parks in collaboration with alumni and industry for cost effective opportunity for R&D leading to marketable products.
16. Promotion of Home-grown technologies, which is expected to strengthen the linkages between research institutes and industry indigenously by commercialization of indigenously, developed technologies.
17. Institution of Industry sponsored special chairs/staff positions with all expenses met where reputed persons can be appointed for a fixed period.
18. Services to industry- Institute can provide services to industry such as:
 - Library and information services to the industries
 - Access to institute research information service
 - Access to laboratory facilities.
 - Access as partner industry to set up common facilities for better Industry - Institute synergy.

EDC /IIPC- Functional activities

With a purpose of enhancing entrepreneurship skills among students to be self-reliant in the dynamic business world, MRCET act as an instrument to make the conversion of an 'idea' into an 'investment'. The new generation entrepreneurs, corporate executives, guest speakers on various domains covering technology & management are invited to guide and motivate students. Furthermore, we also help them to channelize their requirements in terms of financial, technical and legal aspects.

- To provide the framework for the operation and execution of the new startup.
- To setup a route map for sustaining among the competitors.
- Empowering student entrepreneurial activity and mobilizing new student-led initiatives.
- To get aware of new technology system and get rid from obsolete technology.
- To form links with the Industry Growth Centers.
- To come closer towards practical approaches in the field of new start up corporate world.
- To propose several activity based programs such as "Business Start-ups", "InnovativeØ Product", ' Technology driven concepts", etc
- To develop professional business plans and facilitating them for investments.

EDC/IIPC -Helping Hand to Student Incubation Centers

College initiates and provides office space & equipment, technology support and seed capital to nurture the upcoming entrepreneurial talents. Thus making it more robust and approachable for the individual who has high entrepreneur ambition.

Mentoring

College has dedicated Technical & Business Development mentors to assist students who are coming with the business ideas and to provide entrepreneurship training. The guidance given by mentors plays vital role to start a new venture.

Associations

College has industry associations giving one on one professional network and self-employment tips to establish as successful entrepreneurs. The professional bodies will surely trigger confidence among students to take individual decision and to start their business plans.

- EDC/IIPC- Career Outcomes
- Small business owner/operator
- Entrepreneur
- Business analyst

ADVISORY BOARD MRCET - IIPC ACTIVITIES

S.No	Designation	Name	Status
1	Principal	Dr S. Srinivasa Rao	Chairman
2	Dean Academics	Dr. T. Venugopal	Organizing Chair
3	HOD,MECH	Dr. P. Srikar	Member
4	Dean (R&D)	Dr. PHV Sessa Talpa Sai	Member
5	Dean, Placements	Prof K Kailasa Rao	Member
6	Dean, CSE	Dr. D Sujatha	Member
7	Director, ECE	Prof P Sanjeeva Reddy	Member
8	Director, ANE	Prof. Vedantam Ravi	Member
9	Professor, ME	Dr. D. Damodhar Reddy	Member
10	HOD, ECE	Dr. K. Mallikarjun	Member
11	HOD, IT	Dr G Sharada	Member
12	HOD, ANE	Prof M. Mohammed	Member
13	HOD, H&S	Dr V Madhusudhan Reddy	Member
14	Industry Expert	Shri Siva Kumar	Member
15	Chief Coordinator	Prof. G Naveen Kumar	Convener

ACTION PLAN:

- In order to achieve the stated Aim and Objectives, MRCET-IIPC will broadly be engaged in the following activities:
- To identify the scientific and technical requirements of the "industry", in which R&D work can be taken up by MRCET-IIPC.
- To promote synergetic partnership between Industry and MRCET for taking up joint research programmers involving the students of MRCET.
- To conduct relevant R&D activities within or outside the premises of MRCET with the involvement of students and the faculty of MECHANICAL department under the supervision/guidance of experts from outside MRCET.
- To motivate and involve students of MECHANICAL department in the relevant R&D activities of this Cell with an aim to transform these graduating engineers into professional engineers who are usefully employable by the Industry.
- To organize lectures, interactive workshops, conferences, seminars, brain storming sessions, technical discussions, consultancy Sessions, training, orientation courses, meetings, visits etc, and involving members of the Industry, outside experts, eminent personalities, faculty and students of MECHANICAL department.
- To generate resources- financial, material and human, both from within and outside MRCET for creating very high-quality infrastructure and research facilities within and outside the MRCET premise.
- To take up sponsored projects from Industry and other funding agencies
- To take up industry-based projects funded by AICTE, DST, DRDO, CSIR and other funding agencies.
- To fund some projects and sub-projects to outside agencies including Academia, in order to conduct these relevant R&D activities smoothly and efficiently within or outside the premises of MRCET with the involvement of students and the faculty of MRCET under the supervision of outside experts.
- To provide technical consultancy services to/from the industry.
- To invite expert members of the Industry to MECHANICAL department to spend varying durations as Guest Faculty members/Research Supervisors/ Technical Consultants etc. with other Engineering Colleges and Technical Institutes where such interactive research programs are running successfully.

- To share the experience, through exchange of lectures, visits and meetings etc.
- To access periodically the scientific and technological scenario in India and abroad in order to translate it into action for taking up R&D work.
- To help students of MECHANICAL department in getting suitable placements in industries/companies/other employing organization in the Government and Private Sectors based on the R&D work carried out by these students, within or outside SKPEC and facilitated by MRCET-IIPC.

Guest lectures by various industry Experts for Partial delivery of the Courses:

2022-23					
S.NO	Speaker/ person	Resource	Designation	Organization	Topic
1	Mr. Bharat C Maharaaj		General Manager	Pratt and Whitney, Hyderabad.	Operations of Supply Chain Management.
2	Mr. Hari Adavalli		Head Operations	Cyient, Hyderabad	Integration of Design Manufacturing
3	Mr. Umashankar		Manager	Mahindra and Mahindra, Zaheerabad.	Smart Factory machinery
4	Dr. Amia Bhaumik		Professor	LUC, Malaysia	Vibrations, Acoustics and Fluid-Structure Interaction.
5	Mr. Sunil Maheshwari		Sr. Regional Manager	Adroitec, Hyderabad	Manufacturing Programming for specialized tool operations.
6	Mr. Prasada Rao		Managing Director	WINWILL Technology Services, Hyderabad.	Integrated Manufacturing System
7	Mr. Badri Narayana		Manager	BHEL	Manufacturing of compressors
8	Mr. D. Mallikarjuna		HDC manager	Axis cades Engineering Technologies Limited, Hyderabad	Emerging trends in Mechanical Engineering
9	Mr. D. Lakshmi Narayana		Sr. Applications Engineering	EDS Tech Pvt. Ltd	Recent Trends in Manufacturing process
10	Mr. Jagmohan Lal		General Manager	L&T Metro Rail, Hyderabad	Air Braking of Indian Railways

2023-24					
S.NO	Speaker/ person	Resource	Designation	Organization	Topic
1	Mr. Ashok Agarwal		Retired Professor	IIM, Kolkata	Mechanical Engineering for Sustainable Development.
2	Sunil Maheshwari		Sr. Regional Manager	Admitec, Hyderabad	3D Modeling of machine components
3	Mr. Prasada Rao		Managing Director	WINWILL Technology Services, Hyderabad.	Integrated Manufacturing System
4	Mr. Shaik shaiksbavali		Technical Manager	Axis cades Engineering Technologies Limited, Hyderabad	NonLinear Analysis on composites
5	Mr. Hari Adavalli		Head Hyderabad Pro mechanical and Operations	Cyient, Hyderabad	Integration of Design Manufacturing
6	Mr. M. Ramakrishna		Addl. General Manager	BHEL, Hyderabad	Manufacturing of compressors.
7	Mr. Bharat C Maharaj		General Manager	Pratt and Whitney, Hyderabad.	Operations and Supply Chain Management.
8	Mr. Janardhan Hunusnoble		Sr. Manager	MOOG India Technology Centre Pvt.Ltd, Bangalore.	Pneumatic and control systems
9	Mr. Umashankar		Manager	Mahindra and Mahindra, Zaheerabad.	Smart Factory machinery
10	Dr.Amia Bhaumik		Professor	LUC , Malaysia	Intelligence of Reverse braking System.

The following labs are associated with the Industries mentioned below in order to bring awareness about Industry requirements and prepare students of MECHANICAL department as Industry required graduates

S.NO	Year/Semester	Name of the Lab	Name of the Industry associated
1	II/I	Materials Science	BHEL, Hyderabad.
		Strength of Materials Lab	KLR Industries Ltd, Hyderabad.
2	II/II	Fluid Mechanics and Hydraulic Machinery Lab	Hydroelectric power plant, Nagarjunasagar.
3	III/I	Thermal Engineering Lab	Mahendra & Mahendra, Zaheerabad.
		Machine Tools	NFC, Hyderabad.
4	III/II	Heat Transfer Lab	Rockwool India PVT.Ltd, Hyderabad.
		CAD Lab	MSME Hyderabad.
5	IV/I	Mechanical Measurements and Control Systems Lab	CSIR-CCMB instrumentation facilities, Hyderabad.

2.2.5 Initiatives related to industry internship/summer training (10)

Institute Marks : 10.00

Industry and University Collaborations:

Collaboration between university, industry and society is being increasingly emphasised:

The Centre for University Industry Collaboration (CUIC), would be established with a primary focus on the following domains namely Campus Placement for UG and P.G Degree Students, Interaction between University and Industry, and Training Programs for students on core competency development such as employability skills, awareness on employment avenues etc.

1.Campus Placement of Students:

The campus placement activities for students would be regularly (twice in a year) carried out for students belong to UG / PG programs studying in the University Departments and affiliated colleges. The campus placement offers mainly three kinds of jobs namely core, dream and IT/ITES placements etc.

2.Industrial Associate ship Scheme (IAS) :

CUIC has a unique and novel scheme of Industrial Associate ship Scheme (IAS) wherein, we can enroll small, medium, large scale industries, R&D and Educational institutions with the main aim to carry out industrial / institution combined activities.

3.Industrial Training:

Industrial training would be made mandatory for all Under-Graduate students as per the CBCS curriculum. This would give wide exposure about the various functions of the Industries prior to the completion of their studies. CUIC with assistance and coordination of various industries and departments will arrange Internship training to students, for Industrial exposure and comparative awareness of the state-of-art of the Industrial requirements.

4.Academic interface program with industries:

CUIC, would collaborate with industries for improving students' performance for their placement readiness programs under the academic support from HR departments of various industries. Memorandum of Understanding: CUIC would be instrumental in forging many MoUs with various Industries and Research and Development Establishments. This MoUs will enhance the students on Internship training, Placement, Industrial readiness, Professional competencies, and also to improve their soft skills. Apart from this, CUIC will also initiate Action Research projects in the catchment area. The center not only concentrates on placement of students but also believe that talents are available in Rural, Sub-urban, and Urban Colleges and hence the center organizes District Level Placement Programs by requesting the IT/ITES industries and other industries which will enhance and create confidence to all students.

Core Activities:

- Conducting Programs to improve presentation and communication skills, assertiveness, developing leadership attributes and enhancing the level of internal motivation of the students.
- Conducting career Information fairs every year for students and parents at University level.
- Conducting campus interviews by collaborating with the industries.
- Conducting Orientation Programs on Industrial Expectations for the benefit of Students.
- Conducting Seminars, Symposia and Workshops on current topics of national interest to Industrial Personnel. Interacting with various Industrial Personnel and consolidating the Industrial demand / expectations for the benefit of the students.
- Career Guidance and Counseling for U.G. and P.G. Degree Students.
- The CUIC will play an instrumental role in establishing Institution Industry Interaction Centres (CIII) in all affiliated Colleges.



Collaboration for:

- Knowledge development and growth, i.e. university participation in the knowledge and innovation system.
- Better education, i.e. dialogue between universities and the surrounding society on the content and scope of degree courses and external contacts by students during their education. Democratic development, i.e. the work of universities on communicating research for public education.
- Collaboration benefits for the academy University research and education can benefit from close collaboration with knowledge users in several ways.
- External funding places demands for up-to-date and relevant research topics. Through close collaboration these research topics can be expanded.
- University degree courses are exposed to competition through the increased mobility of students.
- Courses involving prospective employers are attractive since they improve the opportunities to get a job after graduation.
- A well developed network and effective dialogue with actors within the industry and other sectors of society contributes to the external analysis that universities must priorities in order to keep pace with a changing world with new challenges.

Collaborated Universities are as following:

- Mahindra and Mahindra farm equipment sector, Zaheerabad , india.
- Scientific and Industry Research Organization (SIROs) ,New Delhi.
- Tech Mahindra Pvt.Ltd, Hyderabad.
- National Research Development Corporation, New Delhi.
- Adroitec Engineering Solutions Pvt.Ltd, Secundarabad.
- Vellore institute of Technology, Vellore.
- Indian Institute of Technology,Bhilai.
- Karunya Institute of technology and Sciences, Coimbatore.
- Education Matters.
- Bynder Technologies India Pvt.Ltd
- Oracle Academy, Hyderabad.
- MECH ENGG, Hyderabad.
- Northern Arizona University, USA.
- EDCIL (INDIA) LIMITED, New Delhi.
- Advanced center for Atmospheric Sciences, Dept of Physics, S.V. University, Tirupati.
- CSIRL-NAL Bangalore, India

List of MOUs:

- Campx Edutech private Ltd, Hyderabad.
- AIC ALEAP WeHub, Pragati Nagar, Hyderabad.
- Green Fuel Alternatives Pvt. Ltd, Hyderabad
- ECPI University, USA.
- Adroitec Engineering Solutions Pvt.Ltd, Secundarabad.

- Northern Arizona University, USA.
- Oxford University press, India.
- NIT Warangal.
- Telangana Academy for Skill and knowledge
- Mahindra and Mahindra
- MSME Tool Room, Hyderabad.
- Oracle Academy
- AICTE MoUs for student Internships
- Hello Robotics
- Indian Institute of Hardware Technology Ltd.
- BARC Training School, NFC.
- Advanced Center for Atmospheric Science, SV University.
- National Aerospace Laboratories.
- Aeronautical Society of India.
- Embedded RF Systems Pvt. Ltd., Hyderabad.
- Serveen Software Systems, Hyderabad.
- Robot space Automation Pvt. Ltd., Hyderabad.



UNIMAS INTERNSHIP PROGRAMME



UNIMAS INTERNSHIPPROGRAMME

Impact Analysis of Industrial training/internship

- Students are exposed to real time practical experience of the subjects studied in the classrooms and realized the practical importance of the subjects.
- Industrial training inculcated more interest in the subjects.
- Students are inspired to do hard work and get placed in such industries.
- Communication skills of the students improved
- Students were exposed to the industry standards and workplace culture, the importance of being punctual and meeting the deadlines.

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
LIST OF STUDENTS FOR SUMMER INTERSHIP AY:2023-24

S.NO	ROLL NO.	NAME OF THE STUDENT	YEAR	COMPANY NAME	DURATION
1	20N31A0306	BHUKYA NAVEEN	III	O&M-KTPS VII Stage	May 13 th TO June 3 rd
2	20N31A0312	G.PRATHIK	III	O&M-KTPS VII Stage	May 13 th TO June 3 rd
3	21N35A0303	BHUKYA GANESH NAYAK	III	O&M-KTPS VII Stage	May 13 th TO June 3 rd
4	21N35A0313	PEDDAGOLLA SRISHYLA	III	O&M-KTPS VII Stage	May 13 th TO June 3 rd
5	21N31A0304	CHINTHA REDDY BHANU PRAKASH REDDY	III	O&M-KTPS VII Stage	May 13 th TO June 3 rd
6	21N31A0306	DUBBA VIVEK	III	O&M-KTPS VII Stage	May 13 th TO June 3 rd
7	21N31A0315	MANTHENA SRAVAN KUMAR	III	O&M-KTPS VII Stage	May 13 th TO June 3 rd
8	22N35A0312	PEDDURI SHANKAR	III	O&M-KTPS VII Stage	May 13 th TO June 3 rd
9	20N31A0311	DHARAVATH ABHIDAS	III	NIT ROURKELA	May 13 th TO June 3 rd
10	20N31A0327	LAYAKAR RUGVEDH BOLLA	III	NIT ROURKELA	May 13 th TO June 3 rd
11	20N31A0345	KOTARI SREE NIKHIL	III	NIT ROURKELA	May 13 th TO June 3 rd
12	21N31A0321	ROHAN PAWAR	III	NIT ROURKELA	May 13 th TO June 3 rd
13	20N31A0303	ATHRAM RAMAKRISHNA	III	IIT BHILAI	May 13 th TO June 3 rd
14	20N31A0308	BOLLAPELLI VIVEK	III	IIT BHILAI	May 13 th TO June 3 rd
15	20N31A0336	NEELAM KARTHIK	III	IIT BHILAI	May 13 th TO June 3 rd
16	20N31A0338	PATHLAVATH VITTAL	III	IIT BHILAI	May 13 th TO June 3 rd
17	21N31A0303	BANOTHU LAXMAN	III	IIT BHILAI	May 13 th TO June 3 rd
18	21N31A0322	S. RAHUL	III	IIT BHILAI	May 13 th TO June 3 rd
19	20N31A0309	BONEPALLY SAHITH REDDY	II	NIT JAMSHEDPUR.	May 13 th TO June 3 rd
20	20N31A0318	GHANAMUKHI HEMANTH	II	NIT JAMSHEDPUR.	May 13 th TO June 3 rd
21	20N31A0321	K. SUJETH	II	NIT JAMSHEDPUR.	May 13 th TO June 3 rd
22	21N31A0301	KUNDAN RAJESH ALLA	II	NIT JAMSHEDPUR.	May 13 th TO June 3 rd
23	21N31A0307	ELIMINETY VAMSHIDHA REDDY	II	NIT JAMSHEDPUR.	May 13 th TO June 3 rd
24	21N31A0302	B.ANKITH	II	DIESEL LOCO SHED-MOULA ALI	May 13 th TO June 3 rd
25	22N35A0318	S.JAYACHANDRA	II	DIESEL LOCO SHED-MOULA ALI	May 13 th TO June 3 rd
26	20N31A0346	T. NARESH	III	CARRIAGE WORKSHOP LALLAGUDA	May 13 th TO June 3 rd
27	20N31A0335	N. RAKESH	III	CARRIAGE WORKSHOP LALLAGUDA	May 13 th TO June 3 rd
28	20N31A0343	S. SAI KUMAR REDDY	III	CARRIAGE WORKSHOP LALLAGUDA	May 13 th TO June 3 rd
29	20N31A0318	G.MANIDEEP	III	CARRIAGE WORKSHOP LALLAGUDA	May 13 th TO June 3 rd
30	20N31A0340	P.ALOK KUMAR	III	CARRIAGE WORKSHOP LALLAGUDA	May 13 th TO June 3 rd

31	20N31A0301	A.NITHIN REDDY	III	CARRIAGE WORKSHOP,LALLAGUDA	May 13 th TO June 3 rd
32	20N31A0341	R.BHOGEENDRA	III	CARRIAGE WORKSHOP,LALLAGUDA	May 13 th TO June 3 rd
33	20N31A0310	D.SUJETH REDDY	III	CARRIAGE WORKSHOP,LALLAGUDA	May 13 th TO June 3 rd
34	20N31A0320	J.VAMSHI	III	CARRIAGE WORKSHOP,LALLAGUDA	May 13 th TO June 3 rd

LIST OF STUDENTS FOR SUMMER INTERNSHIP AY:2024-25

S.NO	ROLL NUMBER	NAME OF THE STUDENT	YEAR	COMPANY NAME	DURATION
1	22N35A0304	G.MALLESH	III	BDL	May 14 th to June 2 nd
2	22N35A0310	P.MONESH	III	BDL	May 14 th to June 2 nd
3	22N35A0315	SAI VIKAS .B	III	BDL	May 14 th to June 2 nd
4	22N35A0317	S.NARENDER	III	BDL	May 14 th to June 2 nd
5	23N35A0320	K.SAI RAKISHTHA	II	IIT BHILAI	May 14 th to June 2 nd
6	23N35A0313	D.MANASA	II	IIT BHILAI	May 14 th to June 2 nd
7	23N35A0311	CH.MAHESWARA REDDY	II	IIT BHILAI	May 14 th to June 2 nd
8	23N35A0305	ANAGAN DULA OMKAR	II	IIT BHILAI	May 14 th to June 2 nd
9	23N35A0320	A.YESHWANTH	II	IIT BHILAI	May 14 th to June 2 nd
10	21N31A0301	A.RAJESH	III	BEL	May 14 th to June 2 nd
11	22N35A0302	CHALLA TIRUMALA	III	KTPS	May 14 th to June 2 nd
12	22N35A0311	P.SAI ABHINAY	III	KTPS	May 14 th to June 2 nd
13	22N35A0316	SK.SAMZEER AHMED	III	KTPS	May 14 th to June 2 nd





3 COURSE OUTCOMES AND PROGRAM OUTCOMES (175)**Total Marks 175.00****Define the Program specific outcomes**

:

PSO1	Ability to analyze, design and develop Mechanical systems to solve the Engineering problems by integrating thermal, design and manufacturing Domains.
PSO2	Ability to succeed in competitive examinations or to pursue higher studies or research.
PSO3	Ability to apply the learned Mechanical Engineering knowledge for the Development of society and self.

3.1 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (25)**Total Marks 25.00**

No. of Core Courses : 6	C2 : 2	C3 : 2	C4 : 2
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Note : Number of Outcomes for a Course is expected to be around 6.

Course Name :	C2 04	Course Year :	2023-2024
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Course Name	Statements
C2 04.1	Understand the mechanism of crystallization, methods of determining grain size and factors affecting the solid solubility
C2 04.2	Use the phase diagrams of binary systems and iron-carbide diagram to select the material composition.
C2 04.3	Understand the structure and properties of various cast irons, steels and non-ferrous alloys.
C2 04.4	Apply the various heat treatment processes, TTT diagram, surface hardening methods & coatings depending on material requirements
C2 04.5	Understand the importance of ceramics, composites and concepts of metallurgy

Course Name :	C2 13	Course Year :	2023-2024
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Course Name	Statements
C2 13.1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
C2 13.2	Acquire knowledge and hands-on competence in applying the concepts of manufacturing science in the design and development of mechanical systems.
C2 13.3	Competence to design a system, component or process to meet societal needs within realistic constraints.
C2 13.4	Demonstrate creativeness in designing new systems components and processes in the field of engineering in general and mechanical engineering in particular.
C2 13.5	An ability to formulate solve complex engineering problem using modern engineering and information Technology tools.

Course Name :	C3 02	Course Year :	2023-2024
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Course Name	Statements
C3 02.1	Graduate will recognize and recall the importance of thermodynamic analysis for improvement of efficiency.
C3 02.2	Graduate will understand the working principles of SI and CI Engines.
C3 02.3	Student will be able to do thermodynamic analysis for various powers and efficiencies of IC Engines
C3 02.4	Student will evaluate the thermodynamic analysis and various efficiencies of Compressors.
C3 02.5	Students will develop the skill required in solving problems related to Compressors and do the thermodynamic analysis.

Course Name :	C3 22	Course Year :	2023-2024
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Course Name	Statements
C3 22.1	Acquires the knowledge on belts, ropes.
C3 22.2	Calculate the design parameter for energy storage element and engine components, connecting rod and piston
C3 22.3	To understand the design and forces acting on gears
C3 22.4	Select appropriate gears for power transmission on the basis of given load and speed Design gears based on the given conditions Apply the design concepts to estimate the strength of the gear.
C3 22.5	Analyze power screws subjected to loading

Course Name :	C4 03	Course Year :	2023-2024
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Course Name	Statements
C4 03.1	Describe the concept of FEM and difference between the FEM with other methods and problems based on 1-D bar elements and shape functions.
C4 03.2	Derive elemental properties and shape functions for truss and beam elements and related problems.
C4 03.3	Understand the concept deriving the elemental matrix and solving the basic problems of CST and axi-symmetric solids
C4 03.4	Formulate FE characteristic equations for iso-parametric problems and Explore the concept of steady state heat transfer in fin and composite slab
C4 03.5	Understand the concept of consistent and lumped mass models and solve the dynamic analysis of all types of elements.

Course Name :	C4 13	Course Year :	2023-2024
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Course Name	Statements
C4 13.1	Students will be able to understand the concept of innovation and new product development
C4 13.2	Startup opportunities and startup equation
C4 13.3	New venture creation opportunities, its resources, and Requirements
C4 13.4	The Entrepreneurial Mindset and new trends in entrepreneurship
C4 13.5	Strategic perspectives in Entrepreneurship.

Course Articulation Matrix

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1 . course name : C204

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	Understand	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾
C204.2	Use the ph	3 ▾	3 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C204.3	Understand	3 ▾	3 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾
C204.4	Apply the v	3 ▾	3 ▾	3 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C204.5	Understand	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
Average		2.80	2.60	2.20	2.00	2.00	0.00	2.00	0.00	0.00	0.00	0.00	1.60

2 . course name : C213

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	Apply the k	3 ▾	3 ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C213.2	Acquire kno	3 ▾	2 ▾	2 ▾	1 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾
C213.3	Competenc	- ▾	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾	1 ▾	2 ▾
C213.4	Demonstrat	2 ▾	2 ▾	3 ▾	- ▾	- ▾	2 ▾	- ▾	2 ▾	2 ▾	2 ▾	- ▾	2 ▾
C213.5	An ability to	- ▾	2 ▾	2 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	- ▾	3 ▾
Average		2.60	2.40	2.50	2.00	2.50	2.00	0.00	2.00	2.00	2.00	1.00	2.00

3 . course name : C302

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	Graduate w	3 ▾	2 ▾	- ▾	2 ▾	3 ▾	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C302.2	Graduate w	3 ▾	2 ▾	2 ▾	- ▾	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C302.3	Student will	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾	- ▾	2 ▾
C302.4	Student will	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C302.5	Students w	3 ▾	3 ▾	3 ▾	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	3 ▾	- ▾
Average		3.00	2.60	2.75	2.67	3.00	3.00	3.00	0.00	0.00	2.00	3.00	2.50

4 . course name : C322

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C322.1	Acquires th	3 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	1 ▾	2 ▾	- ▾	- ▾
C322.2	Calculate th	3 ▾	3 ▾	3 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	1 ▾	2 ▾	- ▾	2 ▾
C322.3	To understa	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	3 ▾	- ▾	- ▾	2 ▾	2 ▾	2 ▾	- ▾
C322.4	Select appr	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	2 ▾	3 ▾	2 ▾	3 ▾
C322.5	Analyze po	3 ▾	3 ▾	3 ▾	2 ▾	3 ▾	- ▾	3 ▾	- ▾	1 ▾	2 ▾	2 ▾	3 ▾
Average		3.00	2.80	3.00	2.50	3.00	3.00	3.00	0.00	1.40	2.20	2.00	2.67

5 . course name : C403

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	Describe th	3 ▾	2 ▾	2 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C403.2	Derive elen	3 ▾	3 ▾	- ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C403.3	Understanc	3 ▾	3 ▾	- ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
C403.4	Formulate I	3 ▾	2 ▾	3 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C403.5	Understanc	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾
Average		3.00	2.60	2.67	2.50	2.60	0.00	0.00	0.00	0.00	0.00	0.00	2.67

6 . course name : C413

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	Students w	3 ▾	2 ▾	3 ▾	2 ▾	- ▾	- ▾	1 ▾	- ▾	2 ▾	3 ▾	3 ▾	3 ▾
C413.2	Startup opp	3 ▾	2 ▾	3 ▾	2 ▾	- ▾	3 ▾	- ▾	- ▾	2 ▾	3 ▾	3 ▾	3 ▾
C413.3	New ventur	- ▾	2 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾
C413.4	The Entrep	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾
C413.5	Strategic pe	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	3 ▾	3 ▾	3 ▾
Average		3.00	2.60	3.00	2.50	0.00	3.00	3.00	3.00	2.60	3.00	3.00	3.00

1 . Course Name : C204

Course	PSO1	PSO2	PSO3
C204.1	2 ▼	2 ▼	1 ▼
C204.2	3 ▼	3 ▼	2 ▼
C204.3	3 ▼	3 ▼	2 ▼
C204.4	3 ▼	3 ▼	3 ▼
C204.5	2 ▼	2 ▼	2 ▼
Average	2.60	2.60	2.00

2 . Course Name : C213

Course	PSO1	PSO2	PSO3
C213.1	3 ▼	2 ▼	2 ▼
C213.2	3 ▼	2 ▼	1 ▼
C213.3	3 ▼	2 ▼	2 ▼
C213.4	3 ▼	3 ▼	3 ▼
C213.5	3 ▼	2 ▼	3 ▼
Average	3.00	2.20	2.20

3 . Course Name : C302

Course	PSO1	PSO2	PSO3
C302.1	3 ▼	3 ▼	3 ▼
C302.2	3 ▼	2 ▼	3 ▼
C302.3	3 ▼	3 ▼	3 ▼
C302.4	3 ▼	3 ▼	3 ▼
C302.5	3 ▼	3 ▼	3 ▼
Average	3.00	2.80	3.00

4 . Course Name : C322

Course	PSO1	PSO2	PSO3
C322.1	2 ▾	3 ▾	3 ▾
C322.2	3 ▾	- ▾	3 ▾
C322.3	3 ▾	3 ▾	3 ▾
C322.4	3 ▾	3 ▾	3 ▾
C322.5	3 ▾	- ▾	2 ▾
Average	2.80	3.00	2.60

5 . Course Name : C403

Course	PSO1	PSO2	PSO3
C403.1	3 ▾	- ▾	2 ▾
C403.2	3 ▾	2 ▾	2 ▾
C403.3	3 ▾	3 ▾	3 ▾
C403.4	3 ▾	3 ▾	3 ▾
C403.5	3 ▾	3 ▾	3 ▾
Average	3.00	2.75	2.60

6 . Course Name : C413

Course	PSO1	PSO2	PSO3
C413.1	2 ▾	3 ▾	3 ▾
C413.2	3 ▾	3 ▾	3 ▾
C413.3	3 ▾	3 ▾	3 ▾
C413.4	3 ▾	3 ▾	3 ▾
C413.5	- ▾	2 ▾	3 ▾
Average	2.75	2.80	3.00

Program Articulation Matrix

:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
ME101	1	1.5	0	1	0	3	0	3	2	3	0	3
ME102	3	2.4	2.5	1.67	2.33	0	0	0	0	0	0	1.33
ME103	3	3	3	3	0	0	0	3	3	3	3	3
ME104	3	2	2.4	2.2	0	2.6	2.75	3	1	1	0	2.8
ME105	3	2.8	2.2	2.4	3	1	1	1	2.4	2.8	1	2.6
ME106	3	3	2.8	2.2	2.2	3	1	1.5	1	2.8	1	2.6
ME107	1.6	1.67	1.67	1.67	1.75	1.67	0	1.6	1.67	1.33	0	0
ME108	3	2.8	2.2	2.2	3	1	1.2	1	2.8	2.8	1	2.6
ME109	1	1.5	0	1	0	3	0	2.5	2	3	0	3
ME110	2.6	3	2.2	1.67	2	2	0	0	0	0	1	2
ME111	3	2.4	2.5	1.67	2.33	0	0	0	0	0	0	1.33
ME112	3	3	3	3	3	3	3	0	3	3	0	3
ME113	3	2.8	2.2	2.2	3	1	1.2	1	2.8	2.8	1	2.6
ME114	1.5	3	0	3	2	0	2	0	2.67	3	2	1
ME115	3	2.8	2.2	2.2	3	1	1.2	1	2.8	2.8	1	2.6
ME116	3	2.8	2.2	2.2	3	1	1.5	1	2.8	2.8	1	2.6
ME201	3	2.6	2.5	2.5	2.5	0	3	0	0	0	0	2.5
ME202	3	2.8	2.67	2.80	2.5	3	2.5	0	0	0	0	2.4
ME203	3	2.6	2.67	2.5	2.75	0	2.33	0	0	0	0	2.4
ME204	3	2.2	2.5	2.5	2.5	0	2.67	3	0	0	0	2.4
ME205	3	2.6	2.67	0	2.8	0	0	0	3	3	0	2.4
ME206	2.8	2.6	2.5	2.67	2.6	0	0	0	3	0	0	2.5
ME207	3	2.8	2.75	2.40	2.6	0	0	0	3	0	0	2.2
ME208	3	2.8	2.6	2.6	3	0	0	0	2.5	2.5	3	3
ME210	2.8	2.6	2.8	2.6	2.6	3	2.5	3	2.67	2.5	2.5	2.8
ME211	3	2.8	3	2.6	2.6	0	0	0	0	2	0	3
ME212	3	3	2.6	2.8	2.8	0	0	0	0	2.5	0	3

ME213	3	3	3	2.8	3	0	0	0	0	2	3	3
ME214	3	3	2.6	2.6	3	0	0	0	0	2.2	0	3
ME215	3	2.6	2.6	2.67	2.67	0	0	0	0	3	0	2.6
ME216	3	2.6	2.8	2.75	3	0	0	0	0	2	0	2.4
ME219	3	2.8	3	3	2.75	0	0	0	0	2.67	0	2.6
ME301	3	2.8	2.75	2.75	2.8	0	0	0	0	2.5	3	2.67
ME302	2.6	2.6	2.75	2.67	3	3	3	0	0	2	3	2.5
ME303	2	2.75	2.5	3	0	2.5	3	0	0	3	2.75	2.4
ME304	2.8	2.8	3	3	2.67	0	0	0	0	2.5	0	2.67
ME307	3	2.6	2.75	2.75	2.6	0	0	0	0	0	0	2.75
ME310	2.8	2.60	3	3	3	2.67	2.67	3	2.5	2.5	2.6	3
ME311	2.8	2.8	2.67	2.6	2.5	0	2.5	0	3	2.75	2.5	0
ME312	2.6	2.6	2.6	2.75	2.6	3	0	0	3	2.5	3	2.8
ME317	3	2.6	2.75	2.75	2.6	0	0	0	0	2.5	0	2.67
ME320	3	3	3	3	3	0	0	0	0	0	0	0
ME321	3	3	3	2.6	3	2.5	0	0	2.5	0	0	2.6
ME322	3	2.8	3	2.5	3	3	3	0	1.4	2.2	2	2.67
ME326	3	3	2.75	3	2.6	2.67	0	0	2.67	2.5	0	0
ME328	3	3	2.60	2.75	3	2.67	0	0	2.8	3	0	0
ME329	3	3	3	3	3	2.5	0	0	3	2.67	0	0
ME330	2.6	2.6	2.6	2.67	2.6	2.5	0	3	2.75	2.5	2.67	2.8
ME336	3	2.6	3	2.75	2.75	2.5	2.5	0	3	0	3	2.5
ME401	3	2.8	3	2.75	3	0	0	0	0	0	0	2.6
ME402	3	2.6	2.67	2.60	2.6	3	3	0	0	0	0	2.67
ME403	3	2.6	2.67	2.5	2.6	0	0	0	0	0	0	2.67
ME404	2.8	2.8	3	2.6	2.6	0	2.33	0	0	0	0	2.5
ME408	2.6	2.8	2.8	2.6	2.6	2.67	3	0	2.5	0	2.75	2.75
ME410	2.8	2.6	2.6	3	2.6	0	0	0	0	0	3	2.6

ME411	2.6	2.6	3	3	3	0	0	0	0	0	3	2.75
ME412	2.5	2.75	2.6	2.67	0	3	3	0	3	3	2.5	2.6
ME413	3	2.6	3	2.50	0	3	3	3	2.6	3	3	3
ME414	2.67	3	2.6	2.75	0	2.5	2.5	3	2.8	3	3	3

Course	PSO1	PSO2	PSO3
ME101	1	1	3
ME102	1	1	1
ME103	3	2	2
ME104	2	2	2
ME105	1	1	1
ME106	2	2	2
ME107	2	2	2
ME108	1	1	1
ME109	1	1	2
ME110	1	1	1
ME111	2	2	2
ME112	2	2	2
ME113	1	1	1
ME114	1	1	2
ME115	2	2	2
ME116	1	1	1
ME201	2.8	2.6	2.75
ME202	3	2.6	2.4
ME203	3	2.67	2.6
ME204	3	2.5	2.8
ME205	2.8	2.67	2.6
ME206	2.8	2.75	2.6

ME207	2.8	2.75	2.8
ME208	2.6	2.67	3
ME210	2.8	2.5	3
ME211	3	0	2.8
ME212	3	2.67	2.6
ME213	3	0	3
ME214	3	2.6	2.8
ME215	3	2.75	3
ME216	3	2.6	3
ME219	3	2.8	3
ME301	3	3	3
ME302	3	2.8	3
ME303	2.8	2.6	2.4
ME304	2.8	2.5	3
ME307	3	2.67	3
ME310	3	2.6	3
ME311	3	2.75	3
ME312	2.8	3	2.33
ME317	3	2.25	3
ME320	2.8	2.75	3
ME321	2.75	2.75	2.5
ME322	2.8	3	2.6
ME326	3	2.67	2.2
ME328	3	3	2.6
ME329	3	2.75	2.8
ME330	2.8	2.5	3
ME336	0	2.75	2.75
ME401	3	2.75	2.8

ME402	2.6	2.75	2.6
ME403	3	2.75	2.6
ME404	3	2.75	2.6
ME408	2.8	2.75	2.8
ME410	2.6	2.8	2.6
ME411	2.8	2.8	2.6
ME412	3	2.75	2.6
ME413	2.75	2.8	3
ME414	2.75	3	3

3.2 Attainment of Course Outcomes (75)

Total Marks 75.00

3.2.1 Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based (10)

Institute Marks : 10.00

The efficiency and effectiveness of these processes defined to collect data and information that is necessary to evaluate the performance plays an essential role in outcomes assessment. We defined the following sets of methods to collect the data needed to evaluate the performance of students. From this, we also collected data need to evaluate the performance of the students in in-direct methods such as Employer Survey, Parents and Alumni Survey etc.

(A) Internal Tests/Exams:

After commencement of the semester coursework, the Department will conduct two internal tests, scheduled in accordance with the university and college calendar of events. Care will be taken such that the teaching of 2.5 units would be completed before each mid-term test. The entire exam schedule will be monitored by a Controller of Examination (CE).

- The Course Coordinator will prepare the Question papers for the respective course and will be submitted to Controller of Examination well in advance.
- The CE will conduct two IA tests as per calendar of events.
- The course coordinator will follow scheme and solutions for each test and evaluate the performance of students as per the assessment procedure.
- The student obtaining less than 60% of the maximum marks are identified and Corrective and Preventive Action (CAPA) is taken.
- The Internal assessment marks are based on average of two tests conducted (two tests are compulsory)

(B) Assignments:

The assignment is a qualitative performance assessment tool designed to assess student's knowledge of engineering practices, framework and problem solving. This is conducted twice in a semester for each course and helps in assessing the student's knowledge in analysis.

(C) Laboratory Exam Evaluation:

- The Internal Assessment marks shall be based on the laboratory reports and practical test.
- The laboratory in-charge will conduct the practical test twice in semester.
- There shall be an Internal Assessment Marks in each practical paper.
- The evaluation procedure for laboratory courses are done by the laboratory In-Charge(s) based on the following parameters:
- Divided into three components:
 - Continuous Assessment
 - Record
- Internal Test
- The External Assessment marks shall be based on the performance in practical test.

(D) External Exam

The End-Semester is completely conducted by an external Examiner unknown to the Department out of the panel constituted for the same with inputs from the Department. The performance on all five units of the syllabus is checked in the End-semester examination because the student has to answer one question from each unit.

(E) Seminar Work and Application development Evaluation:

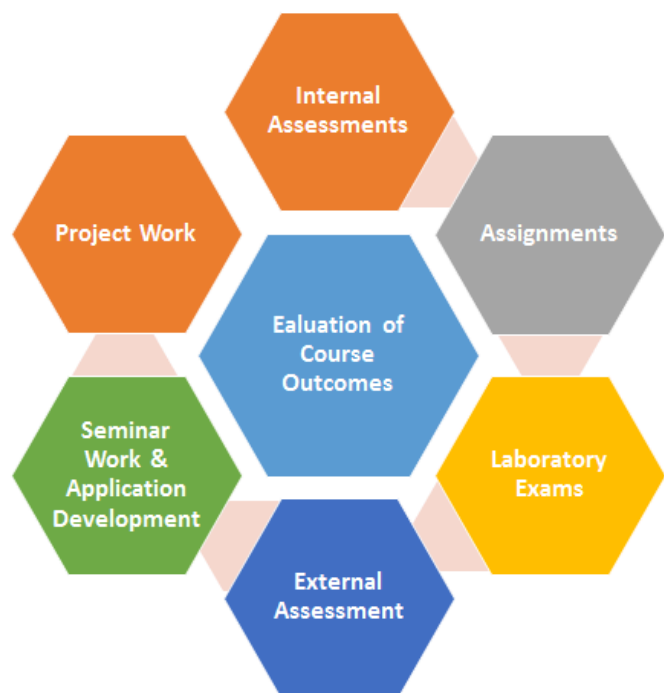
- Students are required to give seminar on a topic of their choice. The topic should be related to their discipline but can be something that is not directly related to the classroom work. These courses provide excellent platform for self-study on topic of choice of the student and create the habit of life long and independent learning. Performance in Seminar Courses is indicative of the communication skills. Seminar topic shall be selected from the emerging technical areas.
- One seminar work will be conducted by the student in the final year Second Semester and evaluated by a committee consisting of the Head of the Department and three senior faculty members of the department whom shall be the Seminar Coordinator(s).
- The Internal Assessment marks are given based on the evaluation done by the committee members (Head of the Department and Seminar Coordinator(s)) along with the guide and reviewer following the rubrics set by the department.

(F) Project Work Evaluation:

- Project work at Final year Second semester shall be completed batch wise, each batch consisting of a maximum of four candidates.
- The Project Coordinator(s) gives the instructions to the students by the end of third year and project batches are formed among the student.
- Synopsis will be submitted to the project coordinators for scrutinizing. Project Batches are allotted to the internal guides based on the specialization and competency skills of the faculties.
- The internal guide will continuously guide and monitor the students on weekly basis and get the updates of the works done by their corresponding batch of students.
- By the end of final year 1st semester zeroth review will be conducted to the students in order to approve and finalize the selected topic.
- Three project reviews will be conducted by the corresponding internal guide along with project coordinator(s) based on a schedule.
- The Internal Assessment marks in case of project shall be based on the evaluation at the end of last semester by the committee consisting of Head of the Department, Project Coordinator(s) and faculty members of the department whom shall be the project guide.
- The Internal Assessment marks will be submitted to the department once the evaluation is done.
- Viva-voce examination in project work shall be conducted batch-wise by the panel of members assigned by the university. Based on the performance of the students, the external viva voce marks are awarded and the same is submitted to the university.
- The department encourages the students to showcase their skills by publishing papers in conferences/journals forum and participating in technical paper presentations.

(G) Comprehensive viva:

- Comprehensive viva will be conducted per student in the final year Second Semester by a committee consisting of the Head of the Department and three senior faculty members of the department.
- The Internal Assessment marks are given based on the evaluation done by the committee members (Head of the Department).



3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (65)

Institute Marks : 65.00

The procedure for recording the attainment of Course Outcomes (COs) of all courses with respect to target attainment levels are explained as shown below:

THE SAMPLE COURSE OUTCOMES ASSESSMENT PROCESS/METHOD:

Academic Year:	2023 - 2024
Course Name:	ME204
Course Title:	Materials Engineering
Year / Semester:	II/I

Table: 1 Course Outcomes

ME204.1	Understand the mechanism of crystallization, methods of determining grain size and factors affecting the solid solubility
ME204.2	Use the phase diagrams of binary systems and iron-carbide diagram to select the material composition.
ME204.3	Understand the structure and properties of various cast irons, steels and non-ferrous alloys.
ME204.4	Apply the various heat treatment processes, TTT diagram, surface hardening methods & coatings depending on material requirements.
ME204.5	Understand the importance of ceramics, composites and concepts of metallurgy.

Step-1: Assessment – CO matrix (Table: 2)

Table: 2(a) Assessment – CO Matrix (Autonomous-22)

Assessment Type	Course Outcomes					
	ME204.1	ME204.2	ME204.3	ME204.4	ME204.5	Total
Final Exam	20%	20%	20%	20%	20%	100%
Subjective Test	20%	20%	20%	20%	20%	100%
Assignments	20%	20%	20%	20%	20%	100%
Average	20%	20%	20%	20%	20%	100%

Table: 2(b) Assessment- CO Matrix (Autonomous-R20)

Assessment Type	Course Outcomes					
	ME204.1	ME204.2	ME204.3	ME204.4	ME204.5	Total
Final Exam	20%	20%	20%	20%	20%	100%
Subjective Test	20%	20%	20%	20%	20%	100%
Assignments	20%	20%	20%	20%	20%	100%
Average	20%	20%	20%	20%	20%	100%

Step-2: Overall Percentage Distribution (Table: 3)

As per the **Autonomous Regulation (R22)**, the Overall Percentage Distribution is shown below which is useful in calculation of attainment of Cos

Table 3 (a): Overall Percentage Distribution

Assessment	Final Exam	Subjective Test	Assignments	Total
Total marks as per exam scheme	60	30	10	100
Overall percentage	60%	30%	10%	100%

As per the **Autonomous Regulation (R20)**, the Overall Percentage Distribution is shown below which is useful in calculation of attainment of Cos

Table 3 (b): Overall Percentage Distribution

Assessment	Final Exam	Subjective Test	Assignments	Total
Total marks as per exam scheme	70	24	6	100
Overall percentage	70%	24%	6%	100%

Table 3(c): Overall Percentage Distribution for Labs (R22)

Assessment	Final Exam(60m)	Internal (40m)			Total
Total marks as per scheme	60m	Continuous Evaluation		Internal Exam	100
		Perf of Exp	Rec & Obs	25	
		10	5		
Overall Percentage	60%	10%	5%	25%	100

Table 3(d): Overall Percentage Distribution for Labs (R20)

Assessment	Final Exam(60m)	Internal (40m)			Total
Total marks as per scheme	70m	Continuous Evaluation		Internal Exam	100
		Perf of Exp	Rec & Obs	24	
		3	3		
Overall Percentage	70%	3%	3%	24%	100

Step-3: Student Marks according to each assessment group (Table: 4)

Table: 4.a Student Marks according to each Assessment Group

ME204: Materials Engineering					
S. No	Roll No	Internal Assessment		Final Exam	GPs
		Subjective	Assignment		
1	22N31A0304	27	10	43	
2	22N31A0306	28	10	43	
3	22N31A0317	22	9	0	
4	22N31A0318	24	10	42	
5	22N31A0319	25	10	41	
6	22N31A0320	26	10	37	
7	22N31A0321	23	10	36	
8	22N31A0322	27	9	41	
9	22N31A0328	18	8	35	
10	22N31A0330	24	8	31	
11	23N35A0301	22	9	45	
12	23N35A0302	24	8	49	
13	23N35A0303	27	8	52	
14	23N35A0304	28	8	43	
15	23N35A0305	28	9	38	

Step-4: Defining Normalized Equation to obtain Course Outcome Attainment (Table 4)

$$CO1 = (0.2 * FE * 0.60) + (0.2 * Sub * 0.3) + (0.2 * A * 0.1)$$

$$CO2 = (0.2 * FE * 0.60) + (0.2 * Sub * 0.3) + (0.2 * A * 0.1)$$

$$CO3 = (0.2 * FE * 0.60) + (0.2 * Sub * 0.3) + (0.2 * A * 0.1)$$

$$CO4 = (0.2 * FE * 0.60) + (0.2 * Sub * 0.3) + (0.2 * A * 0.1)$$

$$CO5 = (0.2 * FE * 0.60) + (0.2 * Sub * 0.3) + (0.2 * A * 0.1)$$

Where

FE –Students Final Exam Marks

Sub- Students Subjective Test Marks

A-Students Assignment Marks

Step-5: Course outcome Attainment according to CO% of Assessment methods (Table: 4)

Using the formula defined in Step-4, Course Outcome Attainment is calculated for all the students and a sample for 15 students is shown below.



S.No	Roll Number	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
1	22N31A0304	6.98	6.98	6.98	6.98	6.98
2	22N31A0306	7.04	7.04	7.04	7.04	7.04
3	22N31A0317	1.86	1.86	1.86	1.86	1.86
4	22N31A0318	6.68	6.68	6.68	6.68	6.68
5	22N31A0319	6.62	6.62	6.62	6.62	6.62
6	22N31A0320	6.20	6.20	6.20	6.20	6.20
7	22N31A0321	5.90	5.90	5.90	5.90	5.90
8	22N31A0322	6.72	6.72	6.72	6.72	6.72
9	22N31A0329	5.44	5.44	5.44	5.44	5.44
10	22N31A0330	5.32	5.32	5.32	5.32	5.32
11	23N35A0301	6.90	6.90	6.90	6.90	6.90
12	23N35A0302	7.48	7.48	7.48	7.48	7.48
13	23N35A0303	8.02	8.02	8.02	8.02	8.02
14	23N35A0304	7.00	7.00	7.00	7.00	7.00
15	23N35A0305	6.42	6.42	6.42	6.42	6.42

Step-6: Setting up a target for each CO

While defining the normalized equation for the target value of individual COs the following consideration are done

- 42% of Final Exam Marks
- 60 % of Subjective Marks
- 60% of Assignment Marks

In addition to the above list Overall percentage distribution in Table 2(a) and Average of individual Cos in Table (1) are considered.

R-22

Target for CO1= $((0.60*25.2) + (0.3*18) + (0.1*6))*0.2$

Target for CO2= $((0.60*25.2) + (0.3*18) + (0.1*6))*0.2$

Target for CO3= $((0.60*25.2) + (0.3*18) + (0.1*6))*0.2$

Target for CO4= $((0.60*25.2) + (0.3*18) + (0.1*6))*0.2$

Target for CO5= $((0.60*25.2) + (0.3*18) + (0.1*6))*0.2$

R-20

Target for CO1= $((0.70*29.4) + (0.24*14.4) + (0.06*3.6))*0.2$

Target for CO2= $((0.70*29.4) + (0.24*14.4) + (0.06*3.6))*0.2$

Target for CO3= $((0.70*29.4) + (0.24*14.4) + (0.06*3.6))*0.2$

Target for CO4= $((0.70*29.4) + (0.24*14.4) + (0.06*3.6))*0.2$

Target for CO5= $((0.70*29.4) + (0.24*14.4) + (0.06*3.6))*0.2$

Similar procedure is followed for Labs

Step-7: Assessment of CO Attainment (Table: 5)

Find the percentage of students who reached the target of each individual COs (Step-6) using table 4.

If 70% and above of Students have reached the target then the Attainment Level is 3

If 60% to 69% of Students have reached the target then the Attainment Level is 2

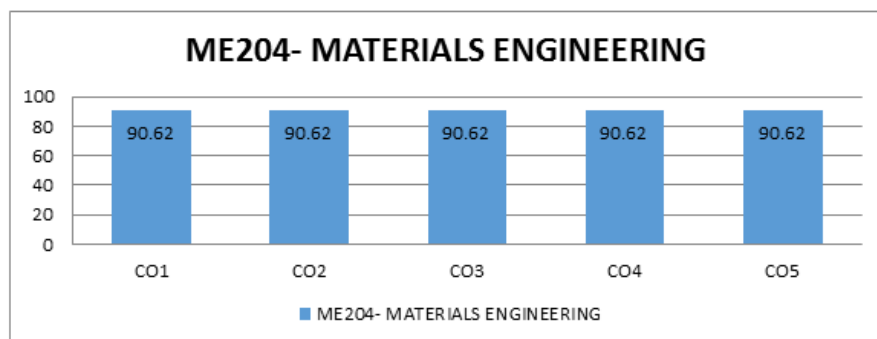
If 50% to 59% of Students have reached the target then the Attainment Level is 1

Below 50% then that particular CO is not attained.

The CO attainments are tabulated as follows

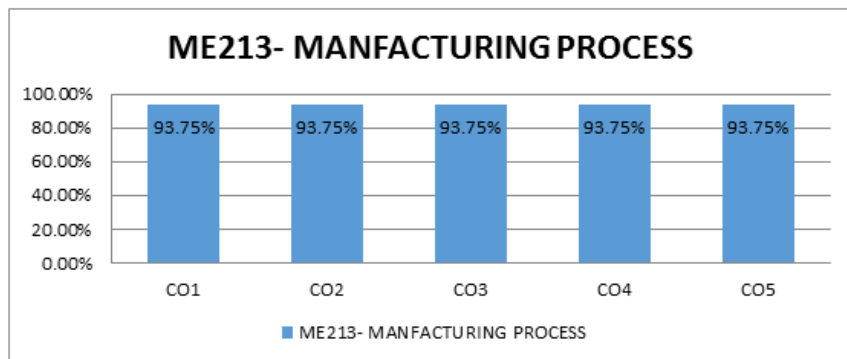
Course Outcomes	ME204.1	ME204.2	ME204.3	ME204.4	ME204.5
Target value	4.224	4.224	4.224	4.224	4.224
No. of students reached target	29	29	29	29	29
% Of students achieved target	90.62%	90.62%	90.62%	90.62%	90.62%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



Course Outcomes	ME213.1	ME213.2	ME213.3	ME213.4	ME213.5
Target value	4.224	4.224	4.224	4.224	4.224
No. of students reached target	30	30	30	30	30
% Of students achieved target	93.75%	93.75%	93.75%	93.75%	93.75%
Attainment level	3	3	3	3	3

The graphical representation is as shown below

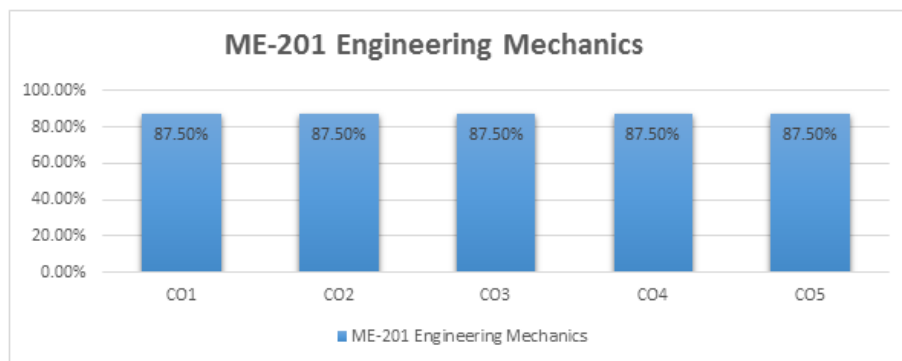


R20



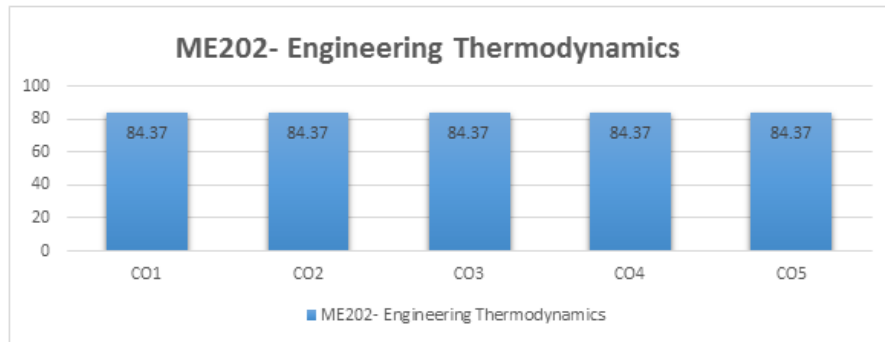
Course Outcomes	ME201.1	ME201.2	ME201.3	ME201.4	ME201.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	56	56	56	56	56
% Of students achieved target	87.5%	87.5%	87.5%	87.5%	87.5%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



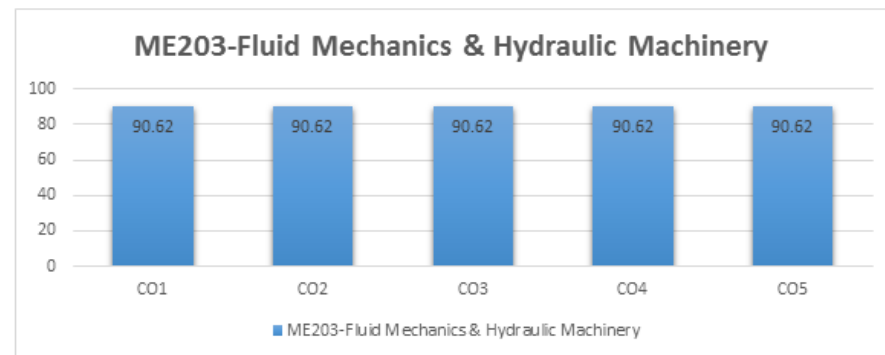
Course Outcomes	ME202.1	ME202.2	ME202.3	ME202.4	ME202.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	54	54	54	54	54
% Of students achieved target	84.37%	84.37%	84.37%	84.37%	84.37%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



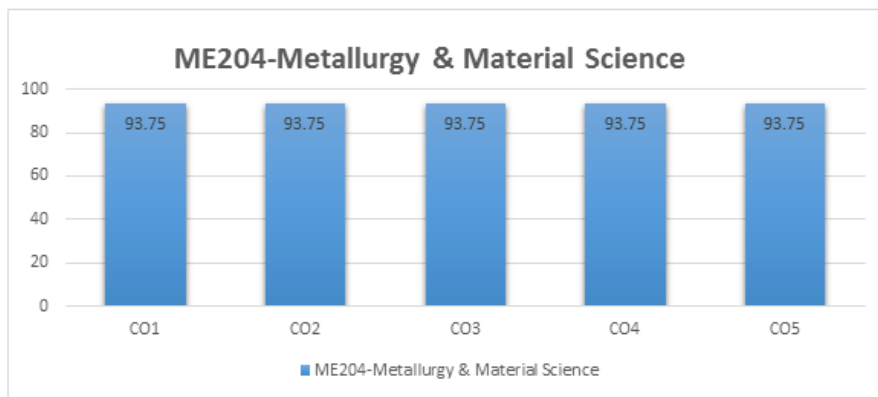
Course Outcomes	ME203.1	ME203.2	ME203.3	ME203.4	ME203.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	58	58	58	58	58
% Of students achieved target	90.62%	90.62%	90.62%	90.62%	90.62%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



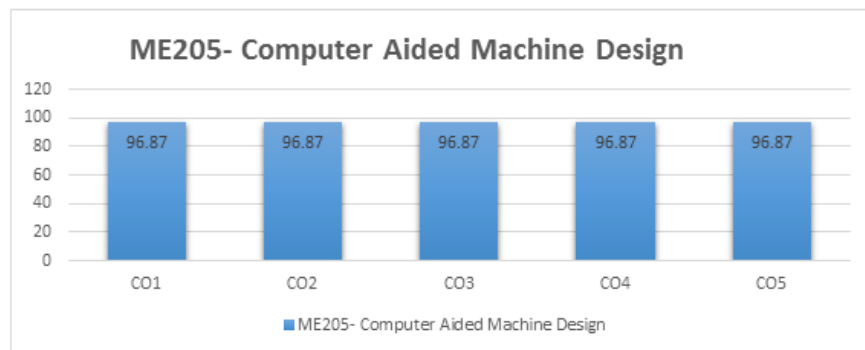
Course Outcomes	ME204.1	ME204.2	ME204.3	ME204.4	ME204.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	60	60	60	60	60
% Of students achieved target	93.75%	93.75%	93.75%	93.75%	93.75%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



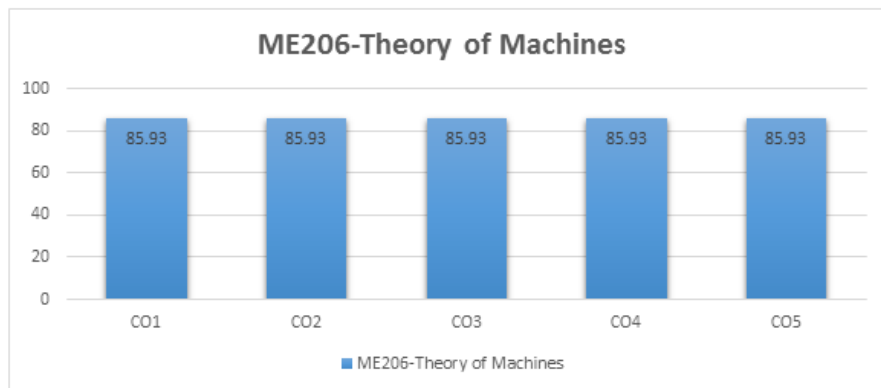
Course Outcomes	ME205.1	ME205.2	ME205.3	ME205.4	ME205.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	62	62	62	62	62
% Of students achieved target	96.87%	96.87%	96.87%	96.87%	96.87%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



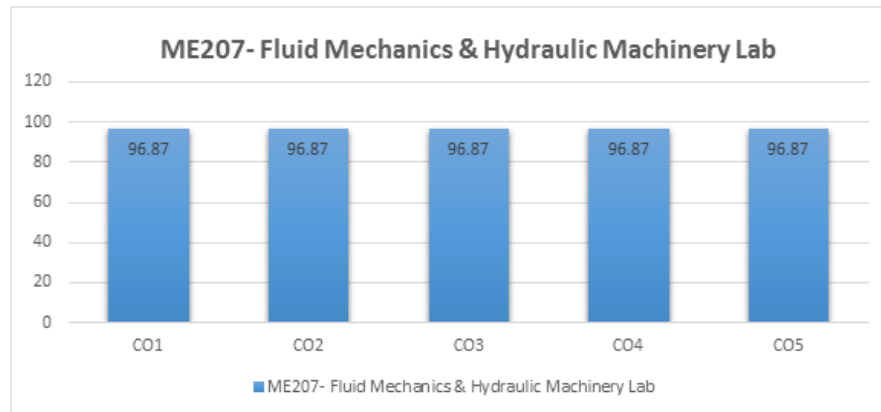
Course Outcomes	ME206.1	ME206.2	ME206.3	ME206.4	ME206.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	55	55	55	55	55
% Of students achieved target	85.93%	85.93%	85.93%	85.93%	85.93%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



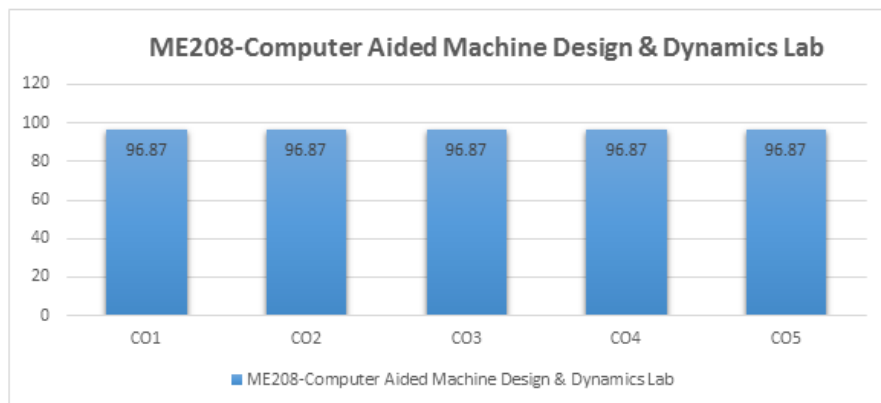
Course Outcomes	ME207.1	ME207.2	ME207.3	ME207.4	ME207.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	62	62	62	62	62
% Of students achieved target	96.87%	96.87%	96.87%	96.87%	96.87%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



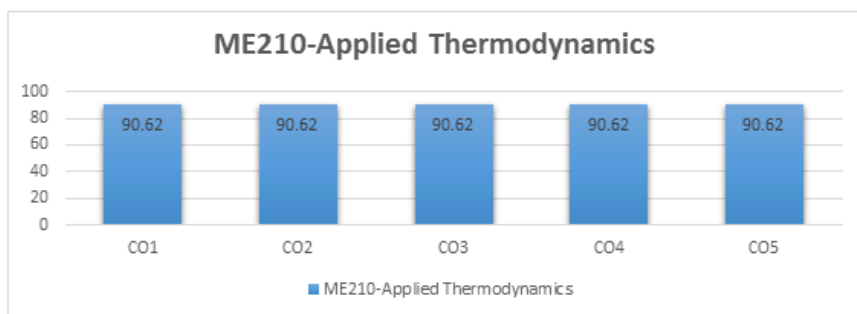
Course Outcomes	ME208.1	ME208.2	ME208.3	ME208.4	ME208.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	62	62	62	62	62
% Of students achieved target	96.87%	96.87%	96.87%	96.87%	96.87%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



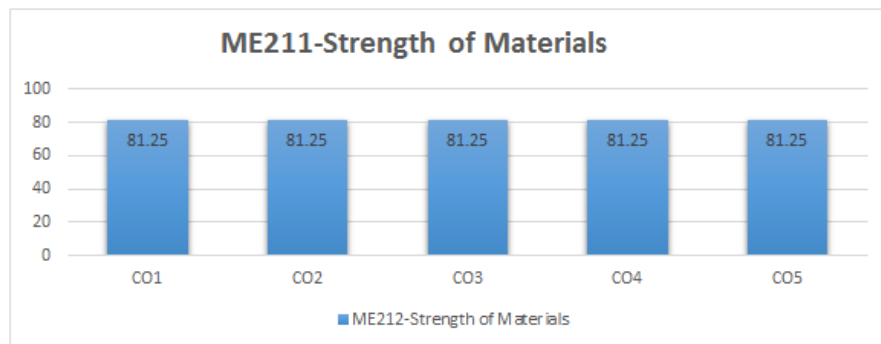
Course Outcomes	ME210.1	ME210.2	ME210.3	ME210.4	ME210.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	58	58	58	58	58
% Of students achieved target	90.62%	90.62%	90.62%	90.62%	90.62%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



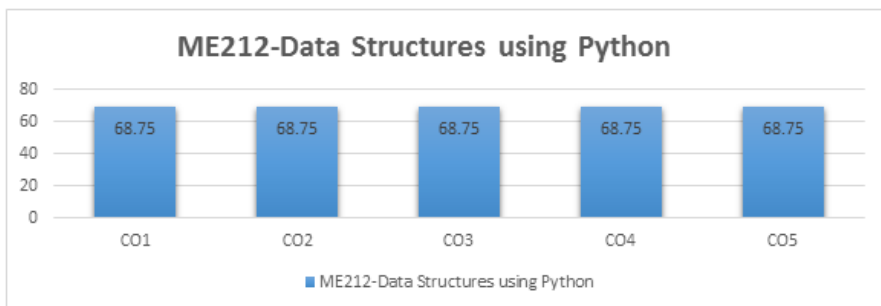
Course Outcomes	ME211.1	ME211.2	ME211.3	ME211.4	ME211.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	52	52	52	52	52
% Of students achieved target	81.25%	81.25%	81.25%	81.25%	81.25%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



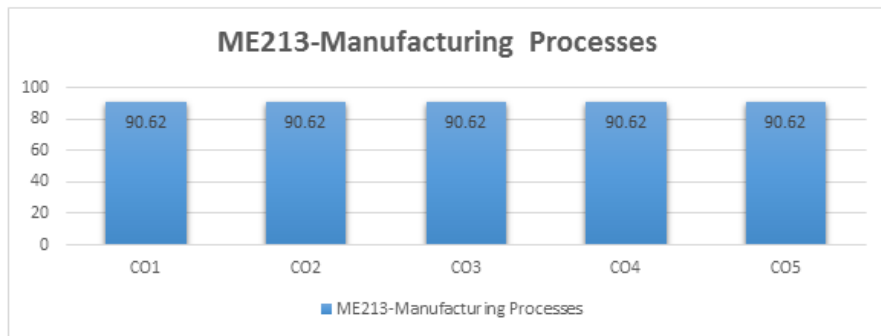
Course Outcomes	ME212.1	ME212.2	ME212.3	ME212.4	ME212.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	44	44	44	44	44
% Of students achieved target	68.75%	68.75%	68.75%	68.75%	68.75%
Attainment level	2	2	2	2	2

The graphical representation is as shown below



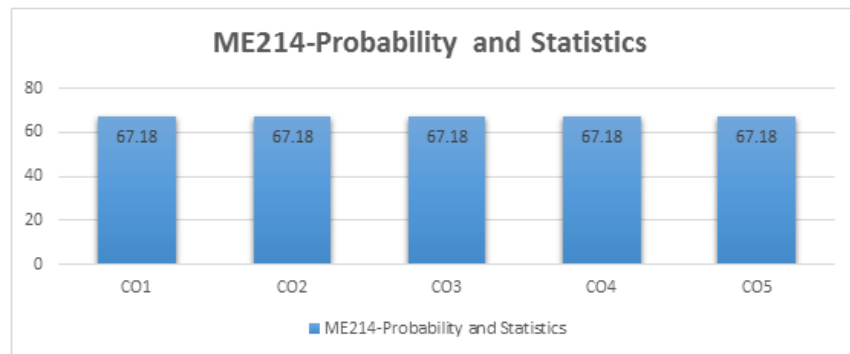
Course Outcomes	ME213.1	ME213.2	ME213.3	ME213.4	ME213.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	58	58	58	58	58
% Of students achieved target	90.62%	90.62%	90.62%	90.62%	90.62%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



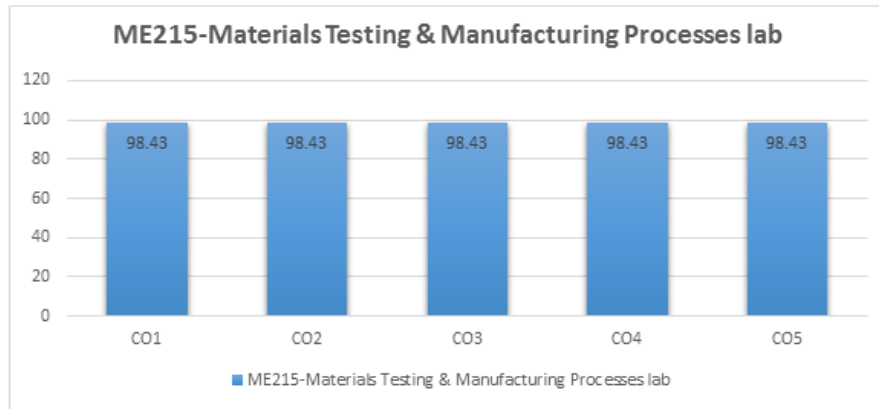
Course Outcomes	ME214.1	ME214.2	ME214.3	ME214.4	ME214.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	43	43	43	43	43
% Of students achieved target	67.18%	67.18%	67.18%	67.18%	67.18%
Attainment level	2	2	2	2	2

The graphical representation is as shown below



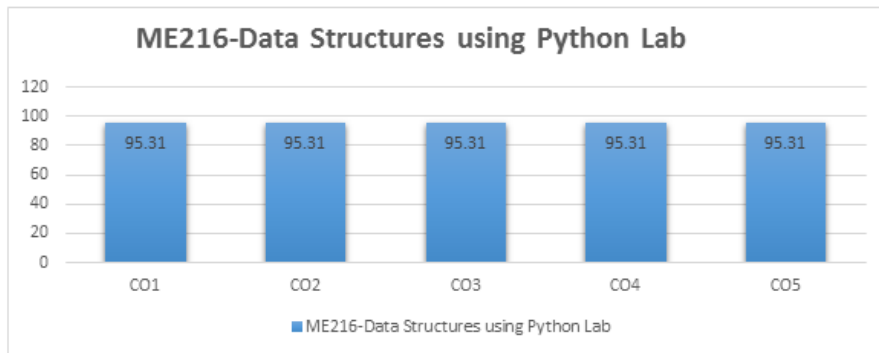
Course Outcomes	ME215.1	ME215.2	ME215.3	ME215.4	ME215.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	63	63	63	63	63
% Of students achieved target	98.43%	98.43%	98.43%	98.43%	98.43%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



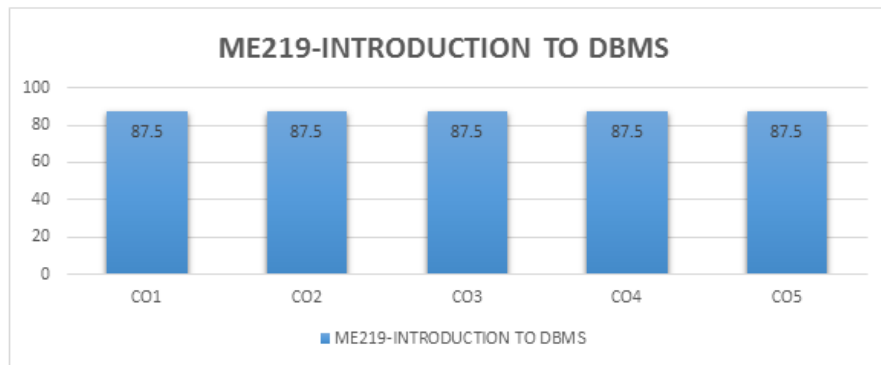
Course Outcomes	ME216.1	ME216.2	ME216.3	ME216.4	ME216.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	61	61	61	61	61
% Of students achieved target	95.31%	95.31%	95.31%	95.31%	95.31%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



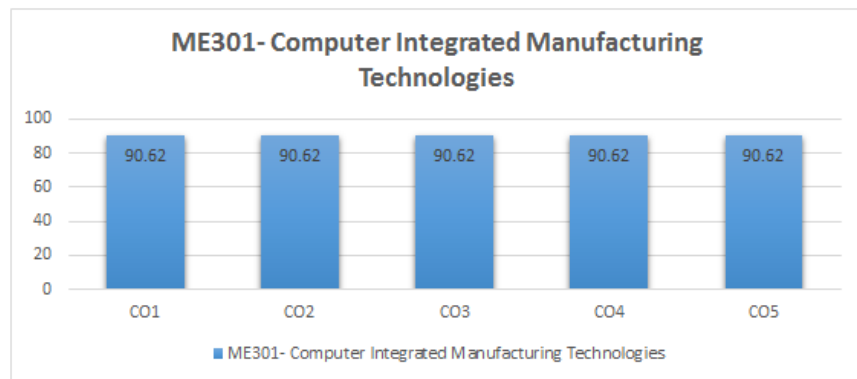
Course Outcomes	ME219.1	ME219.2	ME219.3	ME219.4	ME219.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	56	56	56	56	56
% Of students achieved target	87.5%	87.5%	87.5%	87.5%	87.5%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



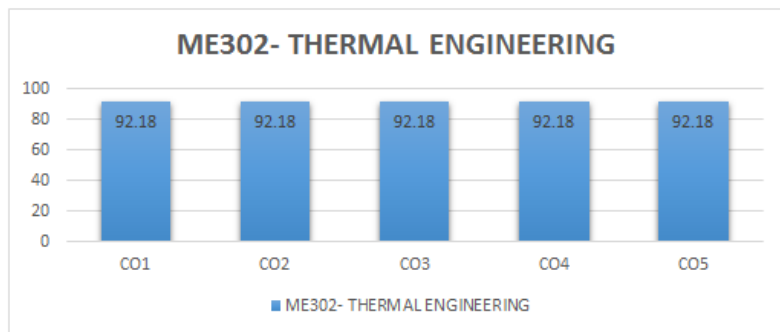
Course Outcomes	ME301.1	ME301.2	ME301.3	ME301.4	ME301.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	58	58	58	58	58
% Of students achieved target	90.62%	90.62%	90.62%	90.62%	90.62%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



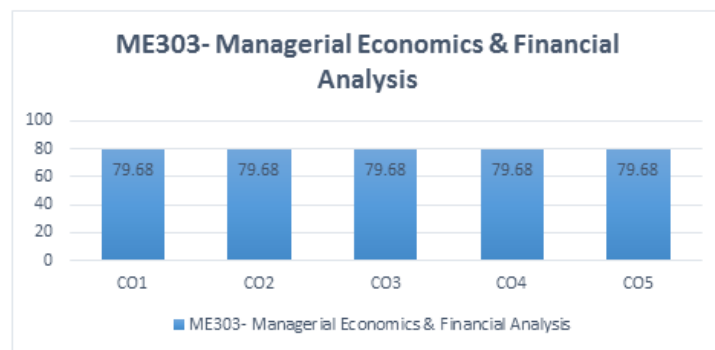
Course Outcomes	ME302.1	ME302.2	ME302.3	ME302.4	ME302.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	59	59	59	59	59
% Of students achieved target	92.18%	92.18%	92.18%	92.18%	92.18%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



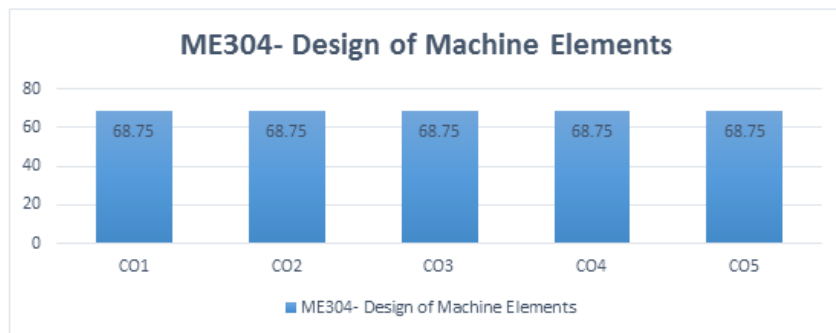
Course Outcomes	ME303.1	ME303.2	ME303.3	ME303.4	ME303.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	51	51	51	51	51
% Of students achieved target	79.68%	79.68%	79.68%	79.68%	79.68%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



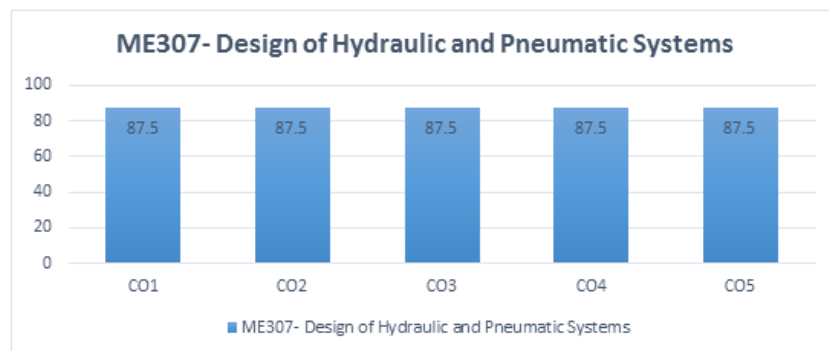
Course Outcomes	ME304.1	ME304.4	ME304.3	ME304.4	ME304.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	44	44	44	44	44
% Of students achieved target	68.75%	68.75%	68.75%	68.75%	68.75%
Attainment level	2	2	2	2	2

The graphical representation is as shown below



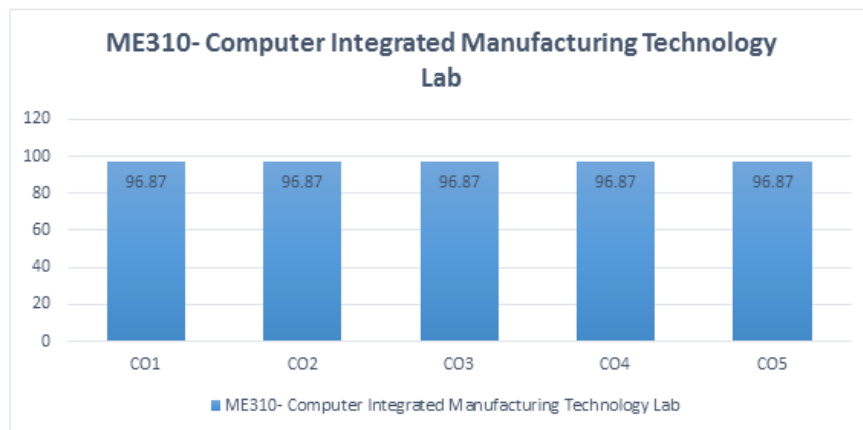
Course Outcomes	ME307.1	ME307.2	ME307.3	ME307.4	ME307.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	56	56	56	56	56
% Of students achieved target	87.5%	87.5%	87.5%	87.5%	87.5%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



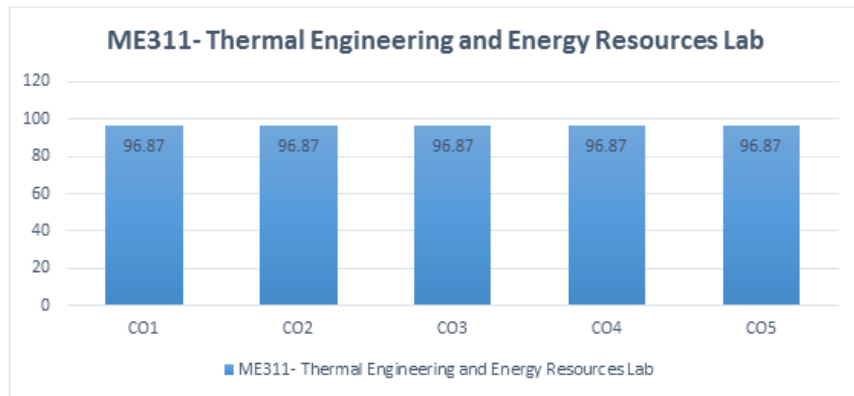
Course Outcomes	ME310.1	ME310.2	ME310.3	ME310.4	ME310.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	62	62	62	62	62
% Of students achieved target	96.87%	96.87%	96.87%	96.87%	96.87%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



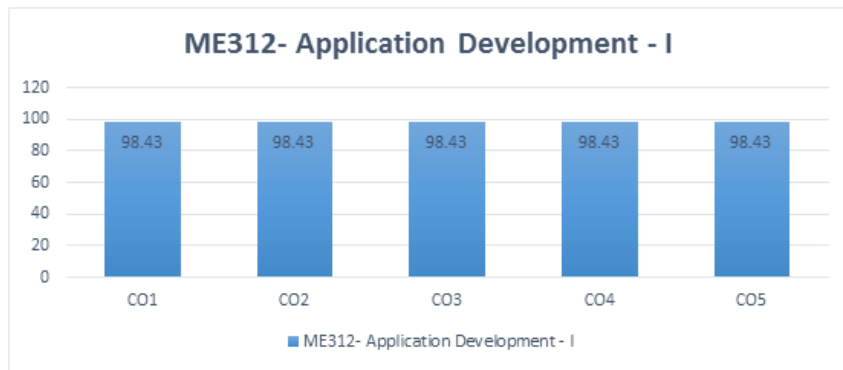
Course Outcomes	ME311.1	ME311.2	ME311.3	ME311.4	ME311.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	62	62	62	62	62
% Of students achieved target	96.87%	96.87%	96.87%	96.87%	96.87%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



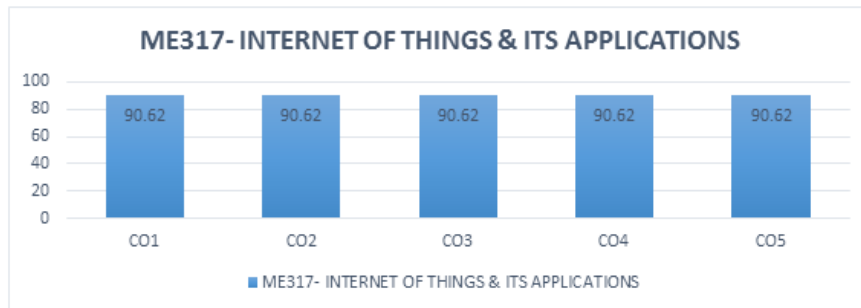
Course Outcomes	ME312.1	ME312.2	ME312.3	ME312.4	ME312.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	63	63	63	63	63
% Of students achieved target	98.43%	98.43%	98.43%	98.43%	98.43%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



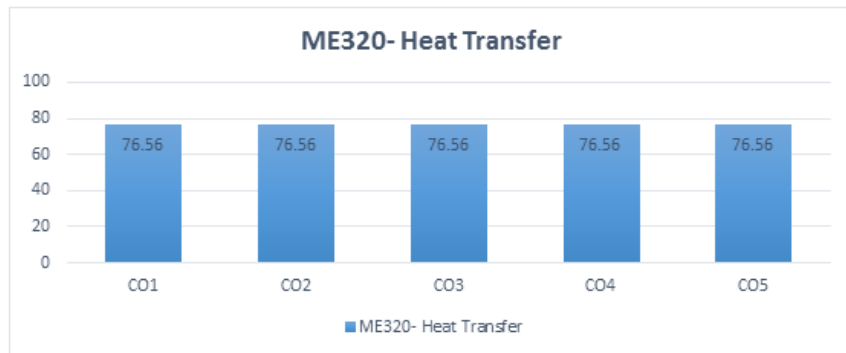
Course Outcomes	ME317.1	ME317.2	ME317.3	ME317.4	ME317.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	58	58	58	58	58
% Of students achieved target	90.62%	90.62%	90.62%	90.62%	90.62%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



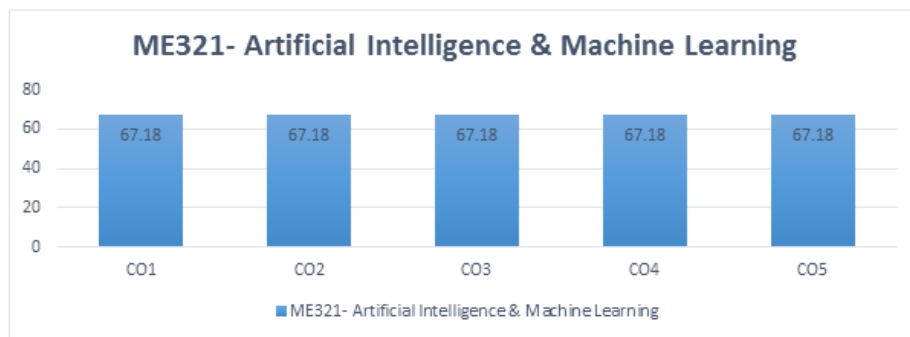
Course Outcomes	ME320.1	ME320.2	ME320.3	ME320.4	ME320.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	49	49	49	49	49
% Of students achieved target	76.56%	76.56%	76.56%	76.56%	76.56%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



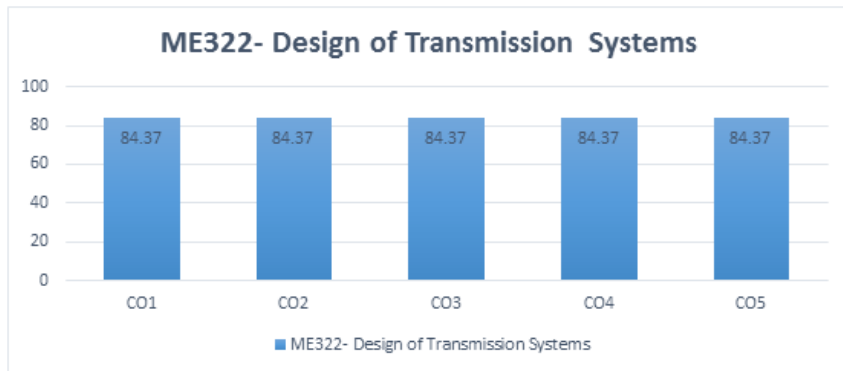
Course Outcomes	ME321.1	ME321.2	ME321.3	ME321.4	ME321.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	43	43	43	43	43
% Of students achieved target	67.18%	67.18%	67.18%	67.18%	67.18%
Attainment level	2	2	2	2	2

The graphical representation is as shown below



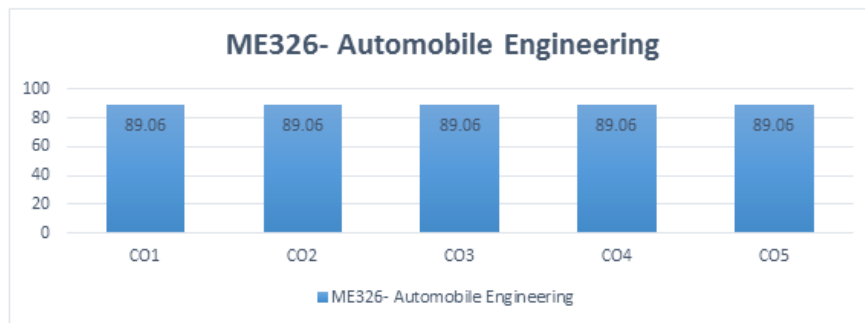
Course Outcomes	ME322.1	ME322.2	ME322.3	ME322.4	ME322.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	54	54	54	54	54
% Of students achieved target	84.37%	84.37%	84.37%	84.37%	84.37%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



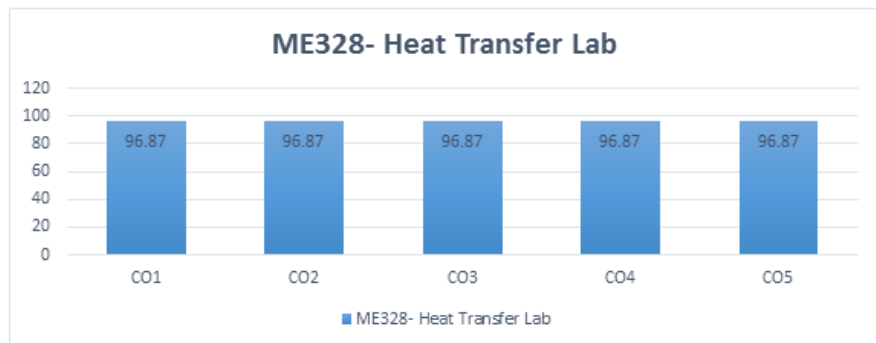
Course Outcomes	ME326.1	ME326.2	ME326.3	ME326.4	ME326.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	57	57	57	57	57
% Of students achieved target	89.06%	89.06%	89.06%	89.06%	89.06%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



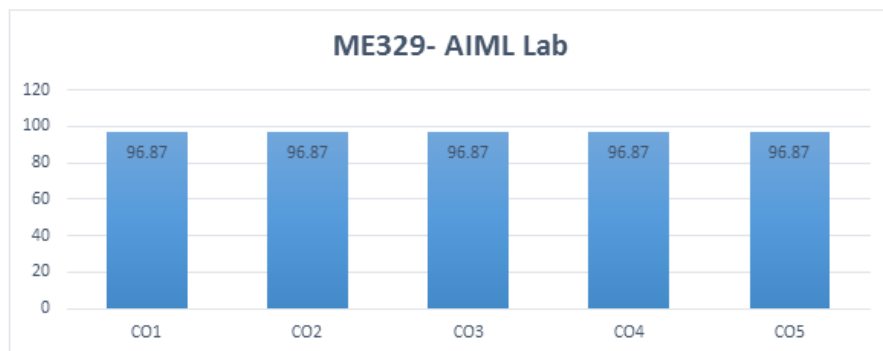
Course Outcomes	ME328.1	ME328.2	ME328.3	ME328.4	ME328.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	62	62	62	62	62
% Of students achieved target	96.87%	96.87%	96.87%	96.87%	96.87%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



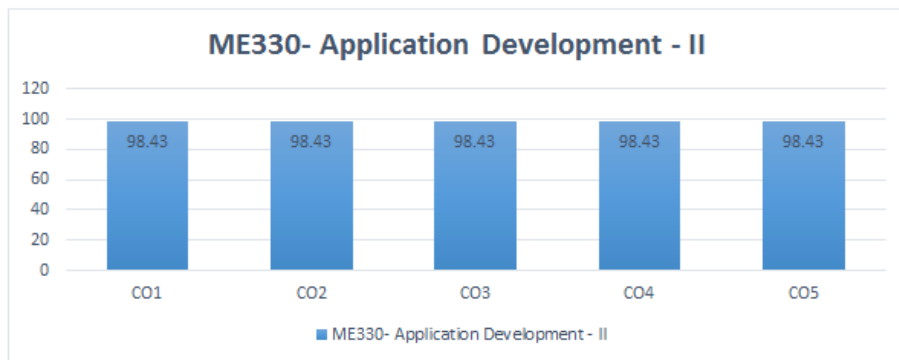
Course Outcomes	ME329.1	ME329.2	ME329.3	ME329.4	ME329.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	62	62	62	62	62
% Of students achieved target	96.87%	96.87%	96.87%	96.87%	96.87%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



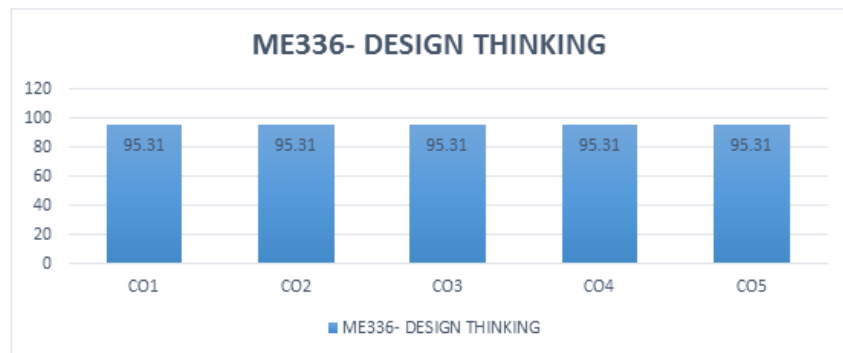
Course Outcomes	ME330.1	ME330.2	ME330.3	ME330.4	ME330.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	63	63	63	63	63
% Of students achieved target	98.43%	98.43%	98.43%	98.43%	98.43%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



Course Outcomes	ME336.1	ME336.2	ME336.3	ME336.4	ME336.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	61	61	61	61	61
% Of students achieved target	95.31%	95.31%	95.31%	95.31%	95.31%
Attainment level	3	3	3	3	3

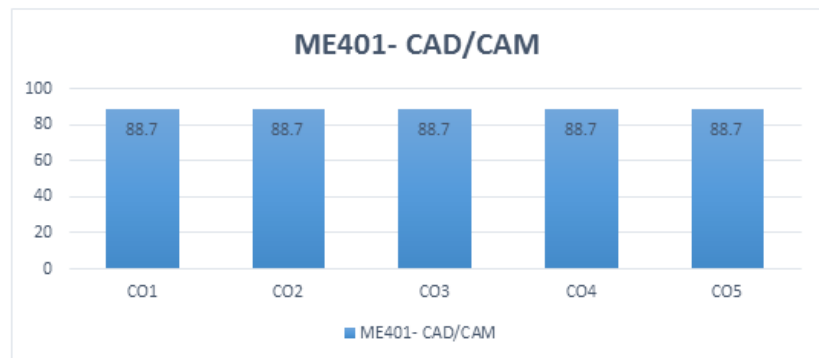
The graphical representation is as shown below



The graphical representation is as shown below

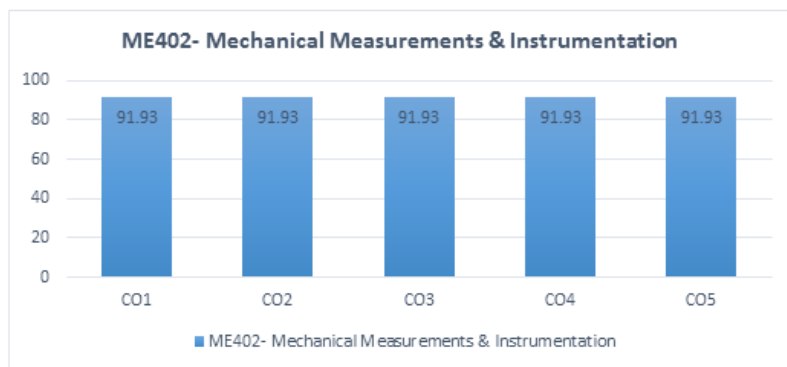
Course Outcomes	ME401.1	ME401.2	ME401.3	ME401.4	ME401.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	55	55	55	55	55
% Of students achieved target	88.70%	88.70%	88.70%	88.70%	88.70%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



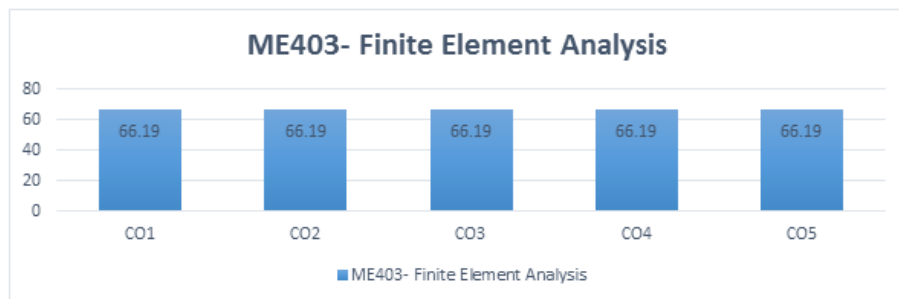
Course Outcomes	ME402.1	ME402.2	ME402.3	ME402.4	ME402.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	57	57	57	57	57
% Of students achieved target	91.93%	91.93%	91.93%	91.93%	91.93%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



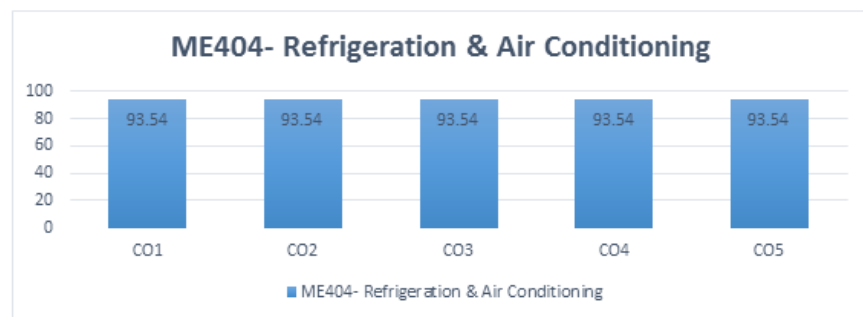
Course Outcomes	ME403.1	ME403.2	ME403.3	ME403.4	ME403.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	41	49	49	49	49
% Of students achieved target	66.19	66.19	66.19	66.19	66.19
Attainment level	2	2	2	2	2

The graphical representation is as shown below



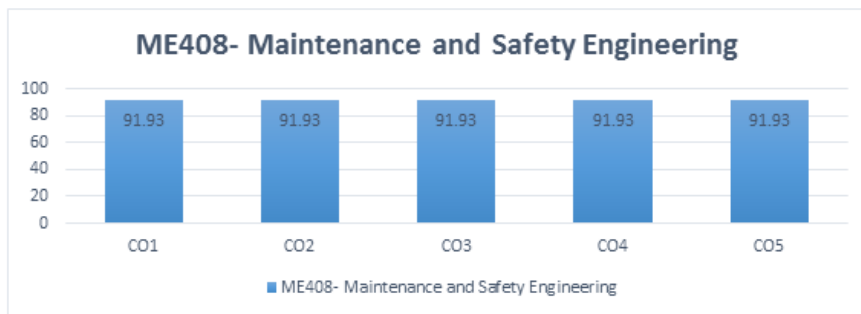
Course Outcomes	ME404.1	ME404.2	ME404.3	ME404.4	ME404.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	58	58	58	58	58
% Of students achieved target	93.54%	93.54%	93.54%	93.54%	93.54%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



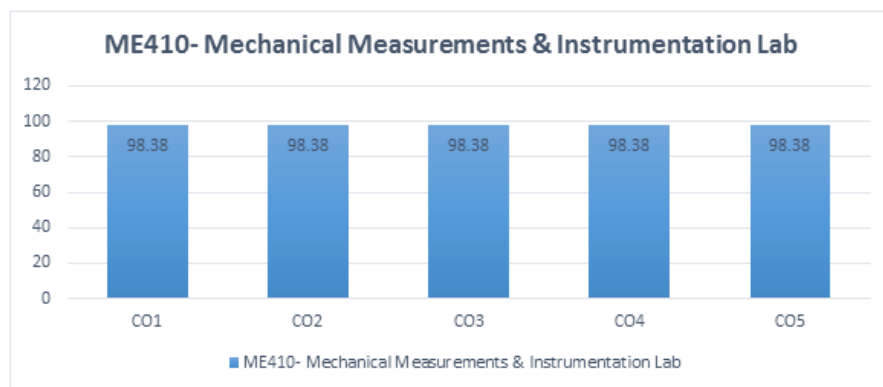
Course Outcomes	ME408.1	ME408.2	ME408.3	ME408.4	ME408.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	57	57	57	57	57
% Of students achieved target	91.93%	91.93%	91.93%	91.93%	91.93%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



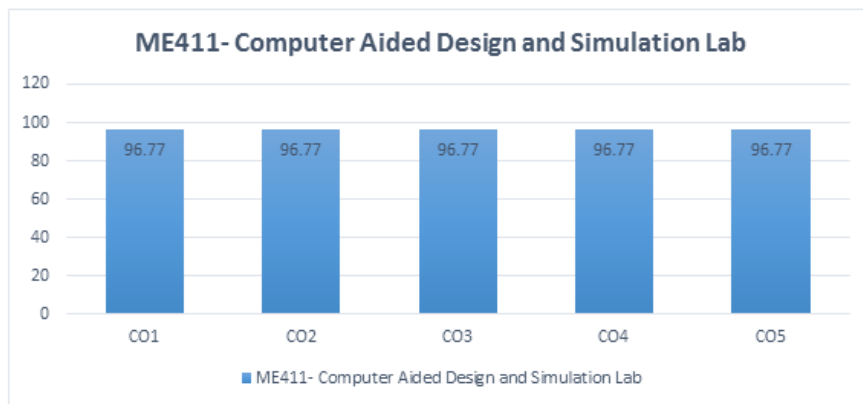
Course Outcomes	ME410.1	ME410.2	ME410.3	ME410.4	ME410.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	61	61	61	61	61
% Of students achieved target	98.38%	98.38%	98.38%	98.38%	98.38%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



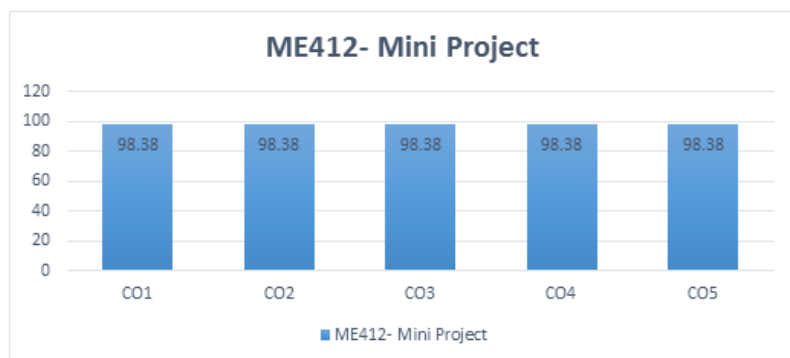
Course Outcomes	ME411.1	ME411.2	ME411.3	ME411.4	ME411.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	60	60	60	60	60
% Of students achieved target	96.77%	96.77%	96.77%	96.77%	96.77%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



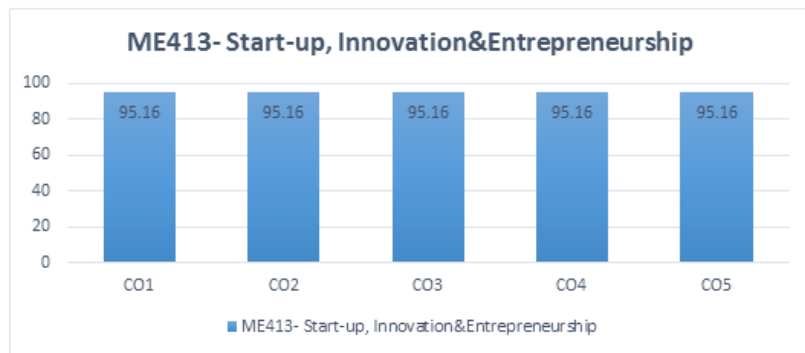
Course Outcomes	ME412.1	ME412.2	ME412.3	ME412.4	ME412.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	61	61	61	61	61
% Of students achieved target	98.38%	98.38%	98.38%	98.38%	98.38%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



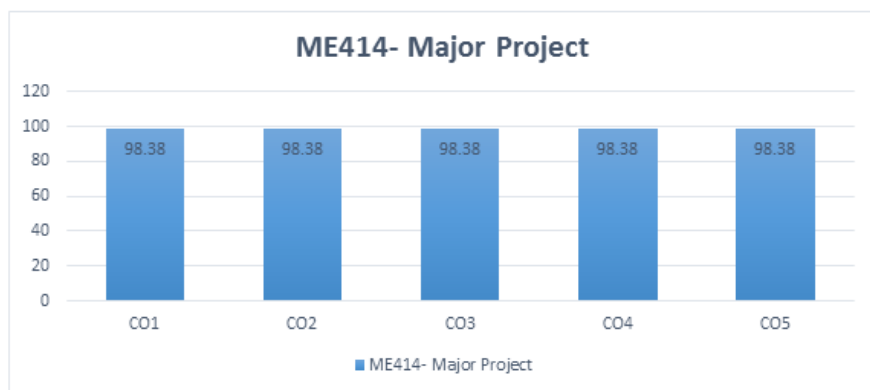
Course Outcomes	ME413.1	ME413.2	ME413.3	ME413.4	ME413.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	59	59	59	59	59
% Of students achieved target	95.16%	95.16%	95.16%	95.16%	95.16%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



Course Outcomes	ME414.1	ME414.2	ME414.3	ME414.4	ME414.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	61	61	61	61	61
% Of students achieved target	98.38%	98.38%	98.38%	98.38%	98.38%
Attainment level	3	3	3	3	3

The graphical representation is as shown below



3.3 Attainment of Program Outcomes and Program Specific Outcomes (75)

Total Marks 75.00

3.3.1 Describe assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes (10)

Institute Marks : 10.00

PO and PSO target versus Attainment level

In Outcome based Education, assessment done through one or more than one processes, carried out by the institution, that identify, collect, and prepare data to evaluate the achievement of programme educational objectives, program outcomes and course objectives and outcomes/PSO assessment is done by giving 80% weightage to direct assessment and 20% weightage to indirect assessment.

Direct assessment is based on CO attainment, where 70% weightage is given to attainment through university exam and 30% weightage is given to attainment through internal assessments. Indirect assessment is done through Graduate exit survey, Employer survey and alumni survey where Graduate exit survey and alumni survey.

PO Assessment Tools:

Assessment tools are categorized into two methods, there are

- Direct Assessment method and
- In - Direct Assessment method

In order to assess the programme educational objectives, program outcomes and course outcomes.

Direct Assessment method

Direct methods display the student's knowledge and skills from their performance in the continuous assessment tests, end-semester examinations, presentations, and classroom assignments etc. these methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.

Direct Assessment methods are formative as well as summative.

For some of the POs that are abstract, rubrics has been designed using performance indicators and shared with the students in advance. This helps students understand against which parameter their work will be judged with the "scoring rules". These rubrics can be used by students in, revising, and judging their own work and progress.

Assignment / Quiz / Class Test

The assignment, Quiz and class test are a qualitative performance assessment tool designed to assess students' knowledge of engineering practices, framework, and problem solving. An analytic rubric was developed to assess students' knowledge with respect to the learning outcomes associated with the scenario tool.

Midterm exams

End semester exam (theory + practical) Midterm and semester End examination are metric for assessing whether all the POs are attained or not. Examination is more focused on attainment of course outcomes and program outcomes.

Lab practical

This is mainly to assess student's practical knowledge with their designing capabilities. Course Evaluation At the end of every semester, students give feedback for the course taught to them. In this feedback survey students tell how effective course was in order to achieve POs.

In-Direct Assessment method

Indirect methods such as surveys and interviews ask the stakeholders to reflect on student's learning. They assess opinions or thoughts about the graduate's knowledge or skills and their valued by different stakeholders.

Alumni Survey

Collect variety of information about program satisfaction, from Graduates end after every year.

Employer Survey

Provide information about our graduates skills and capability. – After every year.

Student exit survey

To evaluate the success of program in providing students with opportunities to achieve the programme outcomes- every year, since an outcome can be achieved in more than one course, while assessing a specific outcome, number of courses are assessed and both core and electives course are assessed.

Table shows different types of Assessment and assessment tools.



Type of Assessment	Assessment Tool	Assessment Criteria	Data Collection Frequency	Responsible Entry
Direct	Internal	Marks	Twice in the Semester	Department
	External	Marks	After every Semester	Department
In-Direct	Alumni Survey	Level of achievement	Once in a year	Department
	Employer Survey		Once in a year	Department
	Graduate Survey		Once in a year	Department

Since each course is defined to address specific program outcomes, course assessment is used to map attainment of course outcomes to assess whether 12 program outcomes are attained.

Table: 1 Assessment Tools Used for recording PO & PSO attainment



Assessment Tools	Direct/Indirect	Remarks
External Exam	Direct	Conducted by the College/ University during each semester for every course.
Oral Exams/Viva Voce	Direct	Viva Voce conducted during lab sessions. End semester course viva is also used to measure the same.
Project Evaluation	Direct	Project Evaluation conducted among the students towards the end of their final year.
Course Evaluation	Direct	Course evaluation is collected from the faculty at the end of each semester. Mode of evaluation is Semester exam, Series test, Assignments and Seminars.
Alumni Survey	Indirect	Alumni Survey conducted among alumni at the end of each academic year.
Employer Survey	Indirect	Employer Survey conducted among the employers both as formal & informal mode of communication
Student Exit survey	Indirect	Student Exit survey conducted among the graduates
Parents Survey	Indirect	Survey conducted among the parents of the graduated students

The procedure for direct attainment of program outcomes and program specific outcomes is as follows:

For example

here we have considered only 6 subjects each per semester

For the attainment calculation we have considered the information obtained from the section 3.2.2 i.e., the COs attained (the COs highlighted are according to the mappings done in 3.1 the CO-PO & CO-PSO matrices).

Average of the COs highlighted are taken for each subject for individual POs & PSOs

For example:

The same attainment process is tabulated as follows and has been used to fill the data in Section 3.3.2

Table 2: Direct Attainment of PO1

Courses	Course Outcomes					Average
	CO1	CO2	CO3	CO4	CO5	
ME204 (ME)	3	3	3	3	2	2.8
ME213 (MP)	3	3	3	3	3	3
ME302 (TE)	3	3	3	3	3	3
ME322 (OTS)	3	3	3	3	3	3
ME403 (FEA)	2	2	2	2	2	2
ME413 (SIE)	3	3		3		3

Table 3: Direct Attainment of PSO3

Courses	Course Outcomes					Average
	CO1	CO2	CO3	CO4	CO5	
ME204 (ME)	3	2	3	3	3	2.8
ME213 (MP)	3	3	3	3	3	3
ME302 (TE)	3		3	3	3	3
ME322 (OTS)	3	3	2	3	2	2.6
ME403 (FEA)	1.3	1.3	2	2	2	1.73
ME413 (SIE)	3	3	3	3	3	3

Indirect Attainment

	PROGRAM OUTCOMES												PROGRAM SPECIFIC OUTCOMES		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Employer Survey (Industry Survey)	2.86	2.75	2.67	2.61	2.78	2.65	2.67	2.67	2.67	2.67	2.72	2.83	2.75	2.74	2.67
Alumni Survey	2.73	2.75	2.61	2.75	2.72	2.82	2.81	2.81	2.79	2.61	2.72	2.24	2.52	2.69	2.67
Parents Survey	2.63	2.73	2.83	2.85	2.75	2.65	2.81	2.67	2.65	2.61	2.54	2.56	2.83	2.71	2.78
Student Exit Survey	2.78	2.67	2.67	2.67	2.67	2.67	2.67	2.75	2.72	2.72	2.83	2.75	2.58	2.58	2.58
Indirect Attainment	2.75	2.73	2.70	2.72	2.73	2.70	2.74	2.73	2.71	2.65	2.70	2.60	2.67	2.68	2.68

$$\text{POs Attainment} = (0.8 * \text{Direct attainment}) + (0.2 * \text{Indirect attainment})$$

PSOs Attainment = (0.8*Direct attainment) + (0.2*Indirect attainment)

COURSE	PROGRAM OUTCOMES												PROGRAM SPECIFIC OUTCOMES		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ME204 (ME)	2.80	2.60	2.20	2.00	2.00		2.00					1.60	2.60	2.60	2.00
ME213 (MP)	2.60	2.40	2.50	2.00	2.50	2.00		2.00	2.00	2.00	1.00	2.00	3.00	2.20	2.20
ME302 (TE)	3.00	2.60	2.75	2.67	3.00	3.00	3.00			2.00	3.00	2.50	3.00	2.80	3.00
ME322 (DTS)	3.00	2.80	3.00	2.50	3.00	3.00	3.00		1.40	2.20	2.00	2.67	2.80	3.00	2.60
ME403 (FEA)	2.00	1.73	1.78	1.67	1.73							1.78	2.00	1.83	1.73
ME413 (SIE)	3.00	2.60	3.00	2.50		3.00	3.00	3.00	2.60	3.00	3.00	3.00	2.75	2.80	3.00
Direct Attainment	2.73	2.46	2.54	2.22	2.45	2.75	2.75	2.50	2.00	2.30	2.25	2.26	2.69	2.54	2.42
Indirect Attainment	2.75	2.73	2.70	2.72	2.73	2.70	2.74	2.73	2.71	2.65	2.70	2.60	2.67	2.68	2.68
PO & PSO Attainment	2.74	2.51	2.57	2.32	2.50	2.74	2.75	2.55	2.14	2.37	2.34	2.32	2.69	2.57	2.47

Based on the observed continuous improvement of student's performance over the previous years,

the target value for POs and PSOs attainment is set as 2.5

If the overall attainment is greater than 2.5 then attainment status is YES else NO.

3.3.2 Provide results of evaluation of each PO & PSO (65)

Institute Marks : 65.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
ME101	3	3	0	3	0	3	0	3	3	3	0	3
ME102	2	2	2	2	2	0	0	0	0	0	0	2
ME103	3	3	3	3	0	0	0	3	3	3	3	3
ME104	3	3	3	3	0	3	3	3	3	3	0	3
ME105	2	2	2	2	2	2	2	2	2	2	2	3
ME106	3	3	3	3	3	3	3	3	3	3	3	3
ME107	3	3	3	3	3	3	0	3	3	3	0	0
ME108	3	3	3	3	3	3	3	3	3	3	3	3
ME109	3	3	0	3	0	3	0	3	3	3	0	3
ME110	3	3	3	3	3	3	0	0	0	0	3	3
ME111	3	3	3	3	3	0	0	0	0	0	0	3
ME112	3	3	3	3	3	3	3	0	3	3	0	3
ME113	2	2	2	2	2	2	2	2	2	2	2	2
ME114	3	3	0	3	3	0	3	0	3	3	3	3
ME115	3	3	3	3	3	3	3	3	3	3	3	3
ME116	3	3	3	3	3	3	3	3	3	3	3	3
ME201	3	2.6	2.5	2.5	2.5	0	3	0	0	0	0	2.5
ME202	3	2.8	2.67	2.8	2.5	3	2.5	0	0	0	0	2.4
ME203	3	2.6	2.67	2.5	2.75	0	2.33	0	0	0	0	2.4
ME204	3	2.2	2.5	2.5	2.5	0	2.67	3	0	0	0	2.4
ME205	3	2.6	2.67	0	2.8	0	0	0	3	3	0	2.4
ME206	2.8	2.6	2.5	2.67	2.60	0	0	0	3	0	0	2.5
ME207	3	2.8	2.75	2.4	2.6	0	0	0	3	0	0	2.2
ME208	3	2.8	2.6	2.6	3	0	0	0	2.5	2.5	3	3
ME210	2.8	2.6	2.8	2.6	2.6	3	2.5	3	2.67	2.5	2.5	2.8
ME211	3	2.8	3	2.6	2.6	0	0	0	0	2	0	3

ME212	2	2	1.73	1.87	1.87	0	0	0	0	1.67	0	2
ME213	3	3	3	2.8	3	0	0	0	0	2	3	3
ME214	2	2	1.73	1.73	2	0	0	0	0	1.47	0	2
ME215	3	2.6	2.6	2.67	2.67	0	0	0	0	3	0	2.6
ME216	3	2.6	2.8	2.75	3	0	0	0	0	2	0	2.4
ME219	3	2.8	3	3	2.75	0	0	0	0	2.67	0	2.6
ME301	3	2.8	2.75	2.75	2.8	0	0	0	0	2.5	3	2.37
ME302	3	2.6	2.75	2.67	3	3	3	0	0	2	3	2.5
ME303	2	2.75	2.5	3	0	2.5	3	0	0	3	2.75	2.4
ME304	1.87	1.87	2	2	1.78	0	0	0	0	1.67	0	1.78
ME307	3	2.6	2.75	2.75	2.6	0	0	0	0	0	0	2.75
ME310	2.8	2.6	3	3	3	2.67	2.67	3	2.50	2.50	2.6	3
ME311	2.80	2.80	2.67	2.60	2.5	0	2.5	0	3	2.75	2.5	0
ME312	2.6	2.6	2.6	2.75	2.6	3	0	0	3	2.5	3	2.8
ME317	3	2.6	2.75	2.75	2.6	0	0	0	0	2.5	0	2.67
ME320	3	3	3	3	3	0	0	0	0	0	0	0
ME321	2	2	2	1.73	2	1.67	0	0	1.67	0	0	1.73
ME322	3	2.8	3	2.5	3	3	3	0	1.4	2.2	2	2.67
ME326	3	3	2.75	3	2.60	2.67	0	0	2.67	2.5	0	0
ME328	3	3	2.60	2.75	3	2.67	0	0	2.8	3	0	0
ME329	3	3	3	3	3	2.5	0	0	3	2.67	0	0
ME330	2.6	2.6	2.6	2.67	2.6	2.5	0	3	2.75	2.5	2.67	2.8
ME336	3	2.60	3	2.75	2.75	2.5	2.5	0	3	0	3	2.5
ME401	3	2.8	3	2.75	3	0	0	0	0	0	0	2.6
ME402	3	2.6	2.67	2.6	2.60	3	3	0	0	0	0	2.67
ME403	2	1.73	1.78	1.67	1.73	0	0	0	0	0	0	1.78
ME404	2.8	2.8	3	2.6	2.6	0	2.33	0	0	0	0	2.5
ME408	2.6	2.8	2.8	2.6	2.6	2.67	3	0	2.5	0	2.7	2.75

ME410	2.8	2.6	2.6	3	2.6	0	0	0	0	0	3	2.6
ME411	2.6	2.6	3	3	3	0	0	0	0	0	3	2.75
ME412	2.5	2.75	2.6	2.67	0	3	3	0	3	3	2.5	2.6
ME413	3	2.6	3	2.5	0	3	3	3	2.6	3	3	3
ME414	2.67	3	2.6	2.75	0	2.5	2.5	3	2.8	3	3	3

PO Attainment Indirect

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Employer S	2.86	2.75	2.67	2.61	2.78	2.65	2.67	2.67	2.67	2.67	2.72	2.83
Alumni Sur	2.73	2.75	2.6	2.75	2.72	2.82	2.81	2.81	2.79	2.61	2.72	2.24
Parents Sur	2.63	2.73	2.83	2.85	2.75	2.65	2.81	2.67	2.65	2.61	2.54	2.56
Student Exi	2.78	2.67	2.67	2.67	2.67	2.67	2.67	2.75	2.72	2.72	2.83	2.75

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
InDirect Attainment	2.75	2.72	2.69	2.72	2.73	2.70	2.74	2.72	2.71	2.65	2.70	2.60
Direct Attainment	2.78	2.68	2.68	2.67	2.66	2.76	2.75	2.88	2.75	2.59	2.79	2.63

PSO Attainment

Course	PSO1	PSO2	PSO3
ME101	3	3	3
ME102	2	2	2
ME103	3	3	3
ME104	3	3	3
ME105	2	2	2
ME106	3	3	3
ME107	3	3	3
ME108	3	3	3
ME109	3	3	3
ME110	3	3	3
ME111	3	3	3

ME112	3	3	3
ME113	2	2	2
ME114	3	3	3
ME115	3	3	3
ME116	3	3	3
ME201	2.8	2.6	2.75
ME202	3	2.6	2.4
ME203	3	2.67	2.6
ME204	3	2.5	2.8
ME205	2.8	2.67	2.6
ME206	2.8	2.75	2.6
ME207	2.8	2.75	2.8
ME208	2.6	2.67	3
ME210	2.8	2.5	3
ME211	3	0	2.8
ME212	2	1.78	1.73
ME213	3	0	3
ME214	2	1.73	1.87
ME215	3	2.75	3
ME216	3	2.6	3
ME219	3	2.8	3
ME301	3	3	3
ME302	3	2.8	3
ME303	2.8	2.6	2.4
ME304	1.87	1.67	2
ME307	3	2.67	3
ME310	3	2.5	3
ME311	3	2.75	3
ME312	2.8	3	2.33

ME317	3	2.25	3
ME320	2.8	2.75	3
ME321	1.83	1.83	1.67
ME322	2.8	3	2.6
ME326	3	2.67	2.2
ME328	3	3	2.6
ME329	3	2.75	2.8
ME330	2.8	2.5	3
ME336	3	2.75	2.75
ME401	3	2.75	2.80
ME402	2.6	2.75	2.6
ME403	2	1.83	1.73
ME404	3	2.75	2.6
ME408	2.8	2.75	2.8
ME410	2.6	2.8	2.6
ME411	2.8	2.8	2.60
ME412	3	2.75	2.6
ME413	2.75	2.8	3
ME414	2.75	3	3

PSO Attainment Indirect

Survey	PSO1	PSO2	PSO3
Employer Survey (Indu	2.75	2.74	2.67
Alumni Survey	2.52	2.69	2.67
Parents Survey	2.83	2.71	2.78
Student Exit Survey	2.58	2.58	2.58

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	2.79	2.66	2.71
InDirect Attainment	2.67	2.68	2.68

4 STUDENTS' PERFORMANCE (100)

Total Marks 86.40

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
Sanctioned intake of the program(N)	30	30	30	60	60	180	180
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	30	30	30	60	60	180	180
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	3	3	6	6	18	18
Separate division students, If applicable (N3)	0	0	0	0	0	0	0

Total number of students admitted in the programme(N1 + N2 + N3)	30	33	33	66	66	198	198
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Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)			
		I year	II year	III year	IV year
2024-25 (CAY)	30				
2023-24 (CAYm1)	33	23			
2022-23 (CAYm2)	33	22	25		
2021-22 (CAYm3)	66	46	52	49	
2020-21 (LYG)	66	43	49	48	46
2019-20 (LYGm1)	198	125	142	138	134
2018-19 (LYGm2)	198	122	138	133	132

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2024-25 (CAY)	30				
2023-24 (CAYm1)	33	29			
2022-23 (CAYm2)	33	30	32		
2021-22 (CAYm3)	66	59	65	61	
2020-21 (LYG)	66	58	64	62	56
2019-20 (LYGm1)	198	175	191	174	161
2018-19 (LYGm2)	198	174	188	186	167

4.1 Enrolment Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25 (CAY)	30	30	100.00
2023-24 (CAYm1)	30	30	100.00
2022-23 (CAYm2)	30	30	100.00

Average [(ER1 + ER2 + ER3) / 3] : 100.00

Assessment : 20.00

4.2 Success Rate in the stipulated period of the program (20)

Total Marks 14.37

4.2.1 Success rate without backlogs in any semester / year of study (15)

Institute Marks : 10.20

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	66.00	198.00	198.00
Y Number of students who have graduated without backlogs in the stipulated period	46.00	134.00	132.00
Success Index [SI = Y / X]	0.70	0.68	0.67

Average SI [(SI1 + SI2 + SI3) / 3] : 0.68

Assessment [15 * Average SI] : 10.20

4.2.2 Sucess rate in stipulated period (5)

Institute Marks : 4.17

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	66.00	198.00	198.00
Y Number of students who have graduated in the stipulated period	56.00	161.00	167.00

Average SI[(SI1 + SI2 + SI3) / 3]: 0.83

Assessment [5 * Average SI] : 4.17

Note : If 100% students clear without any backlog then also total marks scored will be 20 as both 4.2.1 & 4.2.2 will be applicable simultaneously.**4.3 Academic Performance in Second Year (10)**

Total Marks 7.23

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	7.60	7.56	7.46
Total number of successful students (Y)	29.00	65.00	64.00
Total number of students appeared in the examination (Z)	33.00	65.00	64.00
API [$X * (Y/Z)$]	6.68	7.56	7.46

Average API [(AP1 + AP2 + AP3)/3] : 7.23

Assessment [AverageAPI] : 7.23

4.4 Placement, Higher Studies and Entrepreneurship (30)

Total Marks 24.80

Item	CAYm1(2023-24)	CAYm2(2022-23)	CAYm3(2021-22)
Total No of Final Year Students(N)	62.00	174.00	186.00
No of students placed in the companies or government sector(X)	46.00	121.00	125.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	6.00	17.00	27.00
No of students turned entrepreneur in engineering/technology (Z)	1.00	2.00	2.00
Placement Index [(X+Y+Z)/N] :	0.85	0.80	0.83

Average Placement [(P1 + P2 + P3)/3] : 0.83

Assessment [30 * Average Placement] : 24.80

Program Name : Mechanical Engineering

Assessment Year : 2023-24 (CAYm1)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	BHUKYA GANESH NAYAK	20N31A0351	ITC LIMITED	ITC LIMITED/EMAIL/28/08/2024
2	MOHAMMAD IBRAHIM	20N31A0359	ITC LIMITED	ITC LIMITED/EMAIL/28/08/2024
3	BHUKYA NAVEEN	20N31A0306	VALEO PRODUCTS LLP- GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2024
4	GHANAMUKHI HEMANTH	20N31A0318	VALEO PRODUCTS LLP- GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2025
5	K SUJETH	20N31A0321	VALEO PRODUCTS LLP- GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2026
6	BARIGE RAVI KUMAR	20N31A0350	VALEO PRODUCTS LLP- GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2027
7	THOTLA ARUNA	21N35A0306	VALEO PRODUCTS LLP- GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2028
8	SAHANI DEEPAK	20N31A0342	VALEO PRODUCTS LLP- GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2028
9	CHOUDARI RAKESH	20N31A0353	VALEO PRODUCTS LLP- GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2027
10	DEVI REDDY SUJITH REDDY	20N31A0310	VALEO PRODUCTS LLP- GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2027
11	ALLAM NITHIN REDDY	20N31A0301	TVS Sundram Fasteners Ltd	CN032406315
12	DHARAVATH ABHIDAS	20N31A0311	TVS Sundram Fasteners Ltd	CN032406247
13	MARUTHI VAMSHI KRISHNA	20N31A0333	TVS Sundram Fasteners Ltd	CN032406987
14	NARADALA RAKESH	20N31A0335	TVS Sundram Fasteners Ltd	CN032406149
15	NEELAM KARTHIK	20N31A0336	TVS Sundram Fasteners Ltd	CN032406978
16	POOJAM DEEPAK	20N31A0339	TVS Sundram Fasteners Ltd	CN032406143
17	PRAJAPATI ALOK KUMAR	20N31A0340	TVS Sundram Fasteners Ltd	CN032406150
18	SANGATI SAI KUMAR REDDY	20N31A0343	TVS Sundram Fasteners Ltd	CN032406348
19	KALLURI TARUN TEJA	20N31A0356	TVS Sundram Fasteners Ltd	CN032406188
20	MANGALI SANDEEP KUMAR	20N31A0358	TVS Sundram Fasteners Ltd	CN032406687
21	PEDDAGOLLA SRISHYLAM	21N35A0301	TVS Sundram Fasteners Ltd	CN032412013
22	SAI AKHIL MAROJU	21N35A0303	TVS Sundram Fasteners Ltd	CN032406265
23	THALLAPALLI NAVEEN	21N35A0304	TVS Sundram Fasteners Ltd	CN032406136
24	THATIKANTI ADITHYA	21N35A0305	TVS Sundram Fasteners Ltd	CN032406148
25	PATHLAVATH VITTAL	20N31A0338	Foxconn	FOXCONN /EMAIL/20/02/2024
26	RASOORI SRAVANI	21N35A0302	Foxconn	FOXCONN /EMAIL/20/02/2025
27	ATHRAM RAMAKRISHNA	20N31A0303	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2024
28	ATTHI SAIKIRAN	20N31A0304	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2025

29	BOLLAPELLI VIVEK	20N31A0308	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2026
30	BONEPALLY SAHITH REDDY	20N31A0309	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2027
31	JERIPETTI VAMSHI	20N31A0320	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2028
32	KETHAVATH SRINIVAS	20N31A0323	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2029
33	MARRI MANOJ KUMAR REDDY	20N31A0331	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2030
34	MARUKONDA SHIVASAI	20N31A0332	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2031
35	SEELAM NARENDAR	20N31A0344	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2031
36	THOKALA NARESH	20N31A0346	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2033
37	BOGA SANTHOSH	20N31A0352	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2034
38	DAIDA JEEVAN	20N31A0354	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2035
39	MAMMAI ANIRUDH	20N31A0357	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2036
40	MOHAMMED IMRAN	20N31A0360	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2037
41	LAYAKAR RUGVEDH BOLLA	20N31A0327	CADFEM	CADFEM/EMAIL/22/05/2024
42	GUDIVENUKA MANIDEEP	20N31A0319	Anagha Spaces Private Limited	Anagha Spaces Private Limited/EMAIL/07/05/2024
43	ANUGUBARI VENKATESHWAR REDDY	20N31A0302	WRIGHT STATE UNIVERSITY	SEVIS ID: N0035456469
44	LAVUDYA SRINIVAS	20N31A0326	University of Cincinnati	SEVIS ID: N0035344389
45	BOBBILLAPATI SURENDAR	20N31A0307	AERIES	AERIES/EMAIL/09/01/2025
46	G PRATHIK	20N31A0312	IT SYNTAX	IT SYNTAX/EMAIL/15/07/2024
47	GOUNDLA VINOD KUMAR	20N31A0355	University of North Carolina at Charlotte	SEVIS ID: N0035445897
48	KANAKURTI SANJAY	20N31A0322	University of North Carolina at Charlotte	SEVIS ID: N0035392837
49	RAMINENI BHOGENDHRANATH	20N31A0341	Central Michigan University	SEVIS ID: N0035431824
50	KOTARI SREE NIKHIL	20N31A0345	TATA ADVANCE SYSTEMS	TBAL/I L /289
51	BAKKANOLLA GOVARDHAN	20N31A0349	NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA	224ME7018
52	G VINOD YADAV	20N31A0313	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2036
53	BHEEMANPALLY RAHUL	20N31A0305	VALEO PRODUCTS LLP- GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2028

Assessment Year : 2022-23 (CAYm2)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ANKOLLA RAHUL	19N31A0308	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
2	AQIB AHMED KHAN	19N31A0311	SUTHERLAND	UTHERLAND/EMAIL/20/12/2023
3	BALAM PAVAN SRI SAI	19N31A0315	SUTHERLAND	UTHERLAND/EMAIL/20/12/2023
4	DAMMANNAGARI SAIKAMAL GOUD	19N31A0338	Central Michigan University	Central Michigan University/EMAIL/03/05/2024
5	DARSI VINAY	19N31A0339	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
6	GUGULOTH RAJESH	19N31A0353	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
7	BHIKYA RAJESH	19N31A0373	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
8	KUMPATI BHAGATH SINGH	19N31A0374	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
9	LAUDYA NITHISH NETHRA	19N31A0377	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
10	LUNSAVATH RAMDAS	19N31A0378	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
11	M SHIVA SHANKER GOUD	19N31A0379	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
12	MAGUNURI HENRY BHARGAV	19N31A0380	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
13	MOHAMMAD IRFAN	19N31A0388	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
14	MOHAMMED KAMRAN AHMED	19N31A0389	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
15	MUSHNABOINA AKHILESH GOUD	19N31A0392	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
16	MOTHE SANDEEP	19N31A0393	Central Michigan University	SEVIS ID: N0035771303
17	NAGAMALLA AJAY KUMAR	19N31A0395	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
18	NALLANTHIGHAL SRI SAI AVINASH IYENGAR	19N31A0398	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
19	PEDHDODI NEHANTH REDDY	19N31A03A5	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
20	PADALA DILIP	19N31A03A6	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
21	PASIKE HARSHA VARDHAN REDDY	19N31A03B0	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
22	PENDAM VARUN	19N31A03B4	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
23	PITHANI GYANESH BABU	19N31A03B6	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
24	POTTURU SAI VENKATA HARSHITH	19N31A03B7	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
25	R YOUVARAJ	19N31A03C0	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
26	RAMOJI SAIKIRAN	19N31A03C3	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
27	ALLAM MAHITHA REDDY	19N31A0303	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
28	AMALSHA.V.S	19N31A0305	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
29	ANUPOJI MANIKANTA SAI	19N31A0310	ACCENTURE	ACCENTURE/EMAIL/23/01/2023

30	BANDARU SRINIVAS	19N31A0317	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
31	BANDI SRI MANI KANTA REDDY	19N31A0319	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
32	BHUKYA PRASHANTH	19N31A0323	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
33	BODA GURUCHARAN	19N31A0328	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
34	CHINTALA SAI TEJA	19N31A0334	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
35	CHIPPADA LEEA MANJARI	19N31A0335	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
36	D ARUN	19N31A0336	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
37	DHARAVATH TARUN	19N31A0340	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
38	DURGAM KIRAN	19N31A0344	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
39	GOWTHAM REDDY VANTA	19N31A0351	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
40	JAMI AVINASH	19N31A0359	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
41	K SAI KRISHNA RAM	19N31A0363	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
42	KASAVARAM NAVEEN RAO	19N31A0364	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
43	KESIREDDY SANDEEP REDDY	19N31A0367	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
44	KONDA PAVAN KUMAR	19N31A0370	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
45	KONERU JHARAN CHOUDARY	19N31A0371	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
46	MANDA AMRUTH REDDY	19N31A0381	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
47	MARRAPU AAKASH	19N31A0385	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
48	MALOTHU GIREESHWAR NAYAK	19N31A0391	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
49	NAGULA YASHWANTH SAI	19N31A0397	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
50	PULLANNAGARI NAVEEN REDDY	19N31A03A4	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
51	PATLOLLA VIGNAN SAGAR REDDY	19N31A03B1	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
52	PESARA VIJAY REDDY	19N31A03B5	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
53	SIDDANA RAKESH	19N31A03D1	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
54	SUNKARI SANJAY	19N31A03D3	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
55	T SURESH	19N31A03D5	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
56	THATIKRINDI BINESH	19N31A03D8	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
57	VELAPULA SUNIL	19N31A03E1	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
58	KODIGANTI SAI KONDAMA RAJU	20N35A0309	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
59	MOHAMMED SAMEER ALI	20N35A0316	ACCENTURE	ACCENTURE/EMAIL/23/01/2023

60	MANIVARDHAN GOUD PATEL	20N35A0319	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
61	ORISI YUVARAJ	19N31A03A3	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
62	ARUGAPALLY SAIANAND	19N31A0313	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
63	B HARI KRISHNA	19N31A0314	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
64	BHUKYA NAGENDHAR	19N31A0322	COGNIZANT	3627842
65	BILLAIPUR MALLESH YADAV	19N31A0326	COGNIZANT	3624865
66	BOLISHETTI VAMSHI KRISHNA	19N31A0330	COGNIZANT	3623654
67	BUDARAPU MANOHAR	19N31A0332	COGNIZANT	3625242
68	DADE KISHORE	19N31A0337	COGNIZANT	3623530
69	DHUMAL PRASAD	19N31A0341	COGNIZANT	3623532
70	DONTHIREDDY DINAKAR REDDY	19N31A0342	COGNIZANT	3623945
71	DULAM VISHNU VARDHAN GOUD	19N31A0343	COGNIZANT	3622643
72	DUVVA DEVANG	19N31A0345	COGNIZANT	3623714
73	GUGULOTH MAHENDAR	19N31A0352	COGNIZANT	3629969
74	IMMIDISSETTI SUNEEL	19N31A0358	COGNIZANT	3625487
75	JOHN YOSHIT KONDURU	19N31A0372	COGNIZANT	3623895
76	KUTURU NIKHIL KUMAR	19N31A0375	COGNIZANT	3631055
77	LAGISHETTY MAHENDER	19N31A0376	COGNIZANT	3623821
78	M YOGI RAJA GOVIND	19N31A0384	COGNIZANT	3625782
79	MYLAVARAPU GANESH KUMAR	19N31A0394	COGNIZANT	3629862
80	NEELA PRASHANTH	19N31A0399	COGNIZANT	3622633
81	NENAVATH VINAY NAYAK	19N31A03A2	COGNIZANT	3625398
82	PAIDIMALLA SAI	19N31A03A8	COGNIZANT	3625478
83	PARSHA VIJAY KUMAR	19N31A03A9	COGNIZANT	3623395
84	PEDDA GOLLA HANMANTHU	19N31A03B2	COGNIZANT	3625694
85	PRATHAPANI SAI DINESH	19N31A03B8	COGNIZANT	3623469
86	PINTU SHARMA	19N31A03C2	COGNIZANT	3623648
87	ROHAN S MUDAY	19N31A03C4	COGNIZANT	3649189
88	S SHANMUKHA RAJ	19N31A03C7	COGNIZANT	3623840
89	SYED AFZAL	19N31A03D4	COGNIZANT	3623245

90	VULLIGADDA RAKESH	19N31A03E5	COGNIZANT	3629972
91	YEJJU MANIKUMAR	19N31A03E6	COGNIZANT	3625874
92	EASHWAR GOPAGANI	20N35A0306	COGNIZANT	3623142
93	MALLAM SANTOSH	20N35A0312	COGNIZANT	3623672
94	MALLISHETTI PAVAN KUMAR	20N35A0313	COGNIZANT	3626839
95	VELPULA SRI BHAVYA	20N35A0320	COGNIZANT	3623524
96	AKULA SHASHANK	19N31A0302	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
97	ANGOTHU CHANDRA HASAN	19N31A0306	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
98	BANDARU VAMSHI KRISHNA	19N31A0318	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
99	BIRADAR MACHENDER	19N31A0327	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
100	BODDU ADARSH KUMAR	19N31A0329	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
101	BUNGA PAVAN KUMAR	19N31A0333	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
102	DUVVURI PAVAN ADITYA	19N31A0346	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
103	GALLA PAVAN KUMAR	19N31A0348	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
104	GATTU MANOJ KUMAR	19N31A0349	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
105	GOPU PRUTHVI TEJA	19N31A0350	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
106	GUGULOTH SANDEEP	19N31A0354	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
107	GURAJALA RAVI	19N31A0355	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
108	JATAVATH RAJKUMAR	19N31A0360	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
109	KATIKAREDDY DINESH KUMAR REDDY	19N31A0366	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
110	BHUKYA KIRITI NAIK	19N31A0321	TCS NINZA	TCSL/DT20223080285/Hyderabad
111	EDUBILLI MOHAN SAI	19N31A0347	TCS NINZA	TCSL/DT20218983107/Hyderabad
112	KASTHURI SAI KIRAN REDDY	19N31A0365	TCS NINZA	TCSL/DT20223109945/Hyderabad
113	MOHAMMED KHADEER	19N31A0390	TCS NINZA	TCSL/DT20223159852/Hyderabad
114	PEMMARAJU NARAYANA NANDA KISHORE	19N31A03B3	TCS NINZA	TCSL/DT20223073769/Hyderabad
115	SADHU SAI TARUN	19N31A03C9	TCS NINZA	TCSL/DT20229870803/Hyderabad
116	THOTA SATHISH	19N31A03D9	TCS NINZA	TCSL/DT20223065450/Hyderabad
117	ABDULLAH AHMED	19N31A0301	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
118	RUKAVATH RAJKUMAR	19N31A03C5	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
119	SHARMA SHASHI KIRAN	19N31A03C8	ACCENTURE	ACCENTURE/EMAIL/23/01/2023

120	SUNKARI AKSHAY	19N31A03D2	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
121	TANNIRU VAMSHI RAJ	19N31A03D6	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
122	THANIKONDA NIKHIL CHOWDARY	19N31A03D7	Central Michigan University	SEVIS ID: N0035771303
123	VANKARE BHANUPRABHAS	19N31A03E0	Central Michigan University	SEVIS ID: N0035753476
124	VODAPATHI RAMANA	19N31A03E4	Central Michigan University	SEVIS ID: N0035761689
125	AAVITI SHIVA SHANKAR	20N35A0301	Rowan University	Rowan Banner ID: 916472365
126	ARKUTI SRAVAN KUMAR	20N35A0302	Rowan University	Rowan Banner ID: 916472366
127	CHAMANTHULA NITHISHA	20N35A0304	Rowan University	Rowan Banner ID: 916472367
128	CHERIPALLY MANOJ KUMAR	20N35A0305	Rowan University	Rowan Banner ID: 916472368
129	GURRAPU KARTHIK	20N35A0308	Central Michigan University	SEVIS ID: N0035776547
130	KUMMARI RAKESH	20N35A0310	Arizona State University	ID number: 1230884574
131	MALE ANUSHA	20N35A0311	Arizona State University	ID number: 1230846598
132	MALYALA VIJAY KUMAR	20N35A0314	Arizona State University	ID number: 1230885478
133	MARTHAND RAMESH	20N35A0315	Arizona State University	ID number: 1230890749
134	MYLA GUINNESS KUMAR	20N35A0318	Entrepreneur	Entrepreneur
135	AREM KRUTHIK	19N31A0312	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
136	GODUGU RACHANA	20N35A0307	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
137	BATTU PAVAN TEJA	19N31A0361	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
138	ALWAL BHARATH KUMAR	19N31A0304	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
139	BILLA SAI DEEKSHA REDDY	19N31A0325	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
140	K KARTHIK	19N31A0362	ACCENTURE	ACCENTURE/EMAIL/23/01/2023

Assessment Year : 2021-22 (CAYm3)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ANNAM VINAY	18N31A0306	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
2	B J ISAC ABRAHAM PAUL	18N31A0310	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
3	BANOTHU GOPIKRISHNA	18N31A0319	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
4	BHEEMANADULA SAI TEJA	18N31A0323	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
5	BODAPATI VENKATA RAJESWARA SURYATEJA	18N31A0328	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
6	BONDLA ASHOK	18N31A0329	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
7	BETHI ANKSHA	18N31A0322	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
8	ESLAVATH MUNESH	18N31A0352	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
9	KONDA SAKETH	18N31A0387	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
10	MADIKONDA SAI DEEPAK	18N31A0398	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
11	RENUKUNTALA SHIVA RAJ	18N31A03D8	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
12	ATTHE ASHOK	18N31A0307	COGNIZANT	COGNIZANT/EMAIL/19/01/2022
13	AVIDI GIRISH VARMA	18N31A0308	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
14	BADAI MOHAMMAD ADIL	18N31A0313	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
15	BANOTH GANESH	18N31A0318	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
16	CHAGANTI HASWANATH	18N31A0333	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
17	CHANDAPURAM SAI BRUNDA	18N31A0334	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
18	CHINTHOJU HARSHA VARDHAN	18N31A0338	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
19	D HRISHYENDHRA GOUD	18N31A0340	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
20	DHARAVATH JAGADEESH	18N31A0346	COGNIZANT	COGNIZANT/EMAIL/17/01/2022
21	GARAGA VAMSHI KRISHNA	18N31A0359	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
22	ESLAVATH SRIDHAR NAYAK	18N31A0353	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
23	ELPULA ROHIT KUMAR	18N31A0350	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
24	GAJJALA SHIVA SAI	18N31A0357	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
25	GOPALAM BADRI NATH	18N31A0360	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
26	JANAPAREDDY ARAVIND	18N31A0372	COGNIZANT	COGNIZANT/EMAIL/29/01/2022
27	KAMMARI SAMANTH CHARY	18N31A0379	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
28	KANCHAM MADHAVI	18N31A0380	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
29	MOKU VINAYKUMAR REDDY	18N31A03A9	COGNIZANT	COGNIZANT/EMAIL/19/01/2022

30	MUTHA RANJITH KUMAR	18N31A03B2	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
31	NELLI VEERENDAR	18N31A03C0	COGNIZANT	Superset ID: 1580322
32	SANAPALA SAI VENKAT	18N31A03E1	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
33	SANJEEV KUMAR	18N31A03E3	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
34	SENAPATI SRITEJA	18N31A03E5	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
35	SAI JEETHENDRA V	18N31A03G5	COGNIZANT	COGNIZANT/EMAIL/19/01/2022
36	BAIRY BHARATHWAJ	19N35A0303	COGNIZANT	Superset ID: 1553336
37	KOLAKANI SIRICHANDANA	19N35A0308	COGNIZANT	Superset ID: 1570372
38	RAVULA GANESH	19N35A0314	COGNIZANT	COGNIZANT/EMAIL/29/01/2022
39	ABHISHEK KALE	18N31A0301	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
40	AJMEERA SAI TEJA	18N31A0302	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
41	DAMERA RAJ KUMAR	18N31A0342	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
42	LAGADAPATI DOWTHYAKSAI	18N31A0395	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
43	MENDE RISHI	18N31A03A6	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
44	MOHAMMED AYAANUDDIN	18N31A03A7	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
45	RAMAVATH SAIKUMAR	18N31A03D4	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
46	RAVURI PAVAN KUMAR	18N31A03D5	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
47	SHAIK WASEEM AKRAM	18N31A03E6	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
48	SHETTI SAGAR	18N31A03E7	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
49	SUNKARI MANOJ KUMAR MUDHIRAJ	18N31A03F3	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
50	THOTAKURI VAMSHI	18N31A03G1	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
51	VANAPARTHY RAGHUCHARAN	18N31A03H0	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
52	AKULA SATHISH	19N35A0301	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
53	SOMIREDDY SATHWIK REDDY	18N31A03E9	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
54	BAGAM SANDEEP	18N31A0315	HCL	HCL/EMAIL/10/02/2022
55	DAMERA VENKAT	18N31A0343	HCL	HCL/EMAIL/10/02/2022
56	KOTAMARTHI VISHNUVARDHAN	18N31A0391	HCL	HCL/EMAIL/10/02/2022
57	MUKKAGALLA SURYATEJA	18N31A03B1	HCL	HCL/EMAIL/10/02/2022
58	SANDEEP NAIDU THANDRANGI	18N31A03E2	HCL	HCL/EMAIL/10/02/2022
59	TAMMALI SAI KIRAN	18N31A03F7	HCL	HCL/EMAIL/10/02/2022

60	VELDOJ SAI PRAKASH	18N31A03H3	HCL	HCL/EMAIL/10/02/2022
61	BADALA SUKANYA	19N35A0302	HCL	HCL/EMAIL/10/02/2022
62	JEGGARI VENKAT RAM REDDY	19N35A0305	HCL	HCL/EMAIL/10/02/2022
63	TIPPANA RAJESH	18N31A03G2	HCL	HCL/EMAIL/10/02/2022
64	M BANAKA	19N35A0309	HCL	HCL/EMAIL/10/02/2022
65	MALOTH RAVINDAR	19N35A0310	HCL	HCL/EMAIL/10/02/2022
66	PITTA SAIDEEP	19N35A0313	HCL	HCL/EMAIL/10/02/2022
67	SABHAVATH NAVEEN	19N35A0315	HCL	HCL/EMAIL/10/02/2022
68	B SAI MOHAN	18N31A0311	The Newschool	The Newschool/EMAIL/10/11/2022
69	BOURISHETTY SAI SANTOSH	18N31A0330	The Newschool	The Newschool/EMAIL/10/11/2022
70	GUTTALA SUBASH	18N31A0368	The Newschool	The Newschool/EMAIL/10/11/2022
71	HRUSHIKESH REDDY VAJRALA	18N31A0370	The Newschool	The Newschool/EMAIL/10/11/2022
72	KATROTH JAI SINGH	18N31A0385	The Newschool	The Newschool/EMAIL/10/11/2022
73	SUTHAR DEEPAK KUMAR	18N31A03F4	The Newschool	The Newschool/EMAIL/10/11/2022
74	AYMAN MOHAMMAD IBRAHIM	18N31A0309	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
75	M ADITHYA SRINIVAS	18N31A0396	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
76	MANCHAL PRASHANTH REDDY	18N31A03A1	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
77	NEELAM SAI PRANEETH	18N31A03B9	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
78	NARADASU GOKUL	18N31A03B7	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
79	PASULA VAMSHI KRISHNA	18N31A03C5	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
80	ROHIT KUMAR	18N31A03D9	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
81	YAGGADI VENKAT SAI	18N31A03H6	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
82	YATHAM RAHUL REDDY	18N31A03H8	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
83	CHEPURI SHIVANI	19N35A0304	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
84	POTHULURI VEERABRAMA SAI VIDHYA	19N35A0312	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
85	VESHALA RAKESH	19N35A0318	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
86	DHARAVATH DHANUSH NAIK	18N31A0345	University of north Texas	Student ID: 12147298
87	GADDAM DEEPIKA	18N31A0356	University of north Texas	Student ID: 12147257
88	GANJI SAI SUMANTH	18N31A0358	University of north Texas	Student ID: 12148547
89	MOHAMMED OWAIS	18N31A03A8	Glyndwr University	Glyndwr University/EMAIL/19/08/2022

90	T NITISH KALYAN	18N31A03F6	Glyndwr University	Glyndwr University/EMAIL/19/08/2022
91	VADTHYA SRIKANTH	18N31A03G8	Glyndwr University	Glyndwr University/EMAIL/19/08/2022
92	T AKASHT AKASH	19N35A0317	Glyndwr University	Glyndwr University/EMAIL/19/08/2022
93	VEERLA SHASHI VARDHAN	18N31A03H2	California state University	ID: 301063254
94	Y HARSHA VARDHAN REDDY	18N31A03H5	California state University	ID: 301043245
95	CHINTAKINDI VAMSHIVARDHAN REDDY	18N31A0337	California state University	ID: 305478254
96	G NAVEEN REDDY	18N31A0354	UMBC	SEVIS ID: N0032968954
97	JUNNUTHULA ASHRITH REDDY	18N31A0373	UMBC	SEVIS ID: N0032968810
98	Maddula Naveen reddy	18N31A0397	UMBC	SEVIS ID: N0032968805
99	MADIRAJU KAVITHA	18N31A0399	UMBC	SEVIS ID: N0032968254
100	NITHIN REDDY TUMMALA	18N31A03C1	UMBC	SEVIS ID: N0032968907
101	PASPULA VISHAL YADAV	18N31A03C4	UMBC	SEVIS ID: N0032965478
102	PINUMALLA SANKEERTH	18N31A03E4	Cleveland state university	Cleveland state university/EMAIL/23/04/2022
103	TAMMINANI PRAMOD SAI	18N31A03F8	Cleveland state university	Cleveland state university/EMAIL/25/04/2022
104	KADARI ADITYA UDAY KUMAR	19N35A0307	University of Greenwich	University of Greenwich/13/09/2022
105	BHUKYA SAMPATH	18N31A0325	University of Greenwich	University of Greenwich/13/09/2022
106	PABBOJI LIKITH KUMAR	18N31A03C3	University of Greenwich	University of Greenwich/13/09/2022
107	BADAL KUMAR NATHSHARMA	18N31A0314	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
108	BANOTHU SHANKAR	18N31A0320	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
109	DANDU SAI KUSHAL VARMA	18N31A0344	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
110	GUDLA RAKESH	18N31A0364	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
111	KANCHARLA HARI PAVAN	18N31A0381	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
112	KASALA SAMPATH GOUD	18N31A0383	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
113	NEELAM SAI KRISHNA	18N31A03B8	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
114	NAMBURI NIKHIL	18N31A03B6	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
115	PENUMALA SAI MAHESH	18N31A03C7	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
116	POTHARAJU NIRANJAN	18N31A03D1	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
117	SAJJANAPU BHARATH KUMAR	18N31A03E0	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
118	SOLANKI HIRALAL	18N31A03E8	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
119	SUGITHI CHENNULU	18N31A03F2	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022

120	T GANESH	18N31A03F5	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
121	V ANAND NAIK	18N31A03G4	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
122	VADLA AKASH	18N31A03G6	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
123	VADLAMUDI SRI RAM	18N31A03G7	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
124	FAHAD HUSSAIN	18N31A03J1	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
125	JUVVI SUNIL KUMAR	19N35A0306	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
126	KUNTAMALLA SHIVAKUMAR	18N31A0392	TCS	TCS/Email/12-11-2021
127	KUSUMA MANI KANTA REDDY	18N31A0393	TCS	TCS/Email/12-11-2021
128	PORANDLA UDAY	18N31A03D0	TCS	TCS/Email/12-11-2021
129	UPPARI THARUN KUMAR	18N31A03G3	TCS	TCS/Email/12-11-2021
130	SRIRAM MANOHAR	19N35A0316	TCS	TCS/Email/12-11-2021
131	GYANMOTE AKSHAY	18N31A0369	WIPRO	WIPRO/EMAIL/18/06/2022
132	B SHIVA KUMAR	18N31A0312	WIPRO	WIPRO/EMAIL/18/06/2022
133	BAINDLA PRASHANTH KUMAR	18N31A0316	WIPRO	WIPRO/EMAIL/18/06/2022
134	GOPALDAS HARSHA VARDHAN	18N31A0361	WIPRO	WIPRO/EMAIL/18/06/2022
135	GUJJULA SAI TEJA	18N31A0365	WIPRO	WIPRO/EMAIL/18/06/2022
136	JAKKAMSETTI NEHEMAIH	18N31A0371	WIPRO	WIPRO/EMAIL/18/06/2022
137	KALLURI CHANDRA MOULI	18N31A0378	WIPRO	WIPRO/EMAIL/18/06/2022
138	KONDAMEEDA VENKATESWARLU	18N31A0389	WIPRO	WIPRO/EMAIL/18/06/2022
139	MALCHI RICHARD	18N31A03A0	WIPRO	WIPRO/EMAIL/18/06/2022
140	MANCHANPALLY PAVANKUMARGOUD	18N31A03A2	WIPRO	WIPRO/EMAIL/18/06/2022
141	MEDIKONDA VISHNU VARDHAN	18N31A03A5	WIPRO	WIPRO/EMAIL/18/06/2022
142	MOOD NARAYANA CHAWHAN	18N31A03B0	WIPRO	WIPRO/EMAIL/18/06/2022
143	NALLAVENI SHIVATEJA	18N31A03B5	WIPRO	WIPRO/EMAIL/18/06/2022
144	P SURAJ	18N31A03C2	WIPRO	WIPRO/EMAIL/18/06/2022
145	PERECHARLA NAGA PAVAN VARMA	18N31A03C8	WIPRO	WIPRO/EMAIL/18/06/2022
146	PITTALA SAI VAMSHI	18N31A03C9	WIPRO	WIPRO/EMAIL/18/06/2022
147	THARRA RAMA KRISHNA	18N31A03F9	WIPRO	WIPRO/EMAIL/18/06/2022
148	YAMMALA SHIVA KUMAR	18N31A03H7	WIPRO	WIPRO/EMAIL/18/06/2022
149	VALLAPUDASU RAJKUMAR	18N31A03G9	WIPRO	WIPRO/EMAIL/18/06/2022

150	ALAGALA ANIL	18N31A0303	ENTREPRENEUR	ENTREPRENEUR
151	AMANDU PRANAV	18N31A0304	ENTREPRENEUR	ENTREPRENEUR
152	BODA VENKATESH	18N31A0327	WIPRO	WIPRO/EMAIL/18/06/2022
153	CHILAKAMARTHI RUTHWIK	18N31A0336	WIPRO	WIPRO/EMAIL/18/06/2022
154	GOUNDLA SAI BHARATH GOUD	18N31A0362	WIPRO	WIPRO/EMAIL/18/06/2022

4.5 Professional Activities (20)

Total Marks 20.00

4.5.1 Professional societies/chapters and organizing engineering events (5)

Institute Marks : 5.00

Professional societies/chapters and organizing engineering events

Year	Professional Society / Chapter
2022-2023	SAE, EWB, ISTE, IEI
2023-2024	SAE, EWB, ISTE, IEI
2024-2025	SAE, EWB, ISTE, IEI

Professional Associations

- **SAE:** Society of Automotive Engineering
- **EWB:** Engineers Without Borders
- **ISTE:** Indian Society for Technical Education
- **IEI:** Institution of Engineers India

WORKSHOPS CONDUCTED

S No	Workshop Conducted	Duration	Date
1	Awareness Program on Human Values	1 DAY	19 OCT,2022
2	Two Days Hands on Workshop on Advance Mechatronics	2 DAYS	20-21 DEC,2022
3	Entrepreneurship and Innovation as Career Opportunity	1 DAY	09 November 2023
4	Seminar Conducted on Pollution Control	1 DAY	05 December 2023
5	Conducted Workshop on Design Thinking, critical thinking and Innovation Design	1 DAY	24 February 2024
6	The future of work adopting to remote and flexible models	1 DAY	02-Mar-24
7	2 Days Workshop – Hands on workshop on Drone Technologies	2 DAYS	26,27 March 2024
8	Intellectual property rights and IP management for start up	1 DAY	03 May 2024
9	Two Days Workshop on Machine Learning	2 DAYS	1-2 November 2024
10	Five Days Workshop on ANSYS WORK BENCH	5 DAYS	28 OCT-2 Nov 2024

4.5.2 Publication of technical magazines, newsletters, etc. (5)

Institute Marks : 5.00

Patents

SNO	Participants	Title	Published by	Year
1	Mr. NEELAM KARTHIK	Compact CPU Cooling System	The Patent Office Journal No. 42/2024 Dated 18/10/2024	18/10/2024
	Mr. BONEPALLY SAHITH REDDY			
	Mr. THIPPARTHI RAJA GOPALA CHARY			
2	Mr. ALLA KUNDAN RAJESH	ADJUSTABLE FOOT REST	The Patent Office Journal No. 36/2024 Dated 06/09/2024	06/09/2024
	Mr. ELIMINETY VAMSHIDHAR REDDY			



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Association of Mechanical Engineers
Student Activity Centre
Department of Mechanical Engineering
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International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES) 21st and 22nd June 2024

An International Conference ICIMES was conducted by the department of Mechanical Engineering, MRCET campus. It is a prestigious event organized with a motivation to provide an excellent international platform for the academicians, researchers, engineers, industrial participants and budding students around the world to share their research findings with the global experts.



The key intention of ICIMES 2024 is to provide opportunity for the global participants to share their ideas and experience in person with their peers expected to join from different parts of the world. In addition, this gathering will help the delegates to establish research or business relations as well as to find international linkage for future collaborations in their career path.



Main highlights and topics of the conference

INTELLIGENT MANUFACTURING SYSTEMS, includes the topics hybrid

machining, polymers, composites and nano materials, tribology, design thinking & prototyping, and product life cycle strategies and

AUTOMATION AND ROBOTICS contains Artificial Intelligence & Machine Learning, Computer Vision, Intelligent Modelling, Simulation and Optimization, and Digital Twin.

RECYCLING TECHNOLOGIES AND SUSTAINABLE ENERGY SYSTEMS to analyze state of the art developments, innovations and future trends Recycling Technologies and Sustainable Energy Systems covers the topics Biomass and Biofuels, CO₂ Capture, Cryogenics and Jet Propulsion, Bio Mechanics, Heat and Mass Transfer, Intelligent Transport Systems, Electric and Hybrid Cars, Energy storage systems and Smart grids.

We hope that ICIMES-2024 outcome will lead to significant contributions to the knowledge base in these up-to-date scientific fields in scope.

A TWO DAYS WORKSHOP ON DRONE TECHNOLOGIES

On 26th and 27th of March 2024 SPACE CHASE PVT LTD organized a TWO days workshops for the students at MRCET-TBI



With the help of this this workshop students had hands on experience with the drone



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Department of Mechanical Engineering
MRCET, Campus, Jodhpur
www.mrcet.ac.in

DECISION 2024

assembly and gain knowledge regarding the different component (Hardware of Drones)



and the technology that supports the lift and flight of the drone.

Industrial Visit to DIESEL LOCO SHED-MOULA ALI on 9th March 2024

MRCET Mechanical students visited DIESEL LOCO SHED, MOULA ALI in Secunderabad. The objective of this industrial visit is to provide students an insight regarding the internal working of Indian Railways.

We know theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, the industrial visit provides



the student a practical perspective on the world of work. It provides students with an opportunity to learn practically through interaction, working methods and employment practices. It gives them exposure to current work practices as

opposed to possibly theoretical knowledge being taught at the college.

During the visit the students also got an idea of various industrial engineering concepts including, Industrial safety measurements, different assembly lines, and material movement in assembly line etc. It was an enlightening experience in which the students got a chance to get themselves familiar to the practical knowledge of the different stages of Manufacturing. This visit was to enhance the knowledge of students in spheres of manufacturing, production and assembling and quality assessment.

The visit was an informative experience satisfying the curiosity of engineering students, where they could relate to the theoretical knowledge of the subjects to the practical application in industry.

PATENT PUBLISHED BY MECH STUDENTS/FINAL YEAR STUDENTS



4th year Mechanical engineering student received PATENT published on "Compact CPU Cooling System" on 18/10/2024 with respect to the patent number 42/2024. This work has been done in their internship at NIT Jamshedpur.

Another patent, which published on ADJUSTABLE FOOT REST, on 08/08/2024, in patent number 36/2024. These two patents are published in collaboration with faculty from NIT Rourkela and NIT Jamshedpur.



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**ONE DAY VISIT OF T-WORKS,
Gachibowli, Hyderabad**

MKCET mechanical students visited T-WORKS in Hyderabad



The objective of this industrial visit is to provide students an insight regarding the internal working of T-WORKS which is Asia's largest incubation centre. Their student got to learn how innovation should convert to a full-scale industry. Students went through different models were prepared by the entrepreneurs



Student interacted with different group of entrepreneurs from different countries also few students pitched their ideas in conversation with them

VISION

To become an innovative knowledge centre in mechanical engineering through state-of-the-art teaching-learning and research practices, promoting creative thinking professionals.

MISSION

The Department of Mechanical Engineering is dedicated for transforming the students into highly competent Mechanical engineers to meet the needs of the industry, in a changing and challenging technical environment, by strongly focusing in the fundamentals of engineering sciences for achieving excellent results in their professional pursuits.

QUALITY POLICY

- To pursue global Standards of excellence in all our endeavours namely teaching, research and continuing education and to remain accountable in our core and support functions, through processes of self-evaluation and continuous improvement.
- To create a midst of excellence for imparting state of art education, industry-oriented training research in the field of technical education.

4.5.3 Participation in inter-institute events by students of the program of study (10)

Institute Marks : 10.00

Participation in Inter-Institute Events by students of the program of study

Co-Curricular Activities 2022-2025				
S.NO	EVENT	WINNERS NAME	GRADE	YEAR
1	SIH-2022	BHUKYA NAVEEN	SECOND	2022-2023
2	SIH-2022	SANJAY	SECOND	2022-2023
3	SIH-2022	SRINIVAS	SECOND	2022-2023
4	SIH-2022	IBRAHIM	SECOND	2022-2023
5	SIH-2022	ARUNA	SECOND	2022-2023
6	SIH-2022	VIVEK	SECOND	2022-2023
7	Design war AKSHARA 2k24	KOTARI SREE NIKHIL	THIRD	2023-2024
8	ROBORALLY-vishesh 2k23	MOHAMMED IMRAN	THIRD	2023-2024
9	ROBORALLY-vishesh 2k23	BHUKYA. NAVEEN	THIRD	2023-2024
10	ROBORALLY-vishesh 2k23	BOLLAPELLI VIVEK	THIRD	2023-2024
11	DANCE O DANCE	NEELAM KARTHIK	FIRST	2023-2024
12	AUTO QUIZ/IGNITO	KANSOTH SRICHAND	SECOND	2024-2025
13	CAD COMPETITION/IGNITO	S RAHUL	SECOND	2024-2025

Participation in Co-Curricular Activities by students of the program of study in 2022-2023

S.NO	STUDENT NAME	EVENT	YEAR
1	AQIB AHMED KHAN	MEGA MIND- AKSHARA 2k23	2022-2023
2	BANDARU SRINIVAS	MEGA MIND- AKSHARA 2k23	2022-2023
3	B HARI KRISHNA	MEGA MIND- AKSHARA 2k23	2022-2023
4	M.ANUSHA	MEGA MIND- AKSHARA 2k23	2022-2023
5	BHUKYA PRASHANTH	MEGA MIND- AKSHARA 2k23	2022-2023
6	BOLLE VIKAS	MEGA MIND- AKSHARA 2k23	2022-2023
7	M.ANUSHA	DESIGN WAR AKSHARA 2k23	2022-2023
8	EDUBILLI MOHAN SAI	DESIGN WAR AKSHARA 2k23	2022-2023
9	BHUKYA PRASHANTH	DESIGN WAR AKSHARA 2k23	2022-2023
10	THOTLA ARUNA	DESIGN WAR AKSHARA 2k23	2022-2023
11	DUVVA DEVANG	DESIGN WAR AKSHARA 2k23	2022-2023
12	B HARI KRISHNA	DESIGN WAR AKSHARA 2k23	2022-2023
13	NEELAM KARTHIK	BUILD AND DESTROY AKSHARA 2k23	2022-2023
14	BUNGA PAVAN KUMAR	BUILD AND DESTROY AKSHARA 2k23	2022-2023
15	CHINTALA SAI TEJA	BUILD AND DESTROY AKSHARA 2k23	2022-2023
16	DHUMAL PRASAD	BUILD AND DESTROY AKSHARA 2k23	2022-2023
17	BHUKYA PRASHANTH	IDEATHON -Promethean The Annual Technical Fest	2022-2023
18	M.ANUSHA	IDEATHON -Promethean The Annual Technical Fest	2022-2023
19	B HARI KRISHNA	IDEATHON -Promethean The Annual Technical Fest	2022-2023

Participation in Co-Curricular Activities by students of the program of study in 2023-2024:



S.NO	STUDENT NAME	EVENT	YEAR
1	ALLAM NITHIN REDDY	DESIGN WAR AKSHARA 2K24	2023-2024
2	THOKALA NARESH	DESIGN WAR AKSHARA 2K24	2023-2024
3	ATHRAM RAMAKRISHNA	DESIGN WAR AKSHARA 2K24	2023-2024
4	BOLLAPELLI VIVEK	DESIGN WAR AKSHARA 2K24	2023-2024
5	GHANAMUKHI HEMANTH	DESIGN WAR AKSHARA 2K24	2023-2024
6	JERIPETTI VAMSHI	DESIGN WAR AKSHARA 2K24	2023-2024
7	LAYAKAR RUGVEDH BOLLA	DESIGN WAR AKSHARA 2K24	2023-2024
8	MARRI MANOJ KUMAR REDDY	RECKON THE ORE AKSHARA 2K24	2023-2024
9	PRAJAPATI ALOK KUMAR	RECKON THE ORE AKSHARA 2K24	2023-2024
10	BOGA SANTHOSH	RECKON THE ORE AKSHARA 2K24	2023-2024
11	THOTLA ARUNA	RECKON THE ORE AKSHARA 2K24	2023-2024
12	MARUKONDA SHIVASAI	RECKON THE ORE AKSHARA 2K24	2023-2024
13	POOJAM DEEPAK	RECKON THE ORE AKSHARA 2K24	2023-2024
14	JERIPETTI VAMSHI	MINE DETABE AKSHARA 2K24	2023-2024
15	LAYAKAR RUGVEDH BOLLA	MINE DETABE AKSHARA 2K24	2023-2024
16	MARUTHI VAMSHI KRISHNA	MINE DETABE AKSHARA 2K24	2023-2024
17	MOHAMMED IMRAN	VISHESH 2K23 ROBO RALLY	2023-2024
18	PEDDAGOLLA SRISHYLA	VISHESH 2K23 ROBO RALLY	2023-2024
19	NARADALA RAKESH	VISHESH 2K23 ROBO RALLY	2023-2024
20	NEELAM KARTHIK	VISHESH 2K23 ROBO RALLY	2023-2024
21	PATHLAVATH VITTAL	VISHESH 2K23 ROBO WAR	2023-2024
22	THOTLA ARUNA	VISHESH 2K23 ROBO WAR	2023-2024
23	PRAJAPATI ALOK KUMAR	VISHESH 2K23 ROBO WAR	2023-2024
24	SAI AKHIL MAROJU	VISHESH 2K23 ROBO WAR	2023-2024
25	SHAIK DULSHAN	LIFT OFF DRONE-WORKSHOP	2023-2024
26	NAGALLA SAI VAMSHI	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
27	NAGUR REHAMATHULLA	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
28	PABBATHI PRASAD	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
29	PAGIDIPALLY VINAY	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
30	SURI VENKAT SAI	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
31	VALLAPUDAS SHASHIDHAR	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
32	SHAIK DULSHAN	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
33	CHOUNDARI RAKESH	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
34	DAIDAJEEVAN	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
35	KALLURI TARUN TEJA	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024

36	ALLAMNITHIN REDDY	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
37	ATHRAMRAMA KRISHNA	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
38	ATTHISAI KIRAN	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
39	BHUKYA NAVEEN	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
40	BONEPALLY SAHITH REDDY	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
41	DEVIREDDY SUJITH REDDY	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
42	DHARAVATHABHI DAS	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024
43	GHANAMUKHIHEMANTH	INTERPERSONAL SKILLS/WADWANI FOUNDATION	2023-2024



Participation in Co-Curricular Activities by students of the program of study in 2024-2025:

S.NO	STUDENT NAME	EVENT	YEAR
1	NAGUR REHAMATHULLA	MSME-2024	2024-2025
2	MADASI NIVAS	PAPER/POSTER PRESENTATION IGNITO	2024-2025
3	MYADAVARAM VISHAL	PAPER/POSTER PRESENTATION IGNITO	2024-2025
4	DUBBA VIVEK	PAPER/POSTER PRESENTATION IGNITO	2024-2025
5	NEREDUMALLI SANDEEP	PAPER/POSTER PRESENTATION IGNITO	2024-2025
6	BANOTHU LAXMAN	PAPER/POSTER PRESENTATION IGNITO	2024-2025
7	SHAIK SAMEER AHMED	CAD COMPETITION/IGNITO	2024-2025
8	TELUGU RAVI KUMAR	CAD COMPETITION/IGNITO	2024-2025
9	D.MANASA	CAD COMPETITION/IGNITO	2024-2025
10	VANGARA VENKATESH	CAD COMPETITION/IGNITO	2024-2025
11	YEMULAPALLY SAGAR	CAD COMPETITION/IGNITO	2024-2025
12	VIJAY SIMHA REDDY	CAD COMPETITION/IGNITO	2024-2025
13	VUDDAGIRI NAVEEN	AUTO QUIZ/IGNITO	2024-2025
14	PANDAGA ABHILASH	AUTO QUIZ/IGNITO	2024-2025
15	MADASI NIVAS	AUTO QUIZ/IGNITO	2024-2025
16	UDAY KIRAN	AUTO QUIZ/IGNITO	2024-2025
17	AKSHAY REDDY	AUTO QUIZ/IGNITO	2024-2025
18	KANSOTH SRICHAND	AUTO QUIZ/IGNITO	2024-2025
19	SRAVAN KUMAR	AUTO QUIZ/IGNITO	2024-2025
20	ALLA KUNDAN RAJESH	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
21	BANOTHU LAXMAN	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
22	KANSOTH SRICHAND	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
23	LAVUDYA SAIKIRAN	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
24	SANJAY MADISHETTY	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025

25	SRAVAN KUMAR	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
26	MYADAVARAM VISHAL	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
27	PANDAGA ABHILASH	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
28	SALLA RAHUL	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
29	UDAY KIRAN	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
30	RAVI KUMAR	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
31	AKSHAY REDDY	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
32	MONESH PALEPAWAR	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
33	CHALLA TIRUMALA	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
34	SANDEEP GUDIPUDI	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
35	AASHRITH DEEP	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
36	SANDEEP REDDY	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
37	KURAGAYALA NIKHITH	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
38	SAI ABHINAY PASUNUTI	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
39	POTHANSHETTY SAI SRINIVAS	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
40	SAMEER SAMEER	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
41	SHIMMULA NARENDAR	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025
42	SIDDANI JAYACHANDRA	Employability Skills – JobReady/WADWANI FOUNDATION	2024-2025

STUDENT INTERNSHIP

INTERNSHIP OF STUDENTS AT VARIOUS ORGANIZATIONS			
S NO	STUDENT NAME	ORGANIZATIONS	YEAR
1	G.MALLES	BDL	2024-2025
2	P.MONESH	BDL	2024-2025
3	SAI VIKAS .B	BDL	2024-2025
4	S.NARENDER	BDL	2024-2025
5	K.SAI RAKISHTHA	IIT BHILAI	2024-2025
6	D.MANASA	IIT BHILAI	2024-2025
7	CH.MAHESWARA REDDY	IIT BHILAI	2024-2025
8	ANAGAN DULA OMKAR	IIT BHILAI	2024-2025
9	A.YESHWANTH	IIT BHILAI	2024-2025
10	A.RAJESH	BEL	2024-2025
11	CHALLA TIRUMALA	KTPS	2024-2025
12	P.SAI ABHINAV	KTPS	2024-2025
13	SK.SAMEER AHMED	KTPS	2024-2025
14	BHUKYA NAVEEN	O&M-KTPS VII Stage	2023-2024
15	G.PRATHIK	O&M-KTPS VII Stage	2023-2024
16	BHUKYA GANESH NAYAK	O&M-KTPS VII Stage	2023-2024
17	PEDDAGOLLA SRISHYLA	O&M-KTPS VII Stage	2023-2024
18	CHINTHA REDDY BHANU PRAKASH REDDY	O&M-KTPS VII Stage	2023-2024
19	DUBBA VIVEK	O&M-KTPS VII Stage	2023-2024
20	MANTHENA SRAVAN KUMAR	O&M-KTPS VII Stage	2023-2024
21	PEDDURI SHANKAR	O&M-KTPS VII Stage	2023-2024
22	DHARAVATH ABHIDAS	NIT ROURKELA	2023-2024
23	LAYAKAR RUGVEDH BOLLA	NIT ROURKELA	2023-2024
24	KOTARI SREE NIKHIL	NIT ROURKELA	2023-2024
25	ROHAN PAWAR	NIT ROURKELA	2023-2024
26	ATHRAM RAMAKRISHNA	IIT BHILAI	2023-2024
27	BOLLAPELLI VIVEK	IIT BHILAI	2023-2024
28	NEELAM KARTHIK	IIT BHILAI	2023-2024
29	PATHLAVATH VITTAL	IIT BHILAI	2023-2024
30	BANOOTHU LAXMAN	IIT BHILAI	2023-2024
31	S. RAHUL	IIT BHILAI	2023-2024
32	BONEPALLY SAHITH REDDY	NIT JAMSHEDPUR.	2023-2024
33	GHANAMUKHI HEMANTH	NIT JAMSHEDPUR.	2023-2024
34	K. SUJETH	NIT JAMSHEDPUR.	2023-2024
35	KUNDAN RAJESH ALLA	NIT JAMSHEDPUR.	2023-2024
36	ELIMINETY VAMSHIDHA REDDY	NIT JAMSHEDPUR.	2023-2024
37	B.ANKITH	DIESEL LOCO SHED-MOULA ALI	2023-2024
38	S.JAYACHANDRA	DIESEL LOCO SHED-MOULA ALI	2023-2024
39	T. NARESH	CARRIAGE	2023-2024

		WORKSHOP,LALLAGUDA	
40	N. RAKESH	CARRIAGE WORKSHOP,LALLAGUDA	2023-2024
41	S. SAI KUMAR REDDY	CARRIAGE WORKSHOP,LALLAGUDA	2023-2024
42	G.MANIDEEP	CARRIAGE WORKSHOP,LALLAGUDA	2023-2024
43	P.ALOK KUMAR	CARRIAGE WORKSHOP,LALLAGUDA	2023-2024
44	A.NITHIN REDDY	CARRIAGE WORKSHOP,LALLAGUDA	2023-2024
45	R.BHOGEENDRA	CARRIAGE WORKSHOP,LALLAGUDA	2023-2024
46	D.SUJETH REDDY	CARRIAGE WORKSHOP,LALLAGUDA	2023-2024
47	J.VAMSHI	CARRIAGE WORKSHOP,LALLAGUDA	2023-2024

EVENTS CONDUCTED IN THE YEAR OF 2022-23



S.NO	NAME OF EVENT	DATE OF THE EVENT	NO. OF PARTICIPANTS
1	Cultivating an Innovative Mindset	22-12-2022	120
2	Engineers Day	15-09-2022	280
3	Awareness program on human values	19-10-2022	110
4	Motivational session by successful innovators	24-11-2022	100
5	Quiz Competition	26-11-2022	50
6	Pollution Control Day	02-12-2022	280
7	Two days hands on workshop on advance mechatronics	20,21,DEC2022	48
8	Ignite4.0 at SKU	03-01-2023	5
9	Design thinking , Critical thinking and Innovation Design	25-01-2023	110
10	Intellectual property rights and management for start up	28-04-2023	48

EVENTS CONDUCTED IN THE YEAR OF 2023-24

S.NO	NAME OF EVENT	DATE OF THE EVENT	NO. OF PARTICIPANTS
1	Teachers Day Celebrations	05-09-2023	60
2	Engineers Day Celebrations	15-09-2023	60
3	Entrepreneurship and Innovation as Career Opportunity	09-11-2023	150
4	Customer Centric Business	16-02-2024	60
5	Critical thinking, Design thinking Innovation Design	24-02-2024	60
6	The Future of Work Adapting to Remote and Flexible Models	02-03-2024	60
7	2 Days Hands on Workshop Drone Technologies	26&27/03/2024	90
8	Workshop on Intellectual Property Rights & IP management for Start Up	03-05-2024	40
9	Expert talk on Session discussion with innovation and start Up ecosystem enablers from the region/ state/ national level	27-07-2024	60

SPORTS 2022-2025

SNO	NAME	SPORTS	AWARDED	PLACE	YEAR
SPORTS EVENTS/COMPITATIONS PARTICIPATED BY STUDENTS IN 2024-2025					
1	D. MANASA	SOFT BALL (W)	RUNNER	MRCEW	2024-2025
SPORTS EVENTS/COMPITATIONS PARTICIPATED BY STUDENTS IN 2023-2024					
1	T. NARESH	SOFTBALL	PARTICIPATION	PUNJNAB UNIVERSITY	2023-2024
2	GUDIVENUKA MANIDEEP	KABADDI MENS	RUNNER	HITAM HYDERABAD	2023-2024
3	K SUJETH	KABADDI MENS	RUNNER	HITAM HYDERABAD	2023-2024
4	NEELAM KARTHIK	KABADDI MENS	RUNNER	HITAM HYDERABAD	2023-2024
5	DERIPETTI VAMSHI	CRICKET MENS	RUNNER	MALLAREDDY UNIVERSITY	2023-2024
6	SUNKARI PRASHANTH	CRICKET MENS	RUNNER	MALLAREDDY UNIVERSITY	2023-2024
7	VADTHYAVATH JAGAN	CRICKET MENS	RUNNER	MALLAREDDY UNIVERSITY	2023-2024
8	GUDIVENUKA MANIDEEP	KABADDI MENS	RUNNER	MALLA REDDY UNIVERSITY	2023-2024
9	K SUJETH	KABADDI MENS	RUNNER	MALLA REDDY UNIVERSITY	2023-2024
10	NEELAM KARTHIK	KABADDI MENS	RUNNER	MALLA REDDY UNIVERSITY	2023-2024
11	KALLURITARUN TEJA	VOLLEY BALL (M)	RUNNER	ANURAG UNIVERSITY	2023-2024
12	SAI AKHIL MAROJU	VOLLEY BALL (M)	RUNNER	ANURAG UNIVERSITY	2023-2024
13	THOTLA ARUNA	VOLLEY BALL (W)	3 RD PLACE	BVRIT	2023-2024
14	THATIKANTI ADITHYA	BASKET BALL	WINNERS	KTR TROPHY	2023-2024
SPORTS EVENTS/COMPITATIONS PARTICIPATED BY STUDENTS IN 2022-2023					
1	K. GOPICHAND	KABADDI	PARTICIPATION	BHARATHIDASAN	2022-2023
2	ROHAN S MUDAY	CARROMS	PARTICIPATION	MREC(A)	2022-2023
3	SHARMA SHASHI KIRAN	CRICKET MEN	PARTICIPATION	MREC(A)	2022-2023
4	SUNKARI AKSHAY	VOLLYBALL	PARTICIPATION	MREC(A)	2022-2023

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 200.00

Sr. No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof / Assoc. Prof.)	Initial Date of Joining	Association Type	At present working with the Institution (Yes / No)	Date of Leaving	IS HOD?
1	Dr. P.H.V.S TALPA SAI	ADYPP7698A	ME/M. Tech and PhD	28/02/2015	Mechanical Engineering	28	2	1	Professor	13/05/2015	02/07/2014	Regular	Yes		No
2	Dr. POTNURU SRIKAR	BAQPP9984H	ME/M. Tech and PhD	14/12/2016	Mechanical Engineering	7	2	0	Professor	01/06/2021	17/01/2017	Regular	Yes		Yes
3	Dr. BORUKATI SANDHYA RANI	CLVPS0119Q	ME/M. Tech and PhD	28/09/2021	Mechanical Engineering	9	0	0	Associate Professor	12/09/2018	12/07/2017	Regular	Yes		No
4	Dr.DESU DAMODARA REDDY	AEWPR4293Q	ME/M. Tech and PhD	22/12/2022	Mechanical Engineering	11	0	0	Associate Professor	16/07/2015	01/06/2013	Regular	Yes		No
5	Dr.YANGALADASU DILIP KUMAR	AVDPD3714C	ME/M. Tech and PhD	06/03/2024	Mechanical Engineering	6	0	0	Associate Professor	01/07/2013	01/07/2013	Regular	Yes		No
6	Dr. CHANDHRA SEKHAR K	AOUPC4835K	ME/M. Tech and PhD	10/11/2020	Mechanical Engineering	6	0	0	Associate Professor	01/06/2022	01/06/2022	Regular	Yes		No
7	Dr. RAJAMMAGARI HUSSAIN VALI	BZEPR2935R	ME/M. Tech and PhD	01/07/2022	Mechanical Engineering	5	0	0	Associate Professor	15/06/2022	15/06/2022	Regular	Yes		No
8	Dr. JADAM THRINADH	AZTPJ3076B	ME/M. Tech and PhD	02/02/2021	Mechanical Engineering	0	0	0	Associate Professor	17/06/2022	17/06/2022	Regular	Yes		No
9	Mr. KATRAVATH BICHA	BTZPK9618M	M.E/M.Tech	16/04/2008	Energy System	4	0	0	Associate Professor	07/06/2019	06/07/2012	Regular	Yes		No
10	Mr. CHAMALA DAKSHEESWARA REDDY	BFXPR8967J	M.E/M.Tech	21/11/2011	Machine Design	0	0	0	Associate Professor	07/06/2019	01/07/2014	Regular	Yes		No
11	Mrs. S. DEEPTHI	AEFPH4023K	M.E/M.Tech	11/08/2015	CAD/CAM	0	0	0	Associate Professor	08/06/2019	08/06/2019	Regular	No	14/12/2024	No
12	Mr. S. SHAILESH BABU	BPAPS3946H	M.E/M.Tech	12/06/2013	CAD/CAM	0	0	0	Associate Professor	07/06/2019	14/09/2011	Regular	Yes		No
13	Mr. VIVEKANANDA SOMA	DBYPS2949E	M.E/M.Tech	13/12/2010	Tool Design	2	0	0	Assistant Professor		19/12/2013	Regular	Yes		No
14	Mr.VENNAM GOPALA KRISHNA	ANXPV2096F	M.E/M.Tech	07/10/2015	Thermal Engineering	2	0	0	Assistant Professor		04/01/2016	Regular	Yes		No

15	Mrs. INDRAJA BHADRI	ACHPI2841L	M.E/M.Tech	17/12/2014	CAD/CAM	0	0	0	Assistant Professor		29/02/2016	Regular	Yes		No
16	Mrs. KASULA NAVYASRI	DWPPK2198D	M.E/M.Tech	14/09/2018	Machine Design	0	0	0	Assistant Professor		21/01/2019	Regular	Yes		No
17	Mr. NARAYANA MURTHI CHANDRAGIRI	AYVPC1217C	M.E/M.Tech	12/01/2018	Thermal Engineering	1	0	0	Assistant Professor		07/06/2022	Regular	Yes		No
18	Dr. SRIDHAR AKARAPU	CLOPS5012F	ME/M. Tech and PhD	03/10/2024	Mechanical Engineering	3	0	0	Assistant Professor		12/07/2017	Regular	Yes		No
19	Mr. KOLIMI BHARATH BHUSHAN REDDY	BOKPK0997P	M.E/M.Tech	29/01/2016	Thermal Engineering	0	0	0	Assistant Professor		08/02/2016	Regular	Yes		No
20	Mr. DOMMETI MANI KUMAR	FNNPM5896P	M.E/M.Tech	04/12/2021	Thermal Engineering	2	0	0	Assistant Professor		06/06/2022	Regular	Yes		No
21	Mr. SAI SRIKANTH VEMURI	AURPV1133E	M.E/M.Tech	10/08/2016	Machine Design	5	0	0	Assistant Professor		27/03/2023	Regular	Yes		No
22	Dr. T. SIVAKUMAR	BGIPS6130G	ME/M. Tech and PhD	12/01/2016	Mechanical Engineering	2	0	0	Professor	07/02/2018	07/02/2018	Regular	No	19/01/2024	No
23	Mr. VENKATA SUBBARAO DANTAM	AKXPD2175N	M.E/M.Tech	23/04/2015	Machine Design	0	0	0	Associate Professor	07/06/2019	04/07/2014	Regular	No	01/09/2023	No
24	Mrs. MISBA MEHDI	AUJPM0611Q	M.E/M.Tech	21/10/2015	Machine Design	1	0	0	Assistant Professor		21/10/2015	Regular	No	16/09/2023	No
25	Mr. P JEYAVEL PALANISAMY	ADNPJ5944L	M.E/M.Tech	23/06/2014	Machine Design	1	0	0	Assistant Professor		16/12/2021	Regular	No	06/10/2023	No
26	Mr. GADI KARTHIK	BCJPG9929A	M.E/M.Tech	06/01/2016	Machine Design	0	0	0	Assistant Professor		04/05/2019	Regular	No	07/11/2023	No
27	Mr. KONDA SAIDULU	DWVPK9311R	M.E/M.Tech	19/09/2011	Machine Design	0	0	0	Assistant Professor		15/11/2017	Regular	No	10/10/2023	No
28	Mr. MUGULUTLA SAI RAM	BTFFPM5293L	M.E/M.Tech	29/01/2016	Machine Design	0	0		Assistant Professor		19/01/2017	Regular	No	07/12/2023	No
29	Mr. GARA SAI PRAKASH	AWOPG9885H	M.E/M.Tech	15/06/2016	Machine Design	0	0	0	Assistant Professor		19/01/2017	Regular	No	13/09/2023	No
30	Mrs. HASEENA BEE	BXBPP4435M	M.E/M.Tech	06/05/2013	CAD/CAM	0	0	0	Assistant Professor		02/07/2012	Regular	No	20/12/2023	No
31	Mr. MAHENDRA BOMMAJI	CBPPM2950R	M.E/M.Tech	18/03/2014	Machine Design	0	0	0	Assistant Professor		08/04/2015	Regular	No	20/01/2024	No

32	Mr. GUGULOTH HATHIRAM	AERPH7635D	M.E/M.Tech	16/07/2012	Advanced Manufacturing Process	0	0	0	Assistant Professor		18/01/2020	Regular	No	28/12/2023	No
33	Dr. T. LOKESWARA RAO	AFEPT8877M	ME/M. Tech and PhD	22/01/2016	Mechanical Engineering	2	0	0	Professor	25/06/2018	25/06/2018	Regular	No	14/12/2024	No
34	Dr. M. MOHAMMED MOHAIDEEN	AVPPM5418G	ME/M. Tech and PhD	17/12/2020	Mechanical Engineering	10	0	0	Professor	01/03/2021	01/03/2021	Regular	Yes		No
35	Dr. KRISHNA ANAND V G	CHDPK4444A	ME/M. Tech and PhD	02/12/2020	Mechanical Engineering	3	0	0	Associate Professor	22/03/2021	22/03/2021	Regular	Yes		No
36	Dr. B JAIN A R TONY	BIRPR3729M	ME/M. Tech and PhD	27/12/2018	Mechanical Engineering	0	0	0	Associate Professor	13/03/2019	01/12/2018	Regular	No	01/06/2023	No

5.1 Student-Faculty Ratio (SFR) (20)

Total Marks 20.00

UG

No. of UG Programs in the Department 1

Mechanical Engg.						
Year of Study	CAY		CAYm1		CAYm2	
	(2024-25)		(2023-24)		(2022-23)	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd Year	30	3	30	3	60	6
3rd Year	30	3	60	6	60	6
4th Year	60	6	60	6	180	18
Sub-Total	120	12	150	15	300	30
Total	132		165		330	
Grand Total		132	165		330	

PG

No. of PG Programs in the Department 2

Machine Design			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	18	24	24
2nd Year	24	24	24
Total	42	48	48
Thermal Engg.			
Year of Study	CAY(2024-25)	CAYm1(2023-24)	CAYm2 (2022-23)
	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	0	24	24
2nd Year	24	24	24
Total	24	48	48
Grand Total		66	96

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 2

Description	CAY(2024-25)		CAYm1 (2023-24)		CAYm2 (2022-23)	
Total No. of Students in the Department(S)	<div>198</div>	Sum total of all (UG+PG) students	<div>261</div>	Sum total of all (UG+PG) students	<div>426</div>	Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	<div>22</div>	F1	<div>24</div>	F2	<div>35</div>	F3
Student Faculty Ratio(SFR)	<div>9.00</div>	SFR1=S1/F1	<div>12.17</div>	SFR2=S2/F2	<div>10.88</div>	SFR3=S3/F3
Average SFR	<div>10.68</div>	SFR=(SFR1+SFR2+SFR3)/3				
F=Total Number of Faculty Members in the Department (excluding first year faculty)						

Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2024-25)	22	0
CAYm1(2023-24)	24	0
CAYm2(2022-23)	35	0

Average SFR for three assessment years : 10.68

Assessment SFR : 20

5.2 Faculty Cadre Proportion (20)

Total Marks 20.00

Institute Marks : 20.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2024-25)	1.00	3.00	2.00	7.00	6.00	12.00
CAYm1(2023-24)	1.00	4.00	2.00	6.00	8.00	14.00
CAYm2(2022-23)	2.00	5.00	4.00	6.00	14.00	24.00
Average Numbers	1.33	4.00	2.67	6.33	9.33	16.67

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 10 : 20.00

5.3 Faculty Qualification (20)

Total Marks 20.00

Institute Marks : 20.00

	X	Y	F	$FQ = 2 \times [(10X + 4Y) / F]$
2024-25(CAY)	10	12	9.00	32.89
2023-24(CAYm1)	10	14	13.00	24.00
2022-23(CAYm2)	11	24	21.00	19.62

Average Assessment : 25.50

5.4 Faculty Retention (10)

Total Marks 10.00

Description	2023-24 (CAYm1)	2024-25 (CAY)
No of Faculty Retained	23	21
Total No of Faculty	21	21
% of Faculty Retained	110	100

Average : 105.00

Assessment Marks : 10.00

5.5 Faculty competencies in correlation to Program Specific Criteria (10)

Total Marks 10.00

The Program Specific Outcomes(PSOs) of the department are given below:

PSO1
Ability to analyze, design and develop Mechanical systems to solve the Engineering problems by integrating thermal, design and manufacturing domains.
PSO2
Ability to succeed in competitive examinations or to pursue higher studies or research.
PSO3
Ability to apply the learned Mechanical Engineering knowledge for the development of society and self.

The department faculty members are specialized in diversified areas of Mechanical Engineering like Machine Design, Thermal Engineering, Manufacturing and Materials, Robotics and Automation and Engineering Management are trained to nurture the students to achieve program specific criteria.

Further, the faculty members have published in renowned Journals and received funds from various companies for consultancy works. Faculty members have good research exposure and have published research papers in journals of repute (Springer, IEEE, ACS, AIP etc.) and presented several papers in national and international conferences.

The faculty also participates in FDPs to upgrade their knowledge in latest field of research: Faculty is also actively involved in developing web site of the department, individual google pages, student feedback, autonomous activities and technical events.

Faculty also takes keen interest in developing central library facility by recommending latest books for the benefit of students and faculty. Recruitment of faculty is made as per the prescribed norms for the university and is recruited from all fields of specialization, very well suited to the programme of studies.

The program specific criteria are correlated with competencies of Faculty members through their specialization along with patents filed, research publications, FDP, workshop, conferences attended, and products developed in specific domains as specified under the title of five clusters in the tables shown below.

FACULTY SPECIALIZATIONS



1.ENGINEERING DESIGN CLUSTER			
Name of the Faculty	Designation	Specialization	Attainment of PSOs
Dr.P.H.V. Sesha Talpa Sai	Professor	Machine Design	PSO1,PSO2, PSO3
Dr.B Jain AR Tony	Associate Professor	Machine Design	
Mr. C Daksheeswara Reddy	Assistant Professor	Machine Design	
Mr. D.VenkataSubbaRao	Assistant Professor	Machine Design	
Mr. Mahendra Bommai	Assistant Professor	Machine Design	
Mrs. Misba Mehadi	Assistant Professor	Machine Design	
Mrs. K Navya Sri	Assistant Professor	Machine Design	
Mr. M Sai Ram	Assistant Professor	Machine Design	
Dr. B. Bharath Bhushan Reddy	Assistant Professor	Machine Design	
Mr. G. Hathiram	Assistant Professor	Machine Design	
Mrs. S. Deepthi	Assistant Professor	Machine Design	
Mr. G. Sai Prakash	Assistant Professor	Machine Design	



2.THERMAL ENGINEERING CLUSTER

Name of the Faculty	Designation	Specialization	Attainment of PSOs
Dr.D. Damodhara Reddy	Associate Professor	Thermal Engineering	PS01,PS02, PS03
Dr.Y. Dilip Kumar	Associate Professor	Thermal Engineering	
Dr. Krishna Anand	Associate Professor	Thermal Engineering	
Dr. M. Mohammad	Associate Professor	Thermal Engineering	
Dr. R. Hussain Vali	Assistant Professor	Thermal Engineering	
Mr. K. Bicha	Associate Professor	Thermal Engineering	
Mr. VGopalaKrishna	Assistant Professor	Thermal Engineering	
Mr. D. Mani Kumar	Assistant Professor	Thermal Engineering	
Mr. G. karthik	Assistant Professor	Thermal Engineering	
Mr. V. Sai Srikanth	Assistant Professor	Thermal Engineering	



3.ROBOTICS AND AUTOMATION ENGINEERING CLUSTER

Name of the Faculty	Designation	Specialization	Attainment of PSOs
Dr.T. Lokeswara Rao	Associate Professor	CAD/CAM	PS01,PS02, PS03
Dr. B SandhyaRani	Associate Professor	CAD/CAM	
Dr. Akarapu Sridhar	Assistant Professor	CAD/CAM	
Mrs. P HaseenaBee	Assistant Professor	CAD/CAM	
Mr. K Saidulu	Assistant Professor	CAD/CAM	
Mr. S Shailesh Babu	Assistant Professor	CAD/CAM	
Mrs. Indraje Bhadri	Assistant Professor	CAD/CAM	



4.MANUFACTURING AND MATERIALS ENGINEERING CLUSTER			
Name of the Faculty	Designation	Specialization	Attainment of PSOs
Dr. Potnuru Srikar	Professor	Surface Engineering	PSO1,PSO2, PSO3
Dr. T. Siva Kumar	Associate Professor	Manufacturing Engineering	
Dr. K. Chandra Sekhar	Associate Professor	Manufacturing Engineering	
Dr. J. Trinadh	Associate Professor	Manufacturing Engineering	
Mr. SVivekanand	Assistant Professor	Tool Design	
Mr. Jeyavel	Assistant Professor	Advance Manufacturing Systems	
Mr. Ch. Narayana Murthy	Assistant Professor	Manufacturing Engineering	

RESEARCH ACTIVITIES

To motivate the faculty members in research activities, the department recently organized a One day seminar on **RESEARCH SCHOLARS CONCLAVE** in technical association. The details of the seminar are as follows

THEME OF THE RESEARCH SCHOLARS CONCLAVE

Research Methodology is indispensable in every field of higher education especially technical education; be it Electronics & Communication Engineering, Computer Science Engineering, Information Technology, Mechanical Engineering, Aeronautical Engineering, Electrical Engineering, Humanities & Sciences or Master of Business Administration. Though it is a critical component for all the branches of knowledge, it is hardly getting the attention it deserves in various disciplines across the country. To fulfill this need, organizing this type of summits and workshops is to be further intensified in order to bring awareness among research scholars to widely use quantitative techniques and computer software packages for objective and qualitative research. With this backdrop MRCET has taken the initiative in organizing a One day RESEARCH SCHOLARS Conclave for the students aspiring to undertake research career, pursuing Ph.D scholars and teaching faculty members. This summit will make an attempt to provide a road map to research scholars for successful completion of quality research work in their respective fields.



Every year, The department also has taken initiation in organizing **Springer's International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES)**.

Faculty members are made to involve in various activities pertaining to the above conference which will help them to improve their competencies in correlation to Program Specific criteria. The details of ICIMES 2024 are mentioned below.



International Conference on
Intelligent Manufacturing and Energy Sustainability (ICIMES – 2024)
June 21-22, 2024
Conference Committee

Committee Name	Faculty Name
Convener	Dr. S. Srinivasa Rao
Co-Convenor	Dr. P.H.V. Sessa Talpa Sai
Organizing Chair and Editor	Dr. P. Srikar
Organizing Secretary	Dr. M. Sharanya, Assoc. Professor & HOD, EEE, MRCET Dr. R. Hussain Vali, Asst. Professor, MECH, MRCET
Session Co-Chairs	Dr. D.Damodhara Reddy Dr. Venkata Ramana Reddy Dr. T. Lokeswara Rao
Coordinators	Dr. B. Sandhya Rani Dr. K. Chandra Sekhar - Assoc. Professor, MECH, MRCET Dr. M. Mohammed Mohaideen - Assoc. Professor, AERO, MRCET Dr. G. Madhu Mohan - Asst. Professor, EEE, MRCET
Programme Committee	Mr. M.Ramanjaneyulu Dr. C.Ravishankar Reddy Mr. N. Ramesh
Conference website Design	Mr. M Harish
e-campaign	Mrs. Indira Bhadri Mr. Ch. Naraya Murthy Mr. V. Sai Srikanth

Campaigning brochures/ invitations	Mr. S Vivekananda Mr. D. Manikumar Mr. K. Bicha
Easy Chair Review Committee & Schedule Preparation	Mr. R. Hussainvali Mr. A Sridhar Mr. Gopala Krishna
Proceedings (Souvenir) Committee	Mrs. B. Sandhya rani, Mrs. K Navya Sri Mrs. S. Deepthi
Registration Committee	Dr. Damodara Reddy Mrs. Indrāja Bhadri Mr. S. Vivekanadha
Hospitality Committee	Mr. D. Manikumar Mr. S Vivekananda Mr. Ch. Narayana Murthy
Anchoring Committee	Mrs. Indrāja Bhadri Mrs. K. Navya Sri
Certificate & feedback Committee	Dr. B Sandhya Rani Dr. K. Chandra Sekhar
Decoration Committee	Mr. K Bicha Mr. S Vivekananda
Rangoli Committee	Ms. S. Deepthi Ms. Y Indrāja
Photography Committee	Mr. A Sridhar Mr. K. Bicha
VIP Receiving Committee (from Airport/ Railway Station)	Dr. P Srikar Mr. V Gopala Krishna
Skype/ Online Presentation	Mr. V Gopala Krishna



www.icimes.in

Springer
SIST Series ISSN: 2190 - 3018

(ICIMES-2024)

SIXTH INTERNATIONAL CONFERENCE ON INTELLIGENT MANUFACTURING AND ENERGY SUSTAINABILITY
June 21-22, 2024

Springer SPRINGER NATURE
All accepted and registered papers will be published: Springer Publications Series "The Smart Innovation Systems and Technologies (SIST)" ISSN: 2190-3018.
<https://link.springer.com/book/10.1007/978-981-99-6774-2>

Theme of the Conference:
Empowering Intelligent Manufacturing for Sustainable Futures: Bridging Innovation and Energy Efficiency. Embrace the synergy of technology and sustainability to foster global collaboration, advancing towards responsible consumption and production for a resilient and energy-sustainable world.
Volume: Sustainable Consumption and Production (SDG-12)

Important Dates:
Full Paper Submission Last Date : 30 April, 2024
Paper Acceptance Phase I : 01 May, 2024
Paper Acceptance Phase II : 15 May, 2024
Last Date of Registration : 31 May, 2024
Conference Dates : 21-22 June, 2024

Address for Correspondence :
Organizing Secretary, ICIMES-2024
+91-9502862779 / +91-7064364314
icimes@mrct.ac.in www.icimes.in

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution - UGC, Govt. of India)
(Affiliated to JNTU Hyderabad, Approved by AICTE - Accredited by NBA & NAAC - 'A' Grade - ISO 9001:2015 Certified)

Maisammaguda, Dhuleepally, Secunderabad - 500100
Telangana State, India.
www.mrct.ac.in

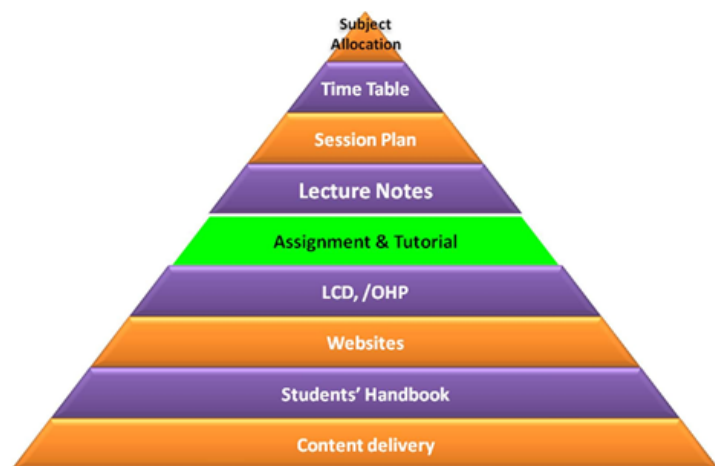
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Other Conferences organized by the department:

Name of the Conference	Date & Year
3 rd International Conference on Emerging Trends in Mechanical Sciences - ICEMS 2K21	June 18-19, 2021
4 th International Conference on Emerging Trends in Mechanical Sciences - ICEMS 2k22	June 24-25, 2022
5 th International Conference on Intelligent Manufacturing and Energy Sustainability - ICIMES 2023	June 23-24, 2023

5.6 Innovations by the Faculty in Teaching and Learning (10)

Total Marks 10.00



Step 1: The subjects are to be divided into two categories, which are theoretical and mathematical. Then, the faculty members are requested to give their preferences (at-least 3 subjects) in each category. With that list, the HOD finalizes the subjects by considering the specialization of the staff, experience and other workload of staff etc. The subjects are allocated well in time so that the faculty can prepare the course plan consisting of course delivery methods, assessment plan, assignment frequency. And the same is monitored by the HOD before commencement of the class. Weekly progress is monitored and reported to Dean Academics.

Step 2: The time table is framed by the Department Timetable Committee and it has to be approved by the HOD and Principal. The primary requirement of the timetable is to ensure that it enables students to complete core units in a course level, to satisfy course rules and to complete elective combinations that are specified by course regulations to fulfill the requirements of the award.

Teaching activities will be scheduled at times and in places that are consistent with:

- Facilitating student attendance and maximizing student choice
- The use of specialist teaching space for its designated purpose
- Occupational health and safety and fire code regulations (e.g. room capacity restrictions, staff working conditions)
- Utilizing teaching space and resources effectively and efficiently, consistent with allocations being equitable for staff and students and compatible with pedagogic requirements.
- Activities will be scheduled in patterns that produce manageable teaching times for staff and allow staff appropriate time for other activities such as research, administration and post-graduate supervision.

Step 3: A Session plan is the instructor's road map of what students need to learn and how it will be done effectively during the class time. Before you plan your lesson, you will first need to identify the learning objectives for the class meeting. Then, you can design appropriate learning activities and develop strategies to obtain feedback on student learning. A successful Session plan addresses and integrates these three key components:

- Objectives for student learning
- Teaching/learning activities
- Strategies to check student understanding

Step 4: Lecture Notes provide a record of the lecture content. It is prepared for all the Subjects by the concerned Faculty members teaching the specific subjects. It helps the students to learn and remember the ideas and facts presented. Reorganized or edited notes may form the basis for integrating all course materials and information. Notes encourage the students to take an active thinking part in the lecture and to do reference. It is also important to

specify the references at the end of each topic for clarity and information.

Step 5: Periodical Assignments are given by the Faculty in the respective subjects for their knowledge improvement and evaluation.

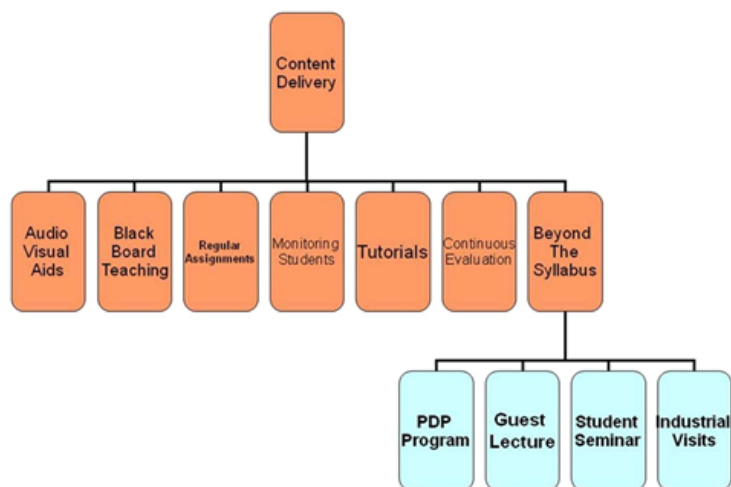
Framing of Assignments:

- Consider the learning objectives.
- Design assignments that are interesting and challenging.
- Double-check alignment.
- Provide information about the appropriate format and presentation (e.g., page length, typed, cover sheet, bibliography)
- Indicate special instructions, such as a particular citation style or headings
- Specify the due date and the consequences for missing it
- Articulate performance criteria clearly
- Indicate the assignment's point value or percentage of the course grade
- Provide the students (where appropriate) with models or samples

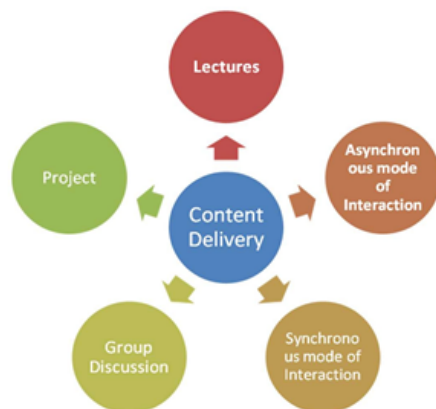
Step 6: The list of Websites that have to be referred for a specific topic are specified by the Faculty for student's reference and pursual.

Step 7: Students are given the Course Material for reference and also soft copy of the Notes is forwarded by the Faculty. The course material consists of the Lecture notes and Previous question papers. The material is also uploaded in the college website so that students can download and refer whenever required.

Step 8: Content Delivery



Content delivery Methods



1. LECTURES INTERSPERSED WITH DISCUSSION:

The class room lectures are interspersed with discussion. This method helps students to discuss their views and ideas with their peers and the faculty for clarifying any doubts, as well as for better understanding of the concepts. For the students to be aware of the topic for discussion in the class room, the department gives handbooks at the beginning of the semester where in the session plan of every subject is included which guides the student to follow day to day classes.

Effectiveness of the method for the attainment of the PO

Examples for each topic in the real world context are delivered which helps the students to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Each lecture is followed by a group discussion which helps the students to communicate effectively. Each class improves their knowledge of contemporary issues.

POs Attained: PO3, PO4, PO5, PO6, PO7, PO10, PO11, PO12

2. ASYNCHRONOUS MODE OF INTERACTION

In this mode of delivery there is no real-time interaction with the student.

Advantages of asynchronous interaction

Flexibility: information can be accessed at anytime from any place;

Time to reflect: learners can give a reply to the problems raised when they're comfortable with the topic;

Anonymity and pseudonymity: as the face-to-face interaction is lacking, the shyer learners feel less pressure and thus their contribution to the discussion might be of a better quality;

Situated learning: the learners can apply the theories from the studied course in their own working environment;

Cost-effective: all a learner needs is a computer and a decent internet connection.

Impact of asynchronous interaction

Learner-learner: quality of interaction improves due to the learner having enough time to process the topics and respond in a meaningful way ("higher order thinking skills occurring");

Learner-instructor: instructor can focus on the learner's needs;

Learner-content: learner has time to digest the contents; learner is able to access online notes (written by all course participants).

Examples of asynchronous interaction

CD-ROMs, - e-mail,- bulletin boards (online forums),- newsgroups (information is received via newsfeeds),- web pages, - computer conferencing, IRC – Internet Relay

Chat (chat rooms),- instant messaging,- - fax,- audiotape / videotape,- collaborative work spaces (information available to multiple users that can be added on or modified by the users themselves),- blogs (weblogs)

Among the above examples, we adopt CD-ROMs, e-mail, audiotape/videotape, blogs mode of asynchronous interaction. Course materials, expert lecture notes are given to students through CD-ROM. Video; audio lectures of experts are distributed to students, through which they can listen to lectures for better understanding of complex concepts more than once. The department faculty has their blogs in which they post the course material, assignments. E-mail helps both student and faculty to be in contact asynchronously for learning and instructing.

These modes help even a shy student, lack of effective oral communication student to contribute their views, present their assignments through sample applications designed by them and finally to clarify doubts, share and exchange their ideas with faculty. Through this mode they can be in contact with faculty even after the program and engage themselves in life- long learning.

Effectiveness of the method for the attainment of the PO

Queries and clarifications through this mode helps the students to design a system, component, or process to meet desired needs and apply the techniques, skills, modern tools to formulate, analyze and solve multi-disciplinary problems. This mode of interaction helps the students to improve their communication and professional ethics while responding through mails.

POs Attained: PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10

3.Synchronous interaction

This mode of interaction is delivered by having real-time interaction with the student.

Advantages of synchronous interaction

Stimulate motivation: via real-time interaction and ability to see and hear the classmates;

Interactive participation: step by step instructions can be given and followed in real time;

Immediate feedback: from both learners and instructor, thus allowing brainstorming of ideas, case-study analysis, debates and project work;

User-friendly technological tools for effective learning: only basic skills needed;

cost and time saving: no real venue for the class needed.

Examples of synchronous interaction

Real-time audio, - application sharing (learners can add, make changes or delete info on a shared software application),- voice and video conferencing,- share whiteboards and live presentation tools,- live assessment testing and voting,- audience control tools

Impact of synchronous interaction

Learner-learner: the larger the group, the less interactivity possible;

learner- instructor: only “lower thinking skills can be achieved” ;

learner-content: learners need to contribute and participate.

Among the above mentioned examples we adopt effectively black/green/white boards which is analogous to the Lecture interspersed with discussion listed above. We use live presentation tools like OHP and LCD projectors for effective interaction. This mode of interaction allows the faculty to collect immediate feedback and thus allowing for clarification, analysis of students ideas. Larger the group, lesser the interaction possible. To countermeasure this problem, we

adopt tutorials apart from regular lectures, where the number of student group is limited to have one – to –one interaction.

Effectiveness of the method for the attainment of the PO

Concepts for each topics with real time interaction through presentation modes helps the students to design a system, component, or process to desired needs within realistic constraints. Each lecture is followed by questioner session to collect feedback to analyze the level of attainment of PO.

PO Attained: PO2, PO3, PO5, PO6, PO7, PO10, PO11, PO12

4. Group discussion

Group Discussion is a process where exchange of ideas and opinions are debated upon. Adopting this method helps students to know what to do/remember and what not to do/remember in GD. For example they should be assertive but in a polite manner with expression in voice. Be calm but not quiet. Clarity in the thoughts, Appear pleasant with the other participating members. Be logical while answering or questioning anything. Adopting this method helps students to face personal interviews with more ease.

Effectiveness of the method for the attainment of the PO

Case studies can be discussed. Queries and answers through this mode help the students to analyze and interpret to meet the requirements. This mode of interaction helps the students to improve their communication and professional ethics during discussion.

PO Attained: PO5, PO6, PO7, PO11

5. Project:

Projects are often done in poster format, but faculty can also use their imagination to experiment with the form for content delivery.

Common characteristics of the projects

Hard work: Each project is the result of a lot of hard work. The authors of the projects have found information about their topic, collected or drawn pictures, written down their ideas, and then put all the parts together to form a coherent presentation.

Creativity: The projects are very creative in terms of both content and language. Each project is a unique piece of communication, created by the project writers themselves.

Personal: This element of creativity makes project work a very personal experience.

Adaptable: Project work is a highly adaptable methodology. It can be used at every level from absolute beginner to advance and with all ages.

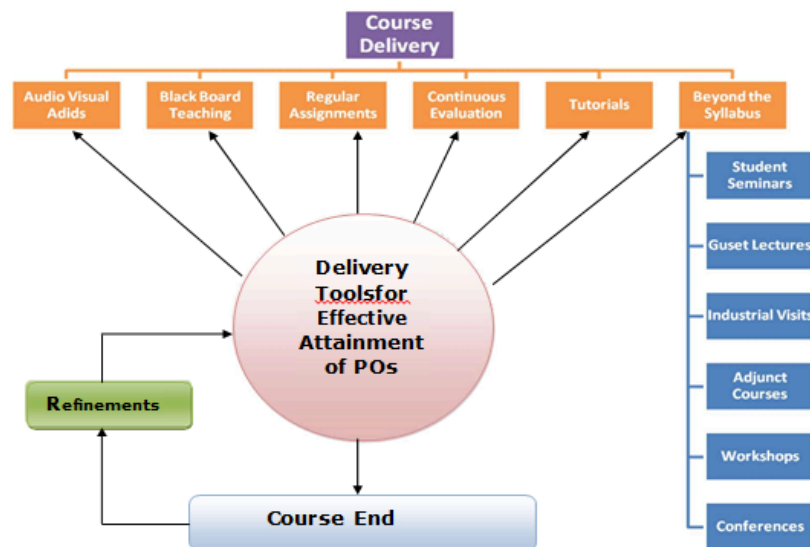
Effectiveness of the method for the attainment of the PO

Examples for complex topic in the real world context are delivered in the form of projects which helps the students to design a system, component, or process to meet desired needs within realistic constraints.

PO Attained: PO3, PO4, PO5

Modes of Content Delivery	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Lectures interspersed with Discussion			✓	✓	✓	✓	✓			✓	✓	✓
Asynchronous mode of Interaction		✓	✓	✓	✓	✓	✓	✓	✓	✓		
Synchronous Interaction		✓	✓		✓	✓	✓			✓	✓	✓
Group discussion					✓	✓	✓				✓	
Projects			✓	✓	✓							

Different course delivery methods / modes adopted in the department for delivery of courses for effective attainment of POs are shown below



1) Audio Visual Aids:

They are very powerful teaching tools. AV aids should be used to enhance the lecture by offering clarification of material in the lecture, and are particularly useful for students whose preferred learning style is visual. AV also stands for Added Value. So, AV aids help to attain POs effectively

2. Black board Teaching

The Blackboard Learning System allows instructors to post course information and course materials, readings and assignments and provides functionality for basic discussion and other collaborative tools (from Blackboard) which in turn help to attain the defined POs

Type of Black board	Quantity	Source of Availability
Glass board	01	Department Classrooms
Digital Board	02	Department Classrooms
White boards	15	Department Labs Seminar Halls Tutorial Rooms HOD Room Faculty rooms

3. Regular assignments

Assignments help the students to better understand, analyze and improve the presentation of the given topic in the concerned subjects. As per JNTU curriculum, assignments are a part of program curriculum as per R18 and R20 regulation. But right from the inception of the department, assignments are included in the program curriculum to improve the students' understanding capabilities which in turn help to attain the defined Pos.

4. Continuous Evaluation

Student's academic performance is to be evaluated continuously and update to the students and parents to put them in the right direction in order to achieve their goals and defined POs of the program. In this aspect, Continuous Evaluation is powerful tool to attain and define POs (Sample Continuous Evaluation Form is included in the Annexure)

5. Tutorials

As per JNTU curriculum, tutorials are a part of program curriculum. The main purpose of having tutorials for most of the core engineering subjects is to apply the concepts of the concerned subjects learned in the regular classes and able to solve complex engineering problems related to that subject. This shows effect on Course outcomes which in turn helps to attain the defined POs.

6. Beyond the syllabus

The outcome of any program is to mould and nurture the student who can be an all rounder in all aspects be a successful engineer. This is possible if few additional instruments are added to bring the best of every student inherent intellectual talents. The following is the co-curricular activities designed by the department to achieve the defined POs which in turn help to attain PEOs

- a. Student Seminars
- b. Guest Lectures
- c. Industrial Visits
- d. Adjunct courses
- e. Workshops
- f. Conferences

Student Seminars:

Seminars characteristically involve students and a member of the teaching staff. They provide an opportunity for active discussions on relevant topics. They make the students to develop transferable skills such as communication and team work. The topics on which the seminar is to be given will be intimated to the students well in advance and their performance will be evaluated and finally the best seminar from the class will be selected and a “**Certificate of Appreciation**” will be given which will be an added value to their career.

Guest Lectures:

In order to bridge the gap between the Institute and Industry, the department organizes Guest Lectures in every subject by eminent personalities who are in and around Hyderabad.

Faculty Development Program (FDPs):

S.No	Title of the FDP	Duration	No. of Participants
1	Five Day Faculty Development Program on Advances in Hydrogen Related Vehicles	18.10.21-23.10.21	42
2	One Week Short Term Training Program on AUTODESK	21.02.22-26.02.22	65
3	One Week Faculty Development program on Green Materials for Sustainable Manufacturing	17.10.22-22.10.22	48
4.	Five Day Faculty Development programme on Green Hydrogen Generation	20.02.23-25.02.23	42
5.	Faculty Development Programme On Artificial Intelligence Powered Industry 4.0	23.10.23-28.10.23	60
6.	Six Days Faculty Development Program on Exploring Green Technologies: Innovations, opportunities, and real-world challenges	20.02.24-25.02.24	51
7	One Week Faculty Development Program on Heat Ventilation and Air Condition	21.10.24-26.10.24	48

About the Department

The Department of Mechanical Engineering was established in the year 2011. The Department of Mechanical Engineering, MRCET is offering B.Tech in Mechanical Engineering and MTech- Machine Design. The department has a strength of 35 qualified and experienced faculty members with industrial and research backgrounds, out of which 10 are holding Doctorates from IITs, NITs and other Prestigious Institutes. Department of Mechanical Engineering is accredited by NBA (TIER-I). The Department has been sanctioned Rs. 30 lakhs for R & D projects under Research Promotion Scheme of AICTE. The department has published Eight Patents and Twelve are under process. Department has successfully organized six international conferences on Intelligent Manufacturing and Energy Sustainability (ICIMES) in association with Springer Nature. Further the department has been organizing Tech-Fest named YANTROTSAV every year and has also organized national level conferences named DISHA. Department has established several student forums/Chapters in various professional societies viz., SAE, IE, EWB and VIBHA. Also, the department has setup a Technology Business Incubator (TBI), providing assistance in business planning and training.

About the Programme

The use of renewable energy has increased due to the negative environmental effects of conventional fuels. Green technology, which uses renewable energy sources including solar, wind, bioenergy, hydro, geothermal, and ocean energy to provide electricity and heat, is environmentally beneficial. The major source of renewable energy has been used in houses and automobiles. When these resources are used effectively, operating expenses are reduced and the environment is preserved. The goal of this program is to present cutting-edge developments and trends in technologies related to energy extraction from a variety of renewable energy sources and energy-saving techniques. They could carry out further study on the latest topics including fuel cells, hydrogen energy, energy storage, etc. This Faculty Development Programme is aimed at providing an excellent platform for in-depth discussion and interaction on advanced techniques used by Green Energy Technologies. Since faculty members play a crucial role in determining students' futures, they constitute the foundation of any educational institution.

About the College

Malla Reddy College of Engineering and Technology (Autonomous) is approved by AICTE, New Delhi and affiliated to JNTU University, Hyderabad. MRCET is one of the premier Engineering Institute in INDIA, pioneer in Telangana State,

which is at Hyderabad. The college offers Nine UG, and Five PG programs and two Ph.D programme. The Institute has been Accredited by NBA-AICTE and NAA with 'A' Grade and is also recognized under UGC 2f & 12(B) Status. UGC has granted Autonomous Status from the Academic Year 2015-16 onwards. It has been standing as a temple of knowledge for the past 20 years by producing Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the world. The college is equipped with state-of-the-art laboratories for all the departments, full-fledged training & placement cell, Industry/Institution Interaction Cell etc. The college has been ranked 'AAA' Grade among India's Best Engineering colleges, Survey by Careers360 (Outlook Group). The College also ranked Fourth (5th) Among the Top Engineering Colleges of Excellence in Andhra Pradesh Competition Success Review (CSR). The department of MBA is endowed 9th Best B-School (Other than IIMs) in India. The college is an incubation center for MSME, Government of India

CHIEF PATRON

Sri Ch. Malla Reddy, Chairman of MRGI.

PATRONS

Sri. Ch. Mahender Reddy, Secretary, MRGI

Dr. Ch. Bhadrak Reddy, Treasurer, MRGI

CHAIR PERSONS

Dr. V.S.K Reddy, Director, MRCET

Dr. S. Srinivas Rao, Principal, MRCET

Dr. P.H.V. Sesha Talpa Sai, R&D Dean, MRCET

Dr. Potnuru Srikar, HOD, MRCET

COORDINATOR

Dr. D. Damodara Reddy,

Associate Professor,

Department of Mechanical Engineering, MRCET.

CO-COORDINATOR

Dr. Potnuru Srikar,

Professor

Department of Mechanical Engineering, MRCET

Six Days
Faculty Development Program

on

Exploring Green Technologies:
Innovations, Opportunities, and
Real-World Challenges

(Hybrid Mode)

20th to 25th February 2024



Organized by
Department of Mechanical Engineering



MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY

(UGC-AUTONOMOUS, Approved by AICTE &

Affiliated to JNTU, HYDERABAD)

Accredited by NBA, NAAC, ISO 9001:2015

www.mrcet.com



Objectives of the Programme

- To be familiar with cutting edge methods for using renewable energy in real world engineering challenges.
- To emphasize the value of energy conservation and to impart comprehensive knowledge of the practical instruments needed for energy audits.

Last Date for Registration: 20.01.2024

Date of the FDP: 20.02.2024 to 25.02.2024

Registration

Registration is mandatory for attending the FDP. The participants are requested to register in the through online/in person at the venue

Guidelines

- The FDP will be conducted in Hybrid mode.

The faculty members, Research scholars & PG Scholars of the AICTE approved institutions and Industry Personnel are eligible to participate in the programme.

- There will be 13 sessions in six days.
- The certificates shall be issued to those participants who are registered and attend the program with minimum 80% attendance and score minimum 70% marks in the test.

For further details

Dr. D. Damodara Reddy

Coordinator,
Associate Professor,
Malla Reddy College of Engineering and Technology,
Matsammaguda, Dhulapally,
Hyderabad, Telangana, India - 500100.
E-mail: damureddi@gmail.com
Mobile: +91-9492752032

**Resource Persons****Energy Harvesting from Vibrating Structures**

Dr. JAIN AR TONY B
Academic Head,
Department of Mechanical Engineering,
British University College,
Ajman, United Arab Emirates
Experience: 9 Years



Enhancement of Manufacturing Sector Performance with the Application of IIoT
Dr. Bikash Ranjan Moharana
Assistant Professor
Lae, Morobe,
Papua New Guinea
Experience: 8 Years



Energy Audit for Energy Conservation
Dr. M. Vivekanandan,
Chief Executive Officer,
TryCAE Industrial Eng. Pvt. Ltd.,
Tiruchirappalli.
Experience: 9 Years



Composite Materials for Energy Sustainability
Dr. C. Hari Venkateswara Rao
Joint Director,
MSQAA, C/o DRDL,
Kanchanbashi, Hyderabad
Experience: 23 Years



Global Application Development Engineer at Leybold
Dr. Kompella Sai Jyothseender
Engineer at Leybold
Bengaluru, Karnataka
Experience: 7 Years



Energy Absorption Materials in Automobiles
S. M. Kartheek Sontj, Lead Engineer
Mahindra and Mahindra Limited
Hyderabad, Telangana
Experience: 9 Years



Applications of Nanomaterials in Energy Sustainability
Dr. Joseph Berkman, Head
Graphene Technologies@ Reliance
Industries Limited
Chennai, Tamil Nadu, India
Experience: 13 Years



Green Energy Harvesting using high Entropy Thermoelectric Alloys
Dr. Vivekanandan Porselvan
Project Scientist,
Centre for Automotive Energy Materials,
Chennai, Tamil Nadu
Experience: 10 Years



3D Printing Pathways for Energy Sustainability
Dr. D. T. Sarathchandra
Design Engineer
Metal 3D Printing/ Additive Manufacturing,
Hyderabad, Telangana.
Experience: 10 Years



Time and Stress Management
Dr. A. Lavakumar
Assistant Professor,
IIT Ropar



A Renewable Solution for Converting Polluted Water to fresh Drinking Water using Solar Energy
Dr. Jose Immanuel R
Assistant Professor,
Department of Mechanical Engineering
IIT Bhilai, Kuttalbhata, Durg
Experience: 7 Years



Advanced Battery Thermal Management Systems for Fast-charging
Dr. R. Velraj
Professor, Institute for Energy Studies,
University, Chennai
Experience: 30 Years



Recent Advances and Trends in Structural Health Monitoring for Energy Sustainability
Dr. Vishesh Ranjan Kar
Assistant Professor, Mechanical Engineering
NIT Jamshedpur
Experience: 7 years

Industrial Visits:

It is important for the students to keep themselves abreast of changes taking place in the industry. To meet this end, department regularly organizes Industrial visits. Few of them are shown below

S.no	Name of the Industry/Organization
1	Diesel Loco Shed, Maulaali, Secunderabad, SCR, Hyderabad
2	Electric Loco Shed, Lallaguda, Secunderabad, SCR, Hyderabad
3	Carriage Work shop, Kharkhana, SCR, Hyderabad
4	T-Works, Gachibowli, Hyderabad.
5	ALEAP WE HUB, Gajularamaram, Hyderabad.

Workshops:

To make efficient engineers is our goal and academic endeavor. With conventionally syllabi having limited practical exposure, our value-added workshops offer students to enhance their skills and add to their knowledge base without having to seek training off-campus.

- Examinations are planned and announced before the commencement of the semester classes, evaluated answer scripts are returned within five days and week students are monitored and mentored. The same is informed to the parents. By this process the course outcome attainment is monitored and intern achieves the PO.
- Subject wise quizzes are organized and conducted among the students of the class.
- Laboratory exams, mini projects and main projects contribute to the assessment of practical skills which reflect the ability of students to implement ideas and techniques.

4. Reports, oral presentation and viva-voce contribute to the assessment of overall communication skills and dissemination of ideas.
5. These assessments are carried out periodically and hence allow the faculty members to monitor and provide attention to the students who may not be attaining the PO's to the required level.
6. This ensures that all students attain the minimum level of each programme outcomes.

S. No	Academic Year	Name of the event	Date
1	2024-2025	Expert talk on Motivational Session by Successful Start-Up Founder	07 th November 2024
2		Two Days Workshop on Machine Learning	1 st -2 November 2024
4		One Day Seminar Intellectual property rights and IP management for start up	03 rd May 2024
5		3 Days Workshop – Hands on workshop on drone technologies	26 th -28 th , March 2024
6		One Day Workshop on the future of work adopting to remote and flexible models	02 nd March 2024
7		Four Days Workshop on CATIA V5	29 th January- 13 th February 2024
8		Conducted One Day Workshop on Design Thinking, critical thinking and Innovation Design	24 th February 24
9		One Day Seminar on Customer Centric Business Building and Retain a loyal user base	13 th February 24
10		One Day Seminar Conducted on Pollution Control	05 th December 23
11		One day Workshop on Entrepreneurship and Innovation as Career Opportunity	09 th November 2023
12		Four Days Workshop on CATIA V5	29 th January- 13 th February 2024
13	2022-23	Two Days Hands on Workshop on Advance Mechatronics	20-21 DEC, 2022
14		One day Training on Gate	2 nd March 2023
15		Two Days Workshop on AUTOCAD	6 th -7 th March 2023
16		One Week Workshop on ANSYS	26 th June- 1 st July 2022
17		Three Days Workshop on AUTOCAD-I Years	31 st August- 2 nd September 2022
18	2021-22	Three Days Workshop on CATIA-III years	4-6 th September 2022
19		One Day Workshop on Fusion 360	9-10 th January
20		Workshop on Advanced AUTOCAD	23-29 th August
21		One Day Workshop on 3D Printing	6-7 th October

List of Technical Fest:

S.NO	Year	Name Of the Technical Event	Dates
1	2024	Smart India Hackathon-2024	06.09.2024
2	2023	Smart India Hackathon-2023	20.09.2023

List of Techno-Cultural Fest:

S.NO	Year	Name Of the Techno-Cultural Event	Dates
1	2024	YANTROSTAV-2k24	02 nd -3 rd February
2		GO- GREEN	28 th February
3		National Youth Day	12 th January
4	2023	YANTROTSAV-2k23	27 th -28 th January
5		INGENIUM- Engineers Day	16 th September
6		Rally for Rivers	15 th September
7	2022	YANTROTSAV-2k22	04 th -05 th March
8		INGENIUM- Engineers Day	16 th September

INNOVATIONS BY FACULTY IN TEACHING LEARNING PROCESS:

Innovations by the Faculty in teaching and learning implemented in the department are mentioned below:

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, instruction delivery, instructional methods, assessment, evaluation and inclusive class rooms that lead to effective, efficient and engaging instruction. Any contributions to teaching and learning should satisfy the following criteria:

- The work must be made available on Institute website
- The work must be available for peer review and critique
- The work must be reproducible and developed further by other scholars

The department/institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include statement of clear goals, adequate preparation, use of appropriate methods, and significance of results, effective presentation and reflective critique

Teaching Effectiveness can be brought by understanding the models of instructions that capture, delineate and transfer the knowledge from Faculty members to the learners. These involve a deep understanding of subject matter, planning, classroom instructional strategies, assessment of understanding of students and analysis of learning outcomes.

Traditional Teaching Method: In the pre-technology education context the teacher is the sender, the educational material is the information and the student is the receiver of the information. In terms of the delivery medium, the educator can deliver the message via the “chalk-and- talk” method and LCD projector transparencies. This learning perspective is a popular technique, which has been used for decades as an educational strategy in all institutions of learning. Basically, teacher controls the instructional process, the content is delivered to the entire class and the teacher tends to emphasize factual knowledge.

Innovative Methods of Learning:

Following innovative learning methods are initiated and implemented by the faculty for students to learn in a better manner.

1. Computer-assisted learning (Reference Globe)
2. Improvements in Laboratory Learning (Code Tantra)
3. Group Learning
4. Innovations in Assessment
5. Innovations in Evaluation
6. Advancements in Domain Experimentation
7. Google Classrooms
8. Weekend Activities
9. Snap Talk
10. Value added Courses

1.Computer-assisted learning: (Reference Globe)

ICT usages are abundantly practiced for the teaching-learning processes.

To provide direct access to quality instructional resources through computers

Objectives:

- To provide direct access to quality instructional resources through computers connected in LAN and Internet
- Motivate the students do electronic presentations (PPT)
- Assess the students through online quiz tests for better learning.

Facilities Created:

- Internet facility is provided to students for deeper inquiry into their subjects.
- The technologies are used even in the co-curricular activities during seminars, Workshops every classroom is provided with computer with LAN and internet connection.

Outcomes:

- The students and faculty are engaged in effective teaching and learning process.

2.Improvements in Laboratory Learning: (Code Tantra)

The laboratory learning is made very effective through the implementation of an innovative program namely Laboratory Improvement for Future. Under this program the faculty member handling the laboratory sessions shall prepare a manual with different activities.

Objectives:

- Conduction of advanced experiments.
- Collect research literature related to the lab Participate in the maintenance of the lab.
- Execute hobby projects. Modify the existing facilities in labs.
- To create awareness among the students and develop Industry –Institution interactions and reach the standards in laboratories.

Facilities Created:

- Modification of existing experimental set-up
- Creation of additional facilities for advanced experiments

Outcomes:

- Experience in collecting literature.
- Preparation of maintenance manual.
- Prepare working model/execute hobby project.

3.Group Learning OR Collaborative Learning:

A collection of students who are intellectually and aesthetically engaged in solving Problems, creating products, and an assemblage in which each student learns autonomously and through the ways of learning of others. By group, we refer both to the learning of individuals that is fostered by being in a group and to a more distributed kind of learning that does not reside inside the head of any one individual. Rather than focusing only on what the individual knows, the goal is to build a collective body of knowledge; learning groups strive to create publicly shared.

4.Innovations in Assessment:**Objectives:**

- Simplify the assessment of course outcomes and program outcomes.

- Take corrective actions during the middle of the semester for better attainment levels of course outcomes and program outcomes

Methodology:

Special Assessment software is designed and implemented to collect the attainment levels of course outcomes and program outcomes on frequent basis.

An assessment web link is provided to the students and faculty for giving feedback on the ongoing lecture sessions.

The student gives feedback on day to day basis about the ongoing subject-wise lecture sessions. This feedback will enable the faculty to know the effectiveness of his teaching on day to day lecture basis and helps to improve his performance. Alumni survey, Employer survey etc... are conducted through online.

Outcomes:

- Effective teaching and learning process
- Better attainment levels of course outcomes and program outcomes.

5.Innovations in Evaluation:

Generally, evaluation of students is done by the faculty. However, an innovative assignment evaluation method is proposed and implemented with the following objectives:

Objectives:

- To enhance the understanding levels of the subject.
- To improve the presentation skills

Methodology:

Self-Evaluation by the students is carried out under the faculty supervision. The students are divided into groups. Different home assignments are given to different student groups. One of the group members shall evaluate the remaining members' assignments and including himself. The evaluation within the group is carried out on rotation basis. The evaluated assignments are submitted to the faculty for scrutiny and feedback. The above method of evaluation helps the students in improving their learning and presentation skills.

6.Advancements in Domain Experimentation

Objectives: The Objective of this Concept is introduction of new experiments beyond course curriculum in day to day regular lab sessions.

Methodology: These Experiments are designed based upon the theory syllabus and student skills. At least One Experiment is introduced in each lab to train all the students in latest trends for laboratory improvement program which will be useful for the students to get awareness about the skills in conducting experiments.

Outcomes: Technical knowledge in labs is improved. Design hobby projects.

7.Google classroom

Google Classroom is an application designed to enhance the learning experience which is incorporated in our teaching learning process. It helps to interact with students 24X 7, by posting technical contents, notes, and assignments and also facilitates to conduct and evaluate online quizzes. The tools offer opportunities for collaboration in real time and the ability to work remotely.

8.Week end Activities

Co-curricular and extracurricular activities are conducted every weekend to motivate the students and to improve problem solving capabilities, leadership abilities in multidisciplinary, co-operation in team work, consciousness in professional ethics and administering critical situations. These activities include Webinar, Aptitude Training, Social Welfare Camp, Problem solving, Entrepreneurship Development Programs, Critical Thinking, Group Discussion, etc.

9.i-Talk

Students are motivated to present on a selective topic of their in a group/individual for 5-10 minutes during 2nd and 4th Saturday last hours for improving communication skills and to overcome stage fear.

10.Value Added Courses

Certification courses are conducted by department to give key knowledge to students in a specific field. It improves the employ-ability skills and promote professional and life oriented skills of the students.

11.Technical presentation

Students are encouraged to give presentation on any technical topic in their area of interest which will serve for knowledge transfer and to overcome stage fear. It will also improve their communication skills which is significant in their career growth.

LAB MANUALS:

The following faculty members have prepared the Lab Manuals as per the curriculum and are made available for the students.



S.No	Year	Regulation	Name of the Lab	Name of the Faculty	Displayed in Website
1	IV-1	R20	MECHANICAL MEASUREMENTS AND INSTRUMENTATION LAB	Mr. K. Bicha	Yes
2			COMPUTER AIDED DESIGN AND SIMULATION LAB	Mrs. S. Deepthi	Yes
3	III-I	R20	Computer Integrated Manufacturing Technology Lab	Dr. K. Chandra Sekhar	Yes
4			Thermal Engineering and Energy Resources Lab.	Dr. R. Hussainvali	Yes
5	III-II	R20	Artificial Intelligence & Machine Learning Lab	Mr. V. Gopal Krishna	Yes
6			HEAT TRANSFER LAB	Dr. Y. Dilip Kumar	Yes
7	II-I	R20	Fluid Mechanics & Hydraulic Machinery Lab	Mr. V. Gopal Krishna	Yes
8			Computer Aided Machine Design & Dynamics Lab	Mrs. B. Sandyarani	Yes
9	II-II	R20	Materials Testing & Manufacturing Processes lab	Mr. S. Vivekanandha	Yes
10			Data Structures using Python Lab	Mrs. B. Sandyarani	Yes

COURSE FILES:

I Semester:

Year	Regulation	Subject	Name of the Faculty	Displayed in Website
II-I	R-20	Engineering Mechanics	Dr. R. Hussianvali	Yes
		Engineering Thermodynamics	Dr. Y. Dileep Kumar	Yes
		Fluid Mechanics and Hydraulic Machinery	Dr. V. Gopala Krishna	Yes
		Metallurgy & Material Science	Dr. P. Srikar	Yes
		Computer Aided Machine Design	Dr. B. Sandhya rani	Yes
		Theory of Machines	Mr. Ch. Daksheeswara Reddy	Yes
III-I	R-20	Computer Integrated Manufacturing Technologies	Mr. S. Vivekanandha	Yes
		Thermal Engineering	Dr. D. Damodhara Reddy	Yes
		Managerial Economics & Financial Analysis	Dr. K. Chandra Sekhar	Yes
		Design of Machine Elements	Mr. Ch. Daksheewara Reddy	Yes
		Design of Hydraulic and Pneumatic Systems	Dr. Y. Dileep Kumar	Yes
		INTERNET OF THINGS & ITS APPLICATIONS	Mr. D. Mani Kumar	Yes
IV-I	R-20	CAD/CAM	Mrs. Indrāja Bhadrī	Yes
		Mechanical Measurements & Instrumentation	Mr. K. Bicha	Yes
		Finite Element Analysis	Dr. Y. Dileep Kumar	Yes
		Refrigeration & Air Conditioning	Mr. V. Gopal Krishna	Yes
		Production and Operations Management	Mrs. S. Deepthi	Yes

II Semester:

Year	Regulation	Subject	Name of the Faculty	Displayed in Website
II-II	R20	Applied Thermodynamics	Mr. V. Gopal Krishna	Yes
		Strength of Materials	Mr. D. Manikumar	Yes
		Data Structures using Python	Dr. B. Sandhyarani	Yes
		Manufacturing Processes	Dr. P. Srikar	Yes
		Probability and Statistics	Dr. Y. Dileep Kumar	Yes
		INTELLECTUAL PROPERTY RIGHTS	Dr. K. Chandra Sekhar	Yes
III-II	R20	Heat Transfer	Dr. R. Hussainyali	Yes
		Artificial Intelligence & Machine Learning	Mr. V. Gopal Krishna	Yes
		Design of Transmission Systems	Mr. C. Daksheewara Reddy	Yes
		Automobile Engineering	Dr. K. Chandra Sekhar	Yes
		DESIGN THINKING	Mr. D. Manikumar	Yes

UGC AUTONOMOUS SYLLABUS PREPARATION

The following faculty members have prepared the Syllabus for UGC Autonomous curriculum of R-20 regulations. The following faculty members have prepared the Course Files as per the curriculum and are made available for the students.

S.No	Year/Semester	Name of the Subject	Name of the Faculty
1	II B.Tech/I Semester	Engineering Mechanics	Dr. Y. Dilip Kumar Dr. R. Hussainvali
2		Engineering Thermodynamics	Mr. D Damodara Reddy Mr. Y Dilip Kumar
3		Fluid Mechanics and Hydraulic Machines	Mr. V. Gopala Krishna Dr. T. Sivakumar
4		Metallurgy and Material Science	Dr. P Srikar Ms. B. Sandhyarani
5		Computer Aided Machine Design	Ms. B. Sandhyarani Ms. S. Deepthi
6		Theory of Machines	Mr. C. Daksheewara Reddy P Haseena Bee
77		Fluid Mechanics and Hydraulic Machines Lab	Mr. V. Gopal Krishna Dr. T Sivakumar
8		Computer Aided Machine Design & Dynamics Lab	Ms. B. Sandhyarani Ms. S. Deepthi
9	II B.Tech/II Semester	Applied Thermodynamics	Mr. D Damodara Reddy Mr. Y Dilip Kumar
10		Strength of Materials	Mr. C. Daksheewara Reddy P Haseena Bee
11		Data Structures using Python	Dr. B. Sandhyarani Mr. V. Gopal Krishna
12		Manufacturing Processes	Dr. P Srikar Mr. S. Vivekanandha
13		Probability and Statistics	Mr. Y Dilip Kumar Mr. K. Bicha
15		Materials Testing & Manufacturing Processes lab	Dr. P Srikar Mr. S. Vivekanandha
16		Data Structures using Python Lab	Dr. B. Sandhyarani Mr. V. Gopal Krishna
17	III B.Tech/I Semester	Computer Integrated Manufacturing Technologies	Dr. P H V Sesa Talpa Sai Dr. P Srikar
18		Thermal Engineering	Dr. Y. Dilip Kumar Dr. R. Hussainvali
19		Managerial Economics & Financial Analysis	Dr. Y. Dilip Kumar Dr. P Srikar
20		Design of Machine	Mr. C. Daksheewara Reddy

		Elements	Dr. T. Lokeswara Rao
21		Design of Hydraulic and Pneumatic Systems	Dr. Y. Dilip Kumar Mr. V. Gopala Krishna
22		Computer Integrated Manufacturing Technology Lab.	Dr. P Srikar Mr. S. Vivekanandha
23		Heat Transfer	Dr. D. Damodhar Reddy Dr. R. Hussainvali
24		Artificial Intelligence & Machine Learning	Mr. V Gopal Krishna Dr. T. Lokeswara Rao
25		Design of Transmission Systems	Mr. C. Daksheewara Reddy Mrs. K. Navya Sri
26	III B.Tech/II Semester	Automobile Engineering	Dr. D. Damodhar Reddy Mr. S. Vivekanandha
27		Heat Transfer Lab	Dr. D. Damodhar Reddy Dr. R. Hussainvali
28		Artificial Intelligence & Machine Learning Lab	Mr. V Gopal Krishna Dr. T. Lokeswara Rao
29		CAD/CAM	Dr. B. Sandhyarani Mrs. Indira Bhadri
30		Mechanical Measurements & Instrumentation	Mr. K Bicha Mr. Jayavel
31		Finite Element Analysis	Mr. C. Daksheewara Reddy Dr. Y. Dilip Kumar
32	IV B.Tech/I Semester	Refrigeration & Air Conditioning	Mr. V. Venugopal Mr. K. Bicha
33		Maintenance and Safety Engineering	Mr. Jayavel Mr. K. Bicha
34		Mechanical Measurements & Instrumentation Lab	Mr. K Bicha Mr. Jayavel
35		Computer Aided Design and Simulation Lab	Dr. B. Sandhyarani Mrs. Indira Bhadri

5.7 Faculty as participants in Faculty development/training activities/STTPs (15)

Total Marks 15.00

Name of the faculty	Max 5 Per Faculty		
	2023-24(CAYm1)	2022-23(CAYm2)	2021-22(CAYm3)
Dr. P.H.V.S TALPA SAI	2.00	2.00	1.00
Dr. POTNURU SRIKAR	2.00	1.00	1.00
Dr.DESU DAMODARA REDDY	3.00	5.00	3.00
Dr. BORUKATI SANDHYA RANI	4.00	3.00	3.00
Dr. BORUKATI SANDHYA RANI	4.00	3.00	3.00
Dr.YANGALADASU DILIP KUMAR	5.00	4.00	2.00
Dr. CHANDHRA SEKHAR K	2.00	2.00	1.00
Dr. RAJAMMAGARI HUSSAIN VALI	2.00	2.00	2.00
Dr. JADAM THRINADH	3.00	4.00	2.00
Mr. KATRAVATH BICHA	5.00	3.00	3.00
Mr. CHAMALA DAKSHEESWARA REDDY	4.00	3.00	3.00
Mrs. S. DEEPTHI	2.00	2.00	2.00
Mr. S. SHAILESH BABU	1.00	1.00	1.00
Mr. VIVEKANANDA SOMA	4.00	4.00	2.00
Mr.VENNAM GOPALA KRISHNA	4.00	4.00	3.00
Mrs. INDRAJA BHADRI	2.00	2.00	2.00
Mrs. KASULA NAVYASRI	1.00	3.00	2.00
Mr. NARAYANA MURTHI CHANDRAGIRI	3.00	3.00	2.00
Dr. SRIDHAR AKARAPU	1.00	1.00	1.00

Mr. DOMMETI MANI KUMAR	3.00	3.00	1.00
Mr. SAI SRIKANTH VEMURI	2.00	3.00	2.00
Mr. SAI SRIKANTH VEMURI	2.00	3.00	2.00
Dr. M. MOHAMMED MOHAIDEEN	4.00	3.00	2.00
Dr. KRISHNA ANAND V G	1.00	1.00	1.00
Sum	66.00	65.00	47.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	9.00	13.00	21.00
Assessment [3*(Sum / 0.5RF)]	44.00	30.00	13.43

Average assessment over 3 years: 15.00

5.8 Research and Development (75)

Total Marks 75.00

RESEARCH PUBLICATIONS IN NATIONAL/INTERNATIONAL CONFERENCES & JOURNALS



S.no	Faculty	2021-22	2022-23	2023-24
1	Dr. P. Srikar	2	2	3
2	Dr. P.H.V.S Talpa Sai	10	8	8
3	Dr. B. Sandhya rani	3	2	4
4	Dr. D. Damodhara Reddy	3	4	4
5	Dr. T. Sivakumar	1	1	0
6	Dr. Y. Dileep kumar	2	1	3
7	Dr. T. Lokeswara Rao	0	2	0
8	Dr. K. Chandra Sekhar	2	3	1
9	Dr. R. Hussainyali	1	2	2
10	Dr. J. Trinadh			
11	Dr. K. Bicha	0	0	4
12	Mr. C. Dakheewara Reddy	0	0	0
13	Mrs. S. Deepthi	0	0	0
14	Mrs. S. Shailesh Babu	0	1	1
15	Mr. S. Vivekanandha	2	3	1
16	MR. V. Gopal Krishna	0	0	1
17	Mrs. Indrāja Bhadrī	0	0	0
18	Mrs. K. Navya sri	0	0	0
19	Mr. Ch. Narayana Murthy	0	0	2
20	Dr. A. Sridhar	1	1	1
21	Dr. B. Bhusan Reddy	0	0	0
22	Mr. D. Manikumar	0	1	1
23	Mr. V Sai Srikanth	1	3	1
24	Dr. M. Mohammed	1	4	5
25	Dr. Krishnanand	1	1	1

CITATIONS

Dr. P. Srikar

TITLE	CITATIONS	YEAR
<u>Dissimilar metal welding on Mg AZ31 and AA 6061 alloys by using friction stir welding</u> TR chary, S potnuru, RJ Immanuel, KK Saxena, D Buddhi, A Behera International Journal on Interactive Design and Manufacturing (IJIDeM) 17 (6 ...	10	2023
<u>Intelligent Manufacturing and Energy Sustainability Proceedings of ICIMES 2023</u> PHVST Sai, S Potnuru, M Aygar, VR Kar Proceedings of ICIMES, 1	1	2023
<u>Nickel-Titanium Smart Hybrid Materials: From Micro-to Nano-Structured Alloys for Emerging Applications</u> S Thomas, A Behera, TA Nguyen Elsevier	9	2022
<u>Constitutive modeling of NiTi-based shape memory alloys</u> DK Gara, S Potnuru, R Gujjala Nickel-Titanium Smart Hybrid Materials, 29-55		2022

TITLE	CITED BY	YEAR
<u>Performance enhancement by integrating concentrated inclined solar still for jagqery production</u> PV Sai, KS Reddy Energy 307, 132692		2024
<u>A study on mechanical properties of Kevlar and Kevlar/E-glass hybrid composites</u> PHV Sai, G Tulajannavar, G Kode, RV Arjun, A Bhaumik, MM Mohaideen AIP Conference Proceedings 3160 (1)		2024
<u>Experimental studies on airfoil trailing edge using aero acoustic technique</u> RA Shilfa, HR Viraktamath, SS Kulkarni, PHV Sai, MM Mohaideen, ... AIP Conference Proceedings 3160 (1)		2024
<u>The impact of hybridization on the mechanical characteristics of Kevlar49 and carbon-reinforced polymer composites</u> MM Mohaideen, NK Jagadish, A Patil, RK Pullanbhivadan, PHV Sai, ... AIP Conference Proceedings 3160 (1)		2024
<u>Design and analysis of a round ball shape projectile for an electromagnetic rail gun</u> PHV Sai, R Gin, RS Mirji, MS Krishna, AR Rajendran, A Bhaumik AIP Conference Proceedings 3160 (1)		2024
<u>Theoretical and experimental investigations of inclined solar still using secondary reflectors on east-west for enhanced distillate yield</u> PV Sai, KS Reddy Applied Thermal Engineering 236, 121836	9	2024
<u>Cardiovascular Disease Prediction Using Machine Learning</u> PHV Sessa Talpa Sai, MLR Chaitanya Lahari, CM Shagun, CA Vineeth, ... Proceedings of Eighth International Conference on Information System Design ...		2024
<u>CIFAR-10 Dataset Image Classification Using CNN</u> M Sucharitha, PHV Sessa Talpa Sai, S Vijayagovindan, F Razmin, ... Proceedings of Eighth International Conference on Information System Design ...		2024

TITLE	CITED BY	YEAR
<u>Prognostic modeling of polydisperse SiO₂/Aqueous glycerol nanofluids' thermophysical profile using an explainable artificial intelligence (XAI) approach</u> KV Sharma, PHVST Sai, P Sharma, PK Kanti, P Bhramara, S Akilu	20	2023
<u>Compressive and Shear Strength of Kevlar based Nano Composites</u> MM Mohaideena, PHVST Sai, RA Raj, VGK Anand, International Journal of Vehicle Structures & Systems 15 (3), 309-314	3	2023
<u>Design and Numerical Analysis of Electromagnetic Rail Gun for Defense Applications</u> RA Raj, PHV Sesa Talpa Sai, A Gurudutta, RVNS Prasad, AP Sharma, ... International Conference on Intelligent Manufacturing and Energy ...		2023
<u>An Effective Traffic Guidance and Support for Emergency Vehicles Using RFID Technology</u> PHV Sesa Talpa Sai, N Anand, A Viswajeeth, MS Nirmal Raj, R Ajith Raj, ... International Conference on Intelligent Manufacturing and Energy ...		2023
<u>Damage Identification on Aircraft Wing Using Convolutional Neural Network Based Pattern Recognition</u> M Sucharitha, PHV Sesa Talpa Sai, SK Thazha, M Thomas, B Hunagund, ... International Conference on Intelligent Manufacturing and Energy ...		2023
<u>Analysis of parallel flow heat exchanger using Cu nanofluids in the developing region</u> MLR Lahari, PHV Sai, KV Sharma, KS Swamy, PH Bee, S Devaraj AIP Conference Proceedings 2492 (1)		2023
<u>Fingerprint Based Biometric Voting Machine</u> MST Ahmed, KCT Swamy, K Vigna, TM SreeLakshmi, A Sathvika, P Sai MATERIAL SCIENCE 22 (04)		2023
<u>Effect of copper nano-cutting fluids in end milling of al 6061 and its influence on work piece morphology</u> PH Bee, PHVST Sai, S Devaraj, MLRC Lahari, KV Sharma, ... Materials Today: Proceedings	3	2023

TITLE	CITED BY	YEAR
<u>Experimental study on density and thermal conductivity properties of Indian coal fly ash water-based nanofluid</u> P Kanti, VS Korada, CG Ramachandra, PHV Sesa Talpa Sai International Journal of Ambient Energy 43 (1), 2557-2562	27	2022
<u>Analysis of Parallel Flow Double Pipe Heat Exchanger using GW70/Cu Nanofluids</u> MLR Lahari, VG Anand, PHV Sai BP International		2022

Publications for the Year 2022-2023



S.No	Name of the Faculty	Title of the Paper	Title of the Journal	Type of Publication
1.	D. Damodhara Reddy	PERFORMANCE OF DOUBLE PIPE HEAT EXCHANGER WITH DIFFERENT NANO FLUIDS	International Research Journal of Engineering and Technology	Journal
2.	D. Damodhara Reddy	MATHEMATICAL MODELLING ON IMPACT OF COMPRESSION AND EQUIVALENCE RATIO ON LEAN BURN SPARK COMBUSTION ENGINE BASED ON EXTENDED EXPANSION	IJCRT	Journal
3.	Dr. R HUSSAIN VALI	Development of a Pellet Rotation System for Automated Visual Inspection	Springer, ICIMES, 24	Book Chapter
4.	Dr. R. Hussainvali	Predicting the Strength Properties of LWC Using Response Surface	Springer, ICIMES, 24	Book Chapter
5.	D. Damodhara Reddy	Investigation on Waste Heat Recovery from the Condenser of Air Conditioning System	Recent Advances in Renewable Energy Sources - RARES2021	Conference
6.	D. Damodhara Reddy	Investigation Of Energy Recovery From Municipal Sewage Sludge: A Case Study Of Hyderabad	Challenges and Innovation in Engineering & Technology	Conference
7.	D. Damodhara Reddy	Combustion and Emission Characteristics of an ultra-lean burn Spark Ignition (SI) engine with liquified Natural Gas (LNG)	National Conference on Recent Advancement in Engineering and Technology NCRAET '22	Conference
8.	D. Damodhara Reddy	New Perspective of the History of India: Socio-Cultural, Geo-Political and Economical Aspects	One Day Blended National History Conference October, 2023	Conference

Publications for the Year 2021-22

S.No	Name of the Faculty	Title of the Paper	Title of the Journal	Type of Publication
1.	D. Damodhara Reddy	THERMODYNAMIC MODELING OF EXTENDED EXPANSION LEAN BURN SPARK IGNITION (EELBSI) ENGINE WORKING ON OTTO-ATKINSON CYCLE FUELED WITH NATURAL GAS	Vidyabharati International Interdisciplinary Research Journal	Journal
2.	Dr.R. Hussainvali	Optimization of variable compression ratio diesel engine fueled with Zinc oxide nanoparticles and biodiesel emulsion using response surface methodology	Fuel, vol 323, pg.no 124290	Journal
3.	Dr. R HUSSAIN VALI	The effect of mixed nano-additives on performance and emission characteristics of a diesel engine fuelled with diesel-ethanol blend	Materials Today: Proceedings Volume 43, Part 6, 2021, Pages 3842-3846	Journal
4.	VENNAM GOPALA KRISHNA	Performance Evaluation Of Bio-Ethanol With Diesel Blended Fuel Engine	SPECIALUSIS UGDYMAS / SPECIAL EDUCATION 2022 1 (43)	Journal
5.	VENNAM GOPALA KRISHNA	HELIANTHUS BIODIESEL BLENDED ETHANOL CONCENTRATION EFFECT IN A DIESEL ENGINE PERFORMANCE AND EMISSION STUDY	International Journal of Mechanical Engineering	Journal
6.	Dr.B. Sandhya Rani	Thermal and wear properties of <i>sansevieria trifasciata</i> green fiber "carbon fiber polymer hybrid composite	Material Research Express 8 (2021) 065604	Journal
7.	Dr. B. SANDHYA RANI	A SOLAR REFRIGERATION SYSTEM'S PERFORMANCE IMPROVEMENT FOR A VARIABLE THROAT EJECTOR	JOURNAL OF NORTHEASTERN UNIVERSITY, Volume 25 Issue 04, 2022, 813-825	Journal
8.	Dr. B. SANDHYA RANI	DEVELOPMENT, CHARACTERIZATION AND DURABILITY OF COMPOSITES	NOTION PRESS	Book Chapter
9.	Dr. B. SANDHYA RANI	STRUCTURAL BEHAVIOR OF AIRCRAFT WINGS EMBEDDED WITH GRAPHANE NANOPLATES	Journal of Engineering Sciences, Vol. 13 Issue 11, 2022, ISSN: 0377-9254	Journal

Other Conferences organized by the department:

Name of the Conference	Date & Year
3 rd International Conference on Emerging Trends in Mechanical Sciences - ICEMS 2K21	June 18-19, 2021
4 th International Conference on Emerging Trends in Mechanical Sciences - ICEMS 2k22	June 24-25, 2022
5 th International Conference on Intelligent Manufacturing and Energy Sustainability - ICIMES 2023	June 23-24, 2023

LIST OF BOOKS / BOOK CHAPTERS PUBLISHED

S.NO	Name of the Faculty	Title of the Book	Name of the Publisher	ISBN Number
1	Dr. P.H.V.S Talpa Sai	KINEMATICS OF MACHINERY	Tata McGraw Hill Publications	978-1-307-08-395-7-2017
2	Haseena Bee	KINEMATICS OF MACHINERY	Tata McGraw Hill Publications	978-1-307-08-395-7-2017
3	C. Daksheswara Reddy	KINEMATICS OF MACHINERY	Tata McGraw Hill Publications	978-1-307-08-395-7-2017
4	Desu Damodara Reddy	THERMODYNAMICS	Tata McGraw Hill Publications	978-1-307-08-395-7-2017

Ph.D. guided /Ph.D. awarded

S.NO	Research Guide	Name of the Scholar	Title of the Research	University & Year of Registration	Status
1	Dr. PHV Seshu Talpa Sai	MLR Chaitanya Lahari	Experimental Investigations On Heat Transfer Enhancement And Friction Factor Using Composite Nano-Fluids	Reva University &2017	Completed
2	Dr. PHV Seshu Talpa Sai	P. Haseena Bee	Investigation on Effect of Nano-Cutting Fluid in Machining Process and its Influence on Tool Life and Work Piece Morphology	Reva University &2018	On going
3	Dr. PHV Seshu Talpa Sai	Prasuna Lilly Florence	Resistance Spot Welding Process by Using Dissimilar Materials With Dissimilar Thicknesses for Industrial and Automobile Applications	Reva University &2018	On going
4	Dr. P. Srikar	Mr. Sai Satyanarayana	Manufacturing	Uttaranchal University 2018	On going
5	Dr. P. Srikar	Mr. Pramod 24216360002	Manufacturing	Uttaranchal University 2018	On going

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List of Faculty Members recently Ph.D awarded:

S.No	Name of the Faculty	Date of Receiving Degree	University
1	Dr. Y. Dilip Kumar	06.03.2024	JNTU Ananthapuram
2	Dr. D. Damodhar Reddy	31.08.2022	Sri Satya Sai University of Technology and Medical Sciences
3	Dr. S. Sandhya rani	28.09.2021	JNTU Ananthapuram
4	Dr. A. Sridhar	03.10.2024	Osmania University

List of faculty scholars pursuing Ph.D

S.NO	Faculty name	University	Date of registration
1	Mr. Katravath Bha	Osmania University, Hyderabad	September 2018
2	Mr. V. Sai Srikanth	Sathyabama University, Chennai	May 2018
3	Mrs. Ch. Deepthi	K.L. University, Vijayawada	July 2017

5.8.2 Sponsored Research (20)

Institute Marks : 20.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Design and Analysis of Low	2 Years	WRI	1050000.00
Design And Modification of	2 Years	Turbo Engineering Service	500000.00
Flow Analysis in UAV for M€	2 Years	ACCEL UAV PVT. LTD.	1500000.00
			Total Amount(X): 3050000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Modelling and Theoretical A	3 Years	Turbo Engineering Service	1205000.00
Design & Development of S	3 Years	Win Will Technologies	850000.00
Design Development and P	3 Years	Vsky Aerospace Technologi	1300000.00
			Total Amount(Y): 3355000.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Design and Fabrication of S	2 Years	MSME	850000.00
Design and Development of	2 Years	JDP Tool	850000.00
Improvement of Toughness	2 Years	Accro-Tech Scientific Indust	1300000.00
-	-	-	0.00
			Total Amount(Z): 3000000.00

Cumulative Amount(X + Y + Z) = 9405000.00

5.8.3 Development activities (15)

Institute Marks : 15.00

5.8.3.1 PRODUCT DEVELOPMENT

- Fabrication Of Motorized Four Way Hacksaw
- Go- Kart Vehicle
- Compressor Less Mini Refrigerator with Solar Energy.
- Solar Grass Cutter
- Design And Development of Vertical Axis Wind Turbine.
- Solar Powered Air Cooler
- Solar Powered Sprayer
- Seed Planting Machine
- Solar Power Tracking System Using LDRs
- Shock Absorber Based Power Generator
- Design and Analysis of Solar Hybrid Bike
- IOT Powered Robotic Systems
- Fabrication Of Vacuum Grain Collector
- Design And Fabrication of Pets Repeller
- Design And Fabrication of Air Purifier Using Water as Filter
- Power Generation Using Electro-Magnetic Suspension
- Bio Lamp
- Design And Manufacturing of Solar Powered Seed Sprayer Machine
- Design And Fabrication of Hoverbike
- Children Rescue from Borewell
- Disaster Management Using a Satellite Automation
- Design And Analysis of Supersonic Aircraft Wing
- Automatic Railway Gating System
- Design And Analysis of Load Lifting Mechanism Over Stair Cases
- Design And Fabrication of Plastic Waste Recycling Into 3d Printer Filament
- Design And Fabrication of Solar Powered Irrigation System
- Green Hydrogen Generation
- Design Development and Performance Evaluation of Thermoelectric Refrigeration
- Fabrication Of Regenerative Solar Electric Bicycle
- Design And Fabrication of Smart Helmet System
- Design And Fabrication of Two-Legged Robot Using Theo-Jansen Mechanism
- Fabrication Of Drone with Obstacle Avoidance Systems
- Seesaw Power Generation
- Design And Fabrication of Robot Car for Obstacle Avoidance
- Battery Thermal Management Systems for Electric Vehicles

5.5.8.2 Research Laboratories

Research Laboratories are established in the department to carry out Research Works, Consultancies, Major and Mini Projects. Considering the interdisciplinary nature of Automation and Robotics, a separate department helps in creating a complete ecosystem for Academics and Research at MRCET. The department will offer B.Tech, M.Tech. and plans to offer a variety of Research projects. The emergence of the department is the consequence of the heavy demand from the industry on robotics and IOT and the need to tackle the many fundamental and foundational research problems arising in a rapidly evolving field.

The Department of Mechanical has a sizable number of highly dedicated and dynamic Faculty members, with a wide variety of expertise.

The following research laboratories facilities are available in the department.

S.No	Name of the Laboratory
1	Centre for Innovation and Incubation.
2	Centre for Start-ups & Technology Business Incubator
3	Centre for Drone Technology
4	Research Project Laboratory

1. Research Projects Carried out in STARTUP & TECHNOLOGY BUSINESS INCUBATOR



S.No.	Name of the Project	Faculty Name	Duration	Status
1	DESIGN AND FABRICATION OF PLASTIC WASTE RECYCLING INTO 3D PRINTER FILMENT	Mr. C. Daksheswara Reddy	2023-24	Completed
2	FABRICATION OF 005 HOUSING OF KONKURS-M MISSILE	Mrs. K. Navya Sri	2023-24	Completed
3	AUTOMATIC RAILWAY GATING SYSTEM	Mrs. S. Deepthi	2023-24	Completed



2. CENTRE FOR STARTUP & TECHNOLOGY BUSINESS INCUBATOR RESEARCH INFRASTRUCTURE AND FACILITIES



S.No.	Name of the Equipment
1	3D Printer
2	Blow Moulding Machine
3	Plasma Welding/Cutting Machine
4	TIG Welding Machine
5	Metal Melting Furnace
6	Injection Molding Machine
7	Universal Sand Strength Machine
8	Mini CNC Router
9	CNC Turning machine
10	Evacuative Tube Solar Collector
11	Solar Flat Plate Collector
12	I-V Characteristics of Solar Panel
13	Bio-Diesel Mixer (Blender)
14	LPG Kit for SI Engine
15	Muffle Furnace
16	Electronic Metallurgical Microscope
17	Seismic Vibration Apparatus
18	Gyroscope couple
19	Universal Vibration Apparatus
20	FFT Analyzer
21	Electro Discharge Machine (EDM)
22	Wind Tunnel Blower



S.No	Facility Name	Details	Number	Reason(s) for creating facility
1.	3-D Printer	Build Size:100length x 150width x 200height Layer resolution: 100 microns Filament Type: Polylactic acid plastic File types: stl files only Software:	1	To carry Project & research work
2.	FTT ANALYSER	Power:0.25Hp Speed:3000rpm S 1 -Duty B -Class Current: 1.8AMP 180 VDC	1	To carry Project & research work
3.	ROBOTIC ARM	No of axis = 4 + Gripper; Wrist Rotate upgrade optional Distance (shoulder-to-elbow axis) = 5.75", Distance (elbow-to-wrist axis) = 7.375", Servo motion control = local closed loop Height (arm parked) = 7.25" Height (reaching up) = 19.00" Median forward reach = 10.25" Gripper opening = 1.25" Lift weight (arm extended) = approx. 13 oz Weight (without batteries) = 31 oz Range of motion per axis = 180 degrees Accuracy of motion per axis = Servo controller dependent (SSC32=.09 degrees) Servo voltage = 6 vdc	1	To carry Project & research work
4.	SEGWAY	Top Speed: 20kph Weight: 38kgs Width: Weight capacity: 118 kg Motors: 2HP electric motor Power: lithium-ion or NIMH batteries	1	To carry Project & research work

5	CNC MACHINE	Tool Area: 1500mmx1000m Tool: HSS Bit 30000rpm spindle with PID control Control System: RobotSpace Custom Controller with PID Control 3 Axis geared Stepper Motors with encoders Software: Meshcam + Linux CNC TB866 Stepper Controllers 1200W System Load Capacity: 500kg Speed: 5-20m/min Manual stop / start buttons	1	To carry B-Tech, M- Tech Projects & research work
6	MATLAB	Version 10.0		To carry B-Tech, M- Tech Projects & research work
7	LABVIEW	Lab view 2019		To carry B-Tech, M- Tech Projects & research work
8	SCADA	SCADA-Pro		To carry B-Tech, M- Tech Projects & research work

3. Centre for Drone Technology



The Centre for Drone Technology (CDT) is a strive to promote skilled human resources, improve participation and create a knowledge centre through group research involving all stakeholders surrounding State Agencies, Armed Forces, Research Groups, Educational Institutes, Private Parties and Communities of this region. The CDT plays a major role in enhancing industrial awareness among students and also provides placement opportunities in the same field, besides equipping them with valuable skills.

Vision:

To create a cutting-edge centre for analytics and research drones that fosters innovation, research, knowledge sharing, and support.

Mission:

In order to ensure the collection of airborne data of social and scientific interest for emergency situation resolution, monitoring, and mitigation, as well as to serve the social, economic, and political interests of the region and the nation, appropriate and efficient methods of knowledge and capacity building in the public domain through research, innovation, and training.

Technical Specifications:

Quadcopter with 8 kg/axis

Take-off weight – 32 kg

Payload- 10 kg

Battery – 22000 mAh LiPo

Charger- 1080 W Lipo Dual Charger

Use case- weapon dropping, courier transportation

Range- 10Km maximum, sealed to 1Km for now

Altitude: 1000mts maximum but locked to 30mts

Research Project laboratory

Research project lab facility is exclusively provided to the B.Tech, M.Tech and Research scholars to carry out their project works. This Laboratory is specially designed to suite projects being conducted under satellite/ remote mode.

A state-of-the-art computing centre equipped with high-end computer systems and broadband internet facility to mathematical modelling, analysis and simulations.

Domain specific faculty members and technical staff are available beyond working hours to support students for doing research work. The laboratory is equipped with educational tools to create interest and better understanding of existing research problems. Students are encouraged to do project work in domain wise with the support of the facilities available in the laboratories. Journals, technical magazines, Digital Library and reference books are equipped in this lab. MAT LAB Software with evaluation board and necessary hardware items are available in the laboratory to familiarize the students to do initiate their Research work.

Facilities:

S.no	Facility	Details
1	Board Room	A digital board room equipped high-end audio-visual presentations with the remote project guides. A/C, LCD Projector, White Board, PA Systems with Audio Video
2	Department Library	A/C, LCD Projector, White Board, PA Systems, Reference books, Journals, Technical magazines, Project Reports of previous batches.

Software's

Commercial Software	Similar Open source	Download Link	License
MATLAB	SCILAB	http://www.scilab.org/products/scilab/download	CaCILL
Microsoft Office	Open office	http://download.openoffice.org/	LGPL
Microsoft Office	LaTeX	http://www.latex-project.org/ftp.html	LPPL
Microsoft Windows	GNU/Linux	http://www.gnu.org/software/software.html	GPL
Turbo C	GCC	http://gcc.gnu.org/releases.html	GPL
Pro/E	BRL-CAD	http://brlcad.org/d/download	BSD
MS OFFICE Plotting tools	Xmgrace, XFIG, GNUPLOT	http://sourceforge.net/projects/graceplot http://xfig.org/art17.html http://www.gnuplot.info/download.html	BSD, GPL, Own license (but free)

5.8.3.2. Research Projects Carried out at Research Project Laboratory

S.No.	Name of the Project	Student Name	Guide	Duration	Status
1	Modelling of air conditioning	Eashwar	Dr. D. Damodara Reddy	2022-23	Completed
2	Design and analysis of fluid reciprocating air suspension system for motorcycle	Nitisha	Mrs. S. Deepthi	2022-23	Completed
3	Design and analysis of supersonic aircraft wing	K. Srikanth	Mrs. S. Deepthi	2022-23	Completed
4	Design and analysis of composite leaf spring	M. SIVA SAI	Dr. T. Lokeswara Rao	2023-24	Completed
5	Design and analysis of buggy chassis	K. Sujetha	Dr. P. Srikar	2023-24	Completed
6	Design and analysis of load lifting mechanism over stair cases	Bhukya Naveen	Mr. V. Gopala Krishna	2023-24	Completed

5.8.8.3 Instructional materials






S.NO	Name of the Laboratory	Instruction Materials
1	Engineering Workshop	Lab Manual, Tool charts & Demo videos on all Trades
2	Material Science	Lab Manual, Charts, Material Specimens, Image Analyzer software & Crystal Structure models
3	Fluid Mechanics And Hydraulic machines	Lab Manuals, Charts
4	Manufacturing Process	Lab Manuals, Charts
5	Thermal Engineering	Lab Manuals, Charts & Refrigeration data books
6	Machine Tools	Lab Manuals, Charts & Machinery Handbook
7	CAD/CAM	Lab Manuals for Modeling, analysis and CAM, Software demos & videos
8	Instrumentation and Control System	Lab Manuals, Charts
9	Heat Transfer Lab	Lab Manuals, Charts & Heat Transfer data books




5.8.8.4 WORKING MODELS/CHARTS/MONOGRAMS

MRCET Department Resource:

S.No	Facilities	Information Recourses
1	Department Website	Question Papers, Lab Manuals, E-book links, course handouts, academic calendars.
2	Language Lab	Vocabulary, phonetics etc.,
4	Lab Manuals	Available in Department Library
5	Question Bank for competitive exams	Available in Department Library
6	Various Solids-Models	Available in Department library
7.	Design Data Hand Books	Available in Department Library

MRCET LIBRARY e-Resource:

PUBLISHER	SUBJECTS	E-CONTENTS	URL/IP BASED MULTIUSER SERVICE
	Electrical Electronics Computer Science Telecommunication	174 E-Journals Back File To 2005 370,000 Articles	http://IEEEExplore.ieee.org IP based multiuser
	Mechanical Engineering	49 E-journals ASME's transaction journals from 1997 to the present.	URL: http://www.springer.com IP based multiuser
	Engineering Management Architecture	Journals Books Databases Thesis	URL: http://delnet.nic.in
	Engineering Management	11000+ NPTEL-Videos 500-Projects 1500+ Software Tutorial Videos 2500-Companies Information 2000+Universities Information	URL: http://mrcet.ac.in
	Social & Management Sciences (JSMS) Engineering & Technology (JET)	49,144 e-Journals Full Text Access	URL: http://www.igate.in IP based multiuser

PUBLISHER	SUBJECTS	E-CONTENTS	URL/IP BASED MULTIUSER SERVICE
	open access, peer-reviewed journals	11,413 Journals 7,093 searchable at Article level 136 Countries 2,222,621 Articles	URL: http://doaj.org/
	Free Education Online	Video Tutorials: 30741 Live Animations: 410 PowerPoint Presentations: 359	URL: http://www.learnerstv.com/
	Two-way HD Delivery Mechanism, and	e-Learning Solutions and Two- Way HD Delivery Mechanism	URL: www.jntuh-elsdm.in
	Engineering E-learning Courseware.	for Teachers & Students (elude)	
National Digital Library	General Engineering and Reference	Books, Article, Thesis, Manuscript, Audio & Video Lectures	URL: https://ndl.iitkgp.ac.in
	Teaching Learning Resources	Video lecture, Reading material- downloaded/Printed, Self-assessment tests and online discussion	URL: https://swayam.gov.in
	Group of 32 DTH channels devoted to telecasting of high-quality educational programmes on 24x7 basis using the GSAT-15 satellite. Every day.	Video lectures and Material	URL: https://www.swayamprabha.gov.in

5.8.4 Consultancy (from Industry) (20)

Institute Marks : 20.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Structural and :	1 Year	Numel Solutior	500000.00
			Total Amount(X): 500000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
A ROBOTICS-I	1 Year	SAK INFORM/	500000.00
IOT Powered F	1 Year	Posh Technolo	300000.00
			Total Amount(Y): 800000.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Testing and Characterizatio	1 Year	JDP TOOL	550000.00
Hardness and Strength Mea	1 Year	Win Will Techn	705000.00
			Total Amount(Z): 1255000.00

Cumulative Amount(X + Y + Z) = 2555000.00

5.9 Faculty Performance Appraisal and Development System (FPADS) (10)

Total Marks 10.00

We believe in the premise that people are more productive when they agree on what is expected of them and receive feedback on their performance. The success of the appraisal process is essentially associated with establishing a constructive dialogue between the appraisers and appraised. This can be a valuable process for both the department/college and faculty as it improves communication channels between both sides.

This aims at helping faculty get a clearer idea of their expected important roles in the department/College and University, given that academic staff members are the essence of the education system. Ultimately it is the caliber and standards of the faculty members that have the most influence on the education process. Planning is part of the process of assisting faculty members improve such standards.

According to College By-laws, Faculty members are expected to:

- Provide up-to-date reports involving teaching activities and student advising as assigned by the department.
- Be responsible for course development and participate in curriculum and program development.
- Fulfill all instructional and advising responsibilities as specified in the policies and procedures.
- Participate in scholarly and research activities which enhance their professional development and contribute to their discipline.
- Serve as appropriate in, the department and college committees.
- Provide professional services to the Department, College and community.

In addition, criterion 5 of ABET (Accreditation Board for Engineering and Technology), the accreditation body for engineering programs, focuses on faculty members. It states that

"The faculty is the heart of any educational program. The faculty must be of sufficient number; and must have the competencies to cover all of the curricular areas of the program. There must be sufficient faculty to accommodate adequate levels of student-faculty interaction, student advising and counseling, university service activities, professional development, and interactions with industrial and professional practitioners, as well as employers of students.

The program faculty must have appropriate qualifications and must have and demonstrate sufficient authority to ensure the proper guidance of the program and to develop and implement processes for the evaluation, assessment, and continuing improvement of the program, its educational objectives and outcomes. The overall competence of the faculty may be judged by such factors as education, diversity of backgrounds, engineering experience, teaching experience, ability to communicate, enthusiasm for developing more effective programs, level of scholarship, participation in professional societies, and licensure as Professional Engineers."

MRCET Faculty Self Performance Appraisal System:

1.Rationale:

The College decided to develop a customized version of appraisal system. The rationale behind this move is:

1. Embedding the "professional" nature of the college in the system (linking courses to industry, design, and real world problems).
2. Targeting a simpler but more effective and relevant evaluation system.
3. Having a clearer link to the development system for faculty members which are one of the main aims of the evaluation system. Based on the department need, there should be a mutual agreement between the head and the faculty member on whether to continue developing their strength areas, or to focus on their weak areas or a combination of both.
4. Determining the intellectual value added by each faculty member.
5. Capitalizing on the role of different ranked faculty members in the education process.

2.General Objectives

The evaluation system has the following main aims:

1. Helping faculty members recognize areas in need of development or improvement, and to capitalize on their areas of strength.
2. Building a database that can be used for promotion applications.
3. Helping the college set a program for faculty development.
4. Creating a fair indication for annual merit increases and other rewards programs to be developed.
5. Provide opportunities for discussion and feedback in order to identify problems, obstacles, or difficulties that hinder progress and institution development.

3.General Guidelines

The evaluation system should be applied to all "regular faculty members" defined in the bylaws as:

"Regular faculty members are full-time individuals who hold full professional ranks and who are appointed by the College and ratified by the University to fulfill the following functions and duties:

- Teaching and scholarly endeavors
- Program and course development
- Student advisement
- College, Department and community services
- Other functions and duties deemed necessary by the Department and College"

This process is conducted annually (at the end of the academic year) and the outcome of the evaluation is kept confidential and is by no means a way to compare one faculty member against another.

4.Responsibilities and Evaluation

Conducting the departmental evaluation is the sole responsibility of the department head, and should not be delegated to any other member of the department. However, the head can seek help from other faculty members to conduct specific tasks in the evaluation process.

After the departmental evaluation, the Dean for Academics and Principal will review it and send recommendation to the department head.

The College Evaluation system defines the evaluation areas to be:

- Teaching and instruction
- Scholarship and research
- College, Department and community service

Procedures

- i. During the first two weeks of the odd semester, each department head will hold a department meeting during which the following will be addressed:
- ii. Refresh the team with the mission and vision of the department.
- iii. Update on the status of implementation of the department academic plan and advisory committee recommendations.
- iv. Agree on the annual plan for the department.
- v. During the following week, the head will hold an individual meeting with each department faculty member. During this meeting, they discuss the individual plan of the member in terms of teaching, research, and services, as well as the College and Department strategic plans. The development plan of the member should then be addressed, and required resources should be agreed upon. The plan will include agreement on special distribution of effort over the three evaluation areas (i.e., teaching, research, and service).
- vi. Within two days of the meeting, the member should submit hard/soft copy of his/her plan for the year.
- vii. The head will then confirm that the plan is in line with the discussion agreement in the meeting.
- viii. A follow up meeting will be held whenever needed.
- ix. Faculty members will submit their achievements and any supporting document in the prescribed faculty appraisal form. This task is due on the last day of teaching.
- x. Head of the Department hold appraisal meetings with faculty members in the department to go over achievements and to provide feedback.
- xi. Faculty members are required to sign the summary sheet for evaluation which is an indication that they have seen the scores.
- xii. Faculty member signature on the form doesn't necessarily mean that the member agrees with the result.
- xiii. Any appeal on the evaluation results should be submitted within two weeks of the meeting to the department head.
- xiv. Head of the Department will submit the evaluation summary of faculty members to the Principal through Dean of Academics by the end of the final exams period.

Evaluation Components

1.Teaching (50-60%)

1.1 General Guidelines

- i. Each faculty member will submit course files for *all* taught courses that include all course materials together with samples of students work. Each faculty member will pick one course file for evaluation.
- ii. The average student feedback score will be used in the evaluation and not a certain course feedback.
- iii. Course improvement may involve adopting new teaching pedagogies, new assessment methods, new technology or software, new applications related to local industry, converting a course to be an online course, or combinations of these.
- iv. All courses will be managed using Blackboard to achieve the minimum score of "satisfactory".
- v. For faculty with reduced loads or with buyout time, teaching weight can be reduced to 40%.

1.2 Evaluation Rubric:

5: Excellent student evaluation (greater than 92%), outstanding course file(s), substantial improvement in a course or introduction of a new course, and an excellent effort for self- improvement through attending workshops. Examples of excellent performance indicators include winning teaching prizes, writing a journal paper in the area of teaching, delivering presentations, conferences and demonstrating exceptional skills in teaching/learning.

Revised – 4: Very good student evaluation (greater than 85%), very good course file(s), good improvement in a course, and an obvious effort for self-improvement through participating in workshops, delivering presentations, conferences.

4: Very good student evaluation (greater than 85%), very good course file(s), good improvement in a course, and an obvious effort for self-improvement through participating in workshops, delivering presentations, conferences.

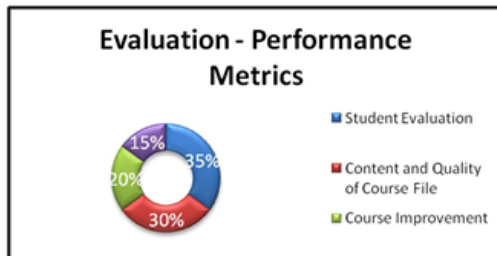
3: Good student evaluation (greater than 75%), a good and complete course file(s), some improvement in a course, and a reasonable effort for self-improvement through attending workshops, presentations, conferences

2: Fair student evaluation (greater than 60%), course file is not complete, no course improvement, and no evidence of self-development.

1: Poor student evaluation (< 60%). No course file. Faculty member will be given a warning and further action may be considered.

Performance Metrics:

- Student Evaluation: 35%
- Content and Quality of Course File: 30%
- Course Improvement: 20%
- Self-Development: 15%



2. Research & Scholarship (20-40%)

2.1 General Guidelines

- i. Each faculty member will include his/her recent publication record (past 2 years included) for the head to check the progress.
- ii. Senior faculty members are expected to publish in international well reputed, indexed journals with high impact factor in its field.
- iii. Research in priority areas of the department will have a higher weight.

- iv. Collaborative research is highly recommended.
- v. Research funding and intellectual property generation will be counted.
- vi. A leading author is the author whose name appears as a single or first author on a jointly published paper, or the second author on a paper whose first author is a graduate student or a postdoc supervised by the second author.

2.2. Evaluation Rubric

5: A leading author on at least three papers in significant indexed journals over the past two years, receiving (or managing) a significant external grant as a lead PI in the current year which is in line with departments goals/areas of interest, and solid efforts in research development..

4: A leading author on at least two papers in significant indexed journals over the past two years, or receiving an external grant as a lead PI in the current year which is in line with departments goals/areas of interest, or receiving a patent, and a very good effort in research development in the department.

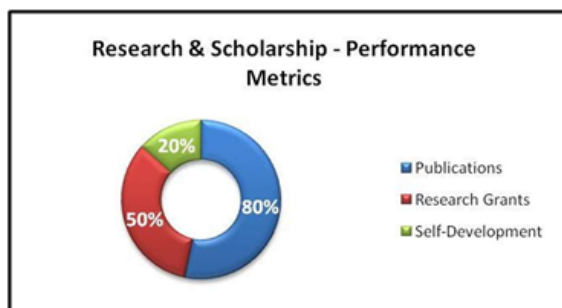
3: Publishing one paper in significant indexed journals over the past two years, or a leading author on at least two papers in an international and significant conference over the past two years, receiving research grants in the role of PI or Co-PI with good effort in research development.

2: No journal or conference publications in the past two years with little efforts to improve research capabilities.

1: No publications at all over the past three years with no effort to improve research capabilities.

2.3 Performance Metrics:

- Publications: 30-80%
- Research Grants: 0-50%
- Self-Development: 20%



3.Services and Personal Development (10-30%)

3.1 General Guidelines:

- i. It is the role of the head to capitalize on the strength of each member of the department by nominating them to different college, and department committees or assigning them other special duties such as coordination.
- ii. Faculty members involved in services outside college should keep the head informed about their activities and their exact roles and contributions.
- iii. All faculty members are expected to be members of professional societies both local and international. Every effort must be deployed to achieve this target.
- iv. All faculty members are expected to engage in the implementation of the college and department strategic plan by being involved in relevant projects or tasks.
- v. All faculty members are expected to engage in their personal development in one or several of the areas of teaching, research or community service so as to improve in any area of perceived weakness or in areas where the faculty wants to go from an excellent assessment to an outstanding assessment.
- vi. Services are expected to be delivered to the department, college and the profession through all available venues.

3.2. Evaluation Rubric

5: Exceptional contribution to and/or impact on a department/college committee, an active/leading role in supporting technical publications (journals, conferences), giving at least one seminar a year, exceptional student advising, providing consulting services, and outstanding self-development efforts. An excellent attitude and high level of collegiality.

4: Effective contribution to internal committees, active support of professional organizations, good and effective student advising, and clear self-development efforts. Very good attitude and collegiality.

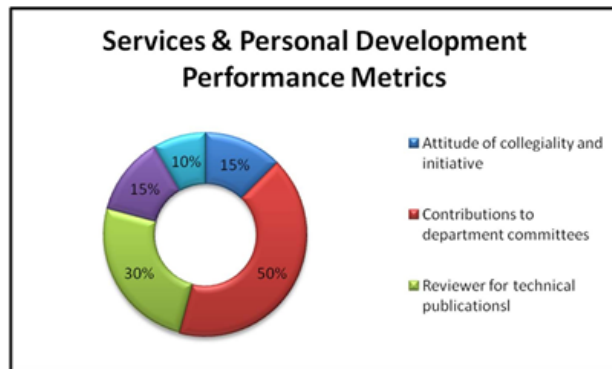
3: Acceptable contribution to internal committees, basic contribution to student advising, occasional support of professional organizations, and minimum self-development efforts. Good attitude and collegiality.

2: Contribution to committees is attendance at most, weak student advising, no involvement in professional societies, and no sign of self-development.

1: No involvement in department, college or university services/activities, no student advising, and no evidence of personal development. The faculty member will get a warning and further action may be taken.

3.3 Performance Metrics:

- Attitude of collegiality and initiative (15%)
- Contributions to department/college committees-(30-50%)
- External committees/consulting, journal editorial duties or membership in conference TPC (technical program committees), reviewer for technical publications; external service: (10- 30%)
- Student advising: 15% (if applicable)
- Self-development, seminars/courses, etc. (10%)



The format of College Faculty Self Performance Appraisal Report is shown below:



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
 Maisammguda, Dhulapally Post, Secunderabad 500 100
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
FACULTY PERFORMANCE APPRAISAL (Academic Year -2024-25)

Department :
 Name :
 Designation :
 Qualification :
 Date of Joining :
 Teaching experience in MRCET :
 Total Teaching experience :

I. STUDENT FEED BACK OF PREVIOUS TWO SEMESTERS (30%):

Previous Semester I:

Theory Subjects (70%) :

S.No.	Name of the subject	Course	Branch	Year	Semester	Feedback Percentage
1						
2						
3						
4						
Average percentage of feedback :						

Laboratories (30%) :

S.No.	Name of the Lab	Course	Branch	Year	Semester	Feedback Percentage
1						
2						
3						
4						
Average percentage of feedback :						

Previous Semester II:-

Theory Subjects (70%) :

S.No.	Name of the subject	Course	Branch	Year	Semester	Feedback Percentage
1						
2						
3						
4						
Average percentage of feedback :						

Laboratories (30%) :

S.No.	Name of the Lab	Course	Branch	Year	Semester	Feedback Percentage
1						
2						
3						
4						
Average percentage of feedback :						

II. PASS PERCENTAGE OF PREVIOUS TWO SEMESTERS (30%)**Previous Semester I:-**

Theory Subjects:

S.No.	Name of the subject	Course	Branch	Year	Semester	Percentage of pass
1						
2						
3						
4						
Average pass percentage:						

Previous Semester II:-

Theory Subjects:

S.No.	Name of the subject	Course	Branch	Year	Semester	Percentage of pass
1						
2						
3						
4						
Average pass percentage:						

III. HOD FEEDBACK (30%- Each one carries 5%)

1. Punctuality to the class work and usage of ICT tools:
2. Proper leave communication & alternative arrangement during leave period:
3. Participation in accreditation work (NBA/NAAC/Others) & general administrative work of Dept. :
4. Publications :
5. Workshops/Seminars /Guest Lectures/Organized/Attended :
6. MOOCs/NPTEL/Certifications :
7. Research/External agency Funding (For Ph.D. Faculty) :

IV PRINCIPAL'S FEEDBACK (10%)

- Total:
- I. Students Feedback :
 - II. Pass Percentage :
 - III. HOD Feedback :
 - IV. Principal's Feedback :

SIGNATURE OF FACULTY

SIGNATURE OF HOD

SIGNATURE OF PRINCIPAL

4. Student Feedback

The format of the Feedback form is shown below.

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY										
STUDENTS FEEDBACK FOR THE ACADEMIC YEAR 2024-2025										
B.TECH YEAR - Branch: SECTION:										
Appeal to the students - your valuable feedback about the course will be of great help to the department to enhance the quality of teaching & learning process. kindly give your rating for all the items listed for the subjects mentioned. The rating is with respect to 5 point scale as given below.										
5 - Excellent		4 - Very Good		3 - Good		2 - Satisfactory		1 - Below Average		
S.No.	Subjects	Faculty Name	Subject Knowledge	Lecture Material/Notes	Presentation Skills	Students Motivation	Command over the Class	Regularity / Punctuality	Assignment / Question Answer Sessions	Overall Rating
1										
2										
3										
4										
5										
6										
7										
8										

After taking the feedback from the students, the score given by the students is consolidated and analysis is done for every faculty of the concerned subject.

S.No	Rating	Score
1	Excellent	5
2	Very Good	4
3	Good	3
4	Satisfactory	2
5	Below Average	1

Once the analysis is ready, Principal, Dean of Academics and Head of the Department inform to each individual faculty and corrective measures are taken for the subjects where the feedback is less.

The feedback and analysis for the past Academic Years is given below.

We believe in the premise that people are more productive when they agree on what is expected of them and receive feedback on their performance. The success of the appraisal process is essentially associated with establishing a constructive dialogue between the appraisers and appraised. This can be a valuable process for both the department/college and faculty as it improves communication channels between both sides.

This aims at helping faculty get a clearer idea of their expected important roles in the department/College and University, given that academic staff members are the essence of the education system. Ultimately it is the caliber and standards of the faculty members that have

the most influence on the education process. Planning is part of the process of assisting faculty members improve such standards.

According to College Bylaws, Faculty members are expected to:

- Provide up-to-date reports involving teaching activities and student advising as assigned by the department.
- Be responsible for course development and participate in curriculum and program development.
- Fulfill all instructional and advising responsibilities as specified in the policies and procedures.
- Participate in scholarly and research activities which enhance their professional development and contribute to their discipline.
- Serve as appropriate in, the department and college committees.
- Provide professional services to the Department, College and community.

In addition, criterion 5 of ABET (Accreditation Board for Engineering and Technology), the accreditation body for engineering programs, focuses on faculty members. It states that

"The faculty is the heart of any educational program. The faculty must be of sufficient number; and must have the competencies to cover all of the curricular areas of the program. There must be sufficient faculty to accommodate adequate levels of student-faculty interaction, student advising and counseling, university service activities, professional development, and interactions with industrial and professional practitioners, as well as employers of students.

The program faculty must have appropriate qualifications and must have and demonstrate sufficient authority to ensure the proper guidance of the program and to develop and implement processes for the evaluation, assessment, and continuing improvement of the program, its educational objectives and outcomes. The overall competence of the faculty may be judged by such factors as education, diversity of backgrounds, engineering experience, teaching experience, ability to communicate, enthusiasm for developing more effective programs, level of scholarship, participation in professional societies, and licensure as Professional Engineers."

Indices used for measuring the quality of teaching are as follows:

The feedback analysis for the academic year 2024-25 I Semester is shown below:



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

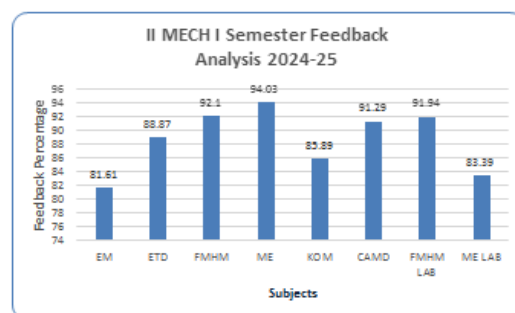
Maisammaguda, Dhulapally Post, Secunderabad 500 100

DEPARTMENT OF MECHANICAL ENGINEERING

II – I SEMESTER FEED BACK ANALYSIS 2024-25

II MECH

S.No	Subject	Name of the Faculty	Feedback obtained (%)
1	EM	MR CH NARAYANA MURTHY	81.61
2	ETD	DR D DAMODARA REDDY	88.87
3	FMHM	Y DILIP KUMAR	92.10
4	ME	DR P SRIKAR	94.03
5	KOM	K NAVYASRI	85.89
6	CAMD	DR B SANDHYA RANI	91.29
7	FMHM LAB	Y DILIP KUMAR	91.94
8	ME LAB	DR K CHANDRA SEKHAR	83.39

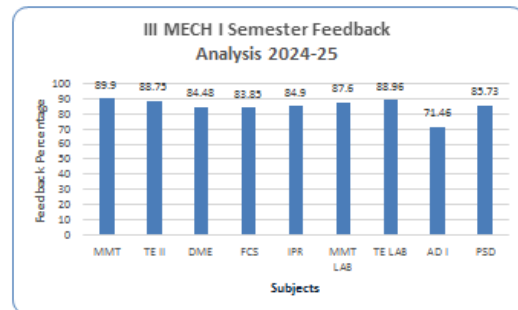



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

Maisammaguda, Dhulapally Post, Secunderabad 500 100

DEPARTMENT MECHANICAL ENGINEERING
III – I SEMESTER FEED BACK ANALYSIS 2024-25
III MECH

S.No	Subject	Name of the Faculty	Feedback obtained(%)
1	MMT	MR CH DAKSHEESWARA REDDY	89.90
2	TE II	DR HUSSAIN VALI	88.75
3	DME	MR D MANI KUMAR	84.48
4	FCS	MR S VIVEKANANDA	83.85
5	IPR	DR D DAMODARA REDDY	84.90
6	MMT LAB	MR C DAKSHEESWARA REDDY	87.60
7	TE LAB	DR HUSSAIN VALI/MR V GOPALA KRISHNA	88.96
8	AD I	DR T LOKESWARA RAO	71.46
9	PSD	MS S SWAPNA	85.73

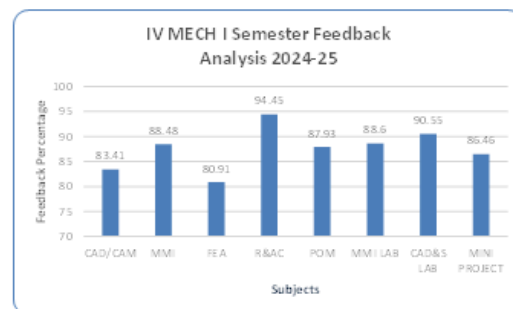



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

Maisamysuda, Dhulapally Post, Secunderabad 500 100

DEPARTMENT OF MECHANICAL ENGINEERING
IV – I SEMESTER FEED BACK ANALYSIS 2024-25
IV MECH

S.No	Subject	Name of the Faculty	Feedback obtained (%)
1	CAD/CAM	MS INDRAJA BHADRI	83.41
2	MMI	MR K BICHA	88.48
3	FEA	DR Y DILIP KUMAR	80.91
4	R&AC	MR V GOPALAKRISHNA	94.45
5	POM	MSS DEEPTHI	87.93
6	MMI LAB	MR K BICHA/MR V SAI SRIKANTH	88.60
7	CAD&S LAB	MS S DEEPTHI/ MS INDRAJA BHADRI	90.55
8	MINI PROJECT	DR Y DILIP KUMAR/ DR HUSSAIN VALI	86.46


5. Basis of reward/corrective measures, if any: System of Reward:

- Best faculty award is given based on student's feedback, HOD's evaluation, the faculty's self-appraisal report and the marks given by Faculty appraisal committee, headed by Principal. The increments and promotions are also bearing some effect on these scores.
- Level of feedback is taken into account while evaluating the staff for promotion. Performance rating of faculty through student feedback system is one of the factors in evaluating the annual performance of the faculty.
- Based on the annual performance of the faculty the annual increments are released.

Corrective Measures:

- The faculties performing below average are asked for written explanation and counseled to improve their performance in future.
- Senior faculty attends the class of the concerned teacher and the mode of improvement in teaching is suggested.
- Those teachers who have not obtained good appraisals have a detailed discussion with the HOD on how to improve the teaching. Both study the metrics where the teacher has failed to impress the students and steps charted out, for improvement.
- If the subject is new, concerned teachers are deputed for training.
- Faculty development program is conducted regularly for all teachers who are new to the profession



5.10 Visiting/Adjunct/Emeritus Faculty etc. (10)

Total Marks 10.00

The following are the list of Subject experts visiting our institute for the past 3 academic years. The visit is arranged once/twice in a semester in the form of expert guest lectures and the student is allowed to interact with the industry experts. The main aim is to expose the latest technologies being used in the industry.

S.No	Academic Year	Name of the Expert	Industry/ Organization	Subject for which services are utilized	Teaching Hours
1	2021-22	Bharat C Maharaj	Pratt and Whitney Hyderabad	Production Planning and Management	50
		Janardhan Hunusnoble	MOOG India Technology Bengaluru	Hydraulics and Pneumatics systems	50
		Mr. Prasada Rao	Managing Director Winwill Technologies, Hyderabad	Design to Manufacturing	50
2	2022-23	Hari Adavalli	CYIENT Limited Hyderabad	Integration of Design & Manufacturing	50
		Bharat C Maharaj	Pratt and Whitney Hyderabad	Manufacturing Systems	50
		Mr. Prasada Rao	Managing Director WinWill Technologies, Hyderabad	Energy Management	50
3	2023-24	Mr. Umashankar	Head- Automation Farm division Mahindra and Mahindra Zaheerabad India.	Material Required Planning	50
		Mr G Ratna Prasad	National Head & Technical Manager Softcell Technologies Bangalore	CAE Practices in i4.0	50
		Mr. Prasada Rao	Managing Director Winwill Technologies, Hyderabad	3D Printing Systems and Applications	50

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

6.1 Adequate and well equipped laboratories, and technical manpower (40)

Total Marks 40.00

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Engineering an	3	CARPENTRY:	60	Mr.Brahamam	Laboratory Ass	ITI
2	Engineering an	3	FITTING: Varic	60	Mr. B. Rajesh	Laboratory Ass	ITI
3	Engineering an	3	TIN SMITHY: F	60	Mr. N. Krishna	Laboratory Ass	ITI
4	Engineering an	3	PLUMBING: B	60	Mr. Jaya Rao	Laboratory Ass	ITI
5	Engineering an	3	FOUNDRY: Mc	60	Mr. K. Lakshmi	Laboratory Ass	ITI
6	Engineering an	3	WELDING: Arc	60	Mr. B. Poorna C	Laboratory Ass	ITI
7	Engineering an	3	HOUSE WIRIN	60	Mr. V. Ramu	Laboratory Ass	ITI
8	Engineering an	3	BLACK SMITH	60	Mr. M. Venkata	Laboratory Ass	ITI
9	Materials Engir	3	Muffle Furnace	50	Mr.B.Poorna C	Laboratory Ass	ITI
10	Materials Engir	3	Jominy End Q	50	Mr.B.Poorna C	Laboratory Ass	ITI
11	Materials Engir	3	Hydraulic Spec	50	Mr.B.Poorna C	Laboratory Ass	ITI
12	Materials Engir	3	Disc Polishing	50	Mr.B.Poorna C	Laboratory Ass	ITI
13	Materials Engir	3	Belt Grinding M	50	Mr.B.Poorna C	Laboratory Ass	ITI
14	Materials Engir	3	Metallurgical M	50	Mr.B.Poorna C	Laboratory Ass	ITI
15	Materials Engir	3	Carbon sulphu	50	Mr.B.Poorna C	Laboratory Ass	ITI
16	Materials Engir	3	Universal Vibre	50	Mr.B.Poorna C	Laboratory Ass	ITI
17	Fluid Mechanic	3	Reciprocating f	60	Mr. K. Lakshmi	Laboratory Ass	ITI
18	Fluid Mechanic	3	Kaplan turbine	60	Mr. K. Lakshmi	Laboratory Ass	ITI
19	Fluid Mechanic	3	Francis Turbine	60	Mr. K. Lakshmi	Laboratory Ass	ITI
20	Fluid Mechanic	3	Multi Stage Ce	60	Mr. K. Lakshmi	Laboratory Ass	ITI
21	Fluid Mechanic	3	Major & Minor	60	Mr. K. Lakshmi	Laboratory Ass	ITI
22	Fluid Mechanic	3	Bernoulis Appa	60	Mr. K. Lakshmi	Laboratory Ass	ITI
23	Fluid Mechanic	3	Impact of Jet o	60	Mr. K. Lakshmi	Laboratory Ass	ITI
24	Fluid Mechanic	3	Venturimeter	60	Mr. K. Lakshmi	Laboratory Ass	ITI
25	Fluid Mechanic	3	Orifice meter	60	Mr. K. Lakshmi	Laboratory Ass	ITI

26	Fluid Mechanic	3	Pelton Wheel T	60	Mr. K. Lakshmi	Laboratory Ass	ITI
27	Fluid Mechanic	3	Single Stage C	60	Mr. K. Lakshmi	Laboratory Ass	ITI
28	Manufacturing	3	Plasma Weldin	50	Mr. B. Poorna (	Laboratory Ass	ITI
29	Manufacturing	3	Gas Welding	50	Mr. B. Poorna (	Laboratory Ass	ITI
30	Manufacturing	3	Arc Welding	50	Mr. B. Poorna (	Laboratory Ass	ITI
31	Manufacturing	3	TIG Welding	50	Mr. B. Poorna (	Laboratory Ass	ITI
32	Manufacturing	3	Metal Melting F	50	Mr. B. Poorna (	Laboratory Ass	ITI
33	Manufacturing	3	Wood Turning I	50	Mr. B. Poorna (	Laboratory Ass	ITI
34	Manufacturing	3	Sand Permeab	50	Mr. B. Poorna (	Laboratory Ass	ITI
35	Manufacturing	3	Universal Sanc	50	Mr. B. Poorna (	Laboratory Ass	ITI
36	Manufacturing	3	Hydraulic Pres:	50	Mr. B. Poorna (	Laboratory Ass	ITI
37	Manufacturing	3	Power press	50	Mr. B. Poorna (	Laboratory Ass	ITI
38	Manufacturing	3	Injection Mould	50	Mr. B. Poorna (	Laboratory Ass	ITI
39	Manufacturing	3	Blow Moulding	50	Mr. B. Poorna (	Laboratory Ass	ITI
40	Strength of Ma	3	Universal Testi	60	Mr. Satyanaray	Laboratory Ass	ITI
41	Strength of Ma	3	Brinell & Rockv	60	Mr. Satyanaray	Laboratory Ass	ITI
42	Strength of Ma	3	Impact Test	60	Mr. Satyanaray	Laboratory Ass	ITI
43	Strength of Ma	3	Torsion Testing	60	Mr. Satyanaray	Laboratory Ass	ITI
44	Strength of Ma	3	Spring Test	60	Mr. Satyanaray	Laboratory Ass	ITI
45	Strength of Ma	3	Simply Support	60	Mr. Satyanaray	Laboratory Ass	ITI
46	Strength of Ma	3	Gyroscope App	60	Mr. Satyanaray	Laboratory Ass	ITI
47	Strength of Ma	3	Universal Vibr	60	Mr. Satyanaray	Laboratory Ass	ITI
48	Metrology	3	Sine Bars	50	Mr. Krishna	Laboratory Ass	ITI
49	Metrology	3	Vernier Caliper	50	Mr. Krishna	Laboratory Ass	ITI
50	Metrology	3	Screw gauge	50	Mr. Krishna	Laboratory Ass	ITI
51	Metrology	3	Tool Makers M	50	Mr. Krishna	Laboratory Ass	ITI
52	Metrology	3	Surface Plate	50	Mr. Krishna	Laboratory Ass	ITI
53	Metrology	3	Bore Gauge	50	Mr. Krishna	Laboratory Ass	ITI

54	Machine Tools	3	Lathe Machine	60	Mr. Krishna	Laboratory Ass	ITI
55	Machine Tools	3	Milling Machine	60	Mr. Krishna	Laboratory Ass	ITI
56	Machine Tools	3	Drilling Machine	60	Mr. Krishna	Laboratory Ass	ITI
57	Machine Tools	3	Planar Machine	60	Mr. Krishna	Laboratory Ass	ITI
58	Machine Tools	3	Shaping Machine	60	Mr. Krishna	Laboratory Ass	ITI
59	Machine Tools	3	Grinding Machine	60	Mr. Krishna	Laboratory Ass	ITI
60	Machine Tools	3	Slotting Machine	60	Mr. Krishna	Laboratory Ass	ITI
61	Machine Tools	3	EDM	60	Mr. Krishna	Laboratory Ass	ITI
62	Machine Tools	3	Centre Less Grinding	60	Mr. Krishna	Laboratory Ass	ITI
63	Thermal Engine	3	Multi Cylinder Engine	60	Mr. K. Lakshmi	Laboratory Ass	ITI
64	Thermal Engine	3	Multi Stage Reciprocating	60	Mr. K. Lakshmi	Laboratory Ass	ITI
65	Thermal Engine	3	Four-Stroke SI Engine	60	Mr. K. Lakshmi	Laboratory Ass	ITI
66	Thermal Engine	3	Two-Stroke SI Engine	60	Mr. K. Lakshmi	Laboratory Ass	ITI
67	Thermal Engine	3	Bio -Diesel Mix	60	Mr. K. Lakshmi	Laboratory Ass	ITI
68	Thermal Engine	3	LPG Cylinder Engine	60	Mr. K. Lakshmi	Laboratory Ass	ITI
69	Thermal Engine	3	Evacuative Turbine	60	Mr. K. Lakshmi	Laboratory Ass	ITI
70	Thermal Engine	3	Solar flat Plate	60	Mr. K. Lakshmi	Laboratory Ass	ITI
71	Thermal Engine	3	Variable Compression	60	Mr. K. Lakshmi	Laboratory Ass	ITI
72	Thermal Engine	3	V-I Characteristics	60	Mr. K. Lakshmi	Laboratory Ass	ITI
73	Thermal Engine	3	Flame front pressure	60	Mr. K. Lakshmi	Laboratory Ass	ITI
74	Thermal Engine	3	Valve Timing Diagram	60	Mr. K. Lakshmi	Laboratory Ass	ITI
75	Thermal Engine	3	Old Engine for	60	Mr. K. Lakshmi	Laboratory Ass	ITI
76	Thermal Engine	3	Boiler models	60	Mr. K. Lakshmi	Laboratory Ass	ITI
77	Thermal Engine	3	Single Cylinder	60	Mr. K. Lakshmi	Laboratory Ass	ITI
78	Thermal Engine	3	Vapour Compression	60	Mr. K. Lakshmi	Laboratory Ass	ITI
79	Heat Transfer	3	Heat transfer through	50	Mr. K. Lakshmi	Laboratory Ass	ITI
80	Heat Transfer	3	Critical heat flux	50	Mr. K. Lakshmi	Laboratory Ass	ITI
81	Heat Transfer	3	Measurement of	50	Mr. K. Lakshmi	Laboratory Ass	ITI

82	Heat Transfer	3	Heat transfer tt	50	Mr. K. Lakshmi	Laboratory Ass	ITI
83	Heat Transfer	3	Heat pipe dem	50	Mr. K. Lakshmi	Laboratory Ass	ITI
84	Heat Transfer	3	Heat transfer tt	50	Mr. K. Lakshmi	Laboratory Ass	ITI
85	Heat Transfer	3	Heat transfer tt	50	Mr. K. Lakshmi	Laboratory Ass	ITI
86	Heat Transfer	3	Parallel & coun	50	Mr. K. Lakshmi	Laboratory Ass	ITI
87	Heat Transfer	3	Heat transfer tt	50	Mr. K. Lakshmi	Laboratory Ass	ITI
88	Heat Transfer	3	Stefan Boltzma	50	Mr. K. Lakshmi	Laboratory Ass	ITI
89	Heat Transfer	3	Thermal condu	50	Mr. K. Lakshmi	Laboratory Ass	ITI
90	Heat Transfer	3	Thermal condu	50	Mr. K. Lakshmi	Laboratory Ass	ITI
91	Heat Transfer	3	Transient Heat	50	Mr. K. Lakshmi	Laboratory Ass	ITI
92	Heat Transfer	3	Film wise drop	50	Mr. K. Lakshmi	Laboratory Ass	ITI
93	CAD/CAM	1	Computers - 7C	50%	Mr. M. Venkata	Laboratory Ass	ITI
94	Mechanical Me	3	Calibration of F	50%	Mr. Ch. Jaya R	Laboratory Ass	ITI
95	Mechanical Me	3	Calibration of L	50%	Mr. Ch. Jaya R	Laboratory Ass	ITI
96	Mechanical Me	3	Calibration of L	50%	Mr. Ch. Jaya R	Laboratory Ass	ITI
97	Mechanical Me	3	Calibration of T	50%	Mr. Ch. Jaya R	Laboratory Ass	ITI
98	Mechanical Me	3	Calibration of S	50%	Mr. Ch. Jaya R	Laboratory Ass	ITI
99	Mechanical Me	3	Calibration of A	50%	Mr. Ch. Jaya R	Laboratory Ass	ITI
100	Mechanical Me	3	Calibration of F	50%	Mr. Ch. Jaya R	Laboratory Ass	ITI
101	Mechanical Me	3	Vibration Setup	50%	Mr. Ch. Jaya R	Laboratory Ass	ITI
102	Mechanical Me	3	Calibration of N	50%	Mr. Ch. Jaya R	Laboratory Ass	ITI
103	Computer Aide	1	Computers -70	50%	Mr. M. Venkata	Laboratory Ass	ITI

6.2 Laboratories maintenance and overall ambience (10)

Total Marks 10.00

The department is having well equipped laboratories to conduct the experiments as per the JNTUH curriculum and also few additional experiments beyond the syllabus. This department is having well equipped laboratories in addition to first year and interdisciplinary laboratories to meet the curriculum requirements and POs.

Engineering Workshop: The objective of the laboratory is learning. The experiments are designed to illustrate phenomena in different areas of Workshop and to expose us to uses of instruments. Conduct the job with interest and an attitude of learning.

Materials Engineering lab: Graduate will achieve the art of reflective learning, build hands-on each material. Demonstrate the ability to function on engineering and science laboratory teams, as well as on multidisciplinary projects.

Fluid Mechanics and Hydraulic Machinery lab: In this lab, students gain an understanding of the functioning of various hydraulic machines such as turbines and pumps.

Manufacturing Processes lab: Laboratory includes facilities to demonstrate and explore examples of Casting, Molding, Machining and Joining processes. The lab equipment have been used for studies in machining, injection molding and welding. The machine tools have also been used to fabricate pieces of equipment for experiments.

Strength of Materials lab: The objective of the strength of materials lab is to demonstrate the basic principles in the area of strength and mechanics of materials and structural analysis to the undergraduate students through a series of experiments. In this lab the experiments are performed to measure the properties of the materials such as impact strength, tensile strength, compressive strength, hardness, ductility etc.

Metrology lab: Metrology is described as the science of measurement and the science of accuracy and precision and its application to the control of manufacturing processes or to produce quality products. If we cannot measure and trace at macro or micro scale, we cannot produce parts at macro or micro-scale. Lack of metrology knowledge would hinder successful conversion of micro or nanotechnology into real products. The demands of industrial surface metrology consist of both economic and scientific aspects. The products are to be produced at a faster rate, cheaply and easily and also should be reliable, comparable and reproducible.

Machine Tools lab: Machine tools are power-driven tools used by mechanical engineers to impart the desired size and shape to work pieces, the desired accuracy is achieved by removing excess metal in the form of chips. In this lab, students perform different operations on the lathe such as taper turning, thread cutting and grooving. They also cut different types of gears on the milling machine that is provided with an indexing mechanism.

Thermal Engineering lab: Transportation today is essential to all mankind, and occupying a very important position in the field of transport development is the internal combustion machine. In this lab, nearly all types of modern two-stroke and four-stroke engines are available for students to gain practical knowledge in the characteristics and functioning of different engines. Cut sections of various engines help students understand engine features better.

Heat Transfer lab: For engineering students and practicing engineers and technicians, heat transfer is a subject of wide interest. It involves the design, construction, testing and operation of the many forms of heat exchange equipment required in scientific and industrial technology. Our HT lab is well-equipped with all the required experimental setups.

CAD/CAM lab: It provides a computing environment where students can put to practice the concepts and principles they have studied in their lectures. Graduate and undergraduate students have access to software focused on CAD/CAM work that they will need to complete their industrial engineering courses.

Mechanical Measurements and Instrumentation lab: This lab mainly deals with different sensors, transducers, bridges and also the various types of meters primarily used for industrial applications. Experiments are mainly on measurement of industrial parameters like level, acceleration, pressure flow, torque, displacement etc. Measurement Laboratory is equipped with modern measurement instrumentation equipment, which helps the students to study different mechanism of measurement. Students learn to measure as well as develop the skill to calibrate the load sensor, displacement transducer. The aim of this lab is to fortify the students with an adequate work experience in the measurement of different quantities and also the expertise in handling the instruments involved. The purpose of Measurement Lab is to learn about some of the basic instrumentation used to operate modern test and measurement systems.

CADS lab: It provides a computing environment where students can put to practice the concepts and principles they have studied in their lectures. Graduate and undergraduate students have access to software focused on CAD simulation and work that they will need to complete their industrial engineering courses.

Facilities available in the projects lab:

- Dedicated R&D room with LCD Projector
- Computer facility with Internet connection
- Advanced version of hardware / software requirements
- Licensed software is Auto- cad, Pro-e, Catia, Ansys

Lab Equipment and Maintenance: After every semester end, stock of current equipment, materials, software licenses etc. are verified and the requirements for the next semester are worked out. Budget is prepared for procuring additional requirements and for maintenance of the equipment well before the beginning of next semester. This budget is part of the annual planned budget. Once the funds are released the necessary procurements or maintenance are done as needed.

After every lab session is completed, all the equipment used for carrying out the experiments are checked before the student leaves the laboratory. If any equipment/systems are found to be damaged, necessary investigation will be made and the equipment/system shall be repaired, if possible, otherwise it is replaced.

The lab assistant shall place all the equipment in appropriate identified place after the lab session is over.

Providing Lab Services to Students of Other Departments: At the end of every semester, every department shall intimate Mechanical department regarding their lab requirements for the next semester. This forms the input for preparing workload distribution, time table preparation and manpower planning (any additional requirement for faculty, lab assistants etc. are planned well in advance).

Requirements of Services Needed from Other Departments Mechanical department shall also prepare the list of requirements for laboratories services that are required from other departments and intimate the respective departments. This is done at the end of every semester to meet the next semester requirements

S.No	Name of the laboratory	Maintenance and Ambience
1	Engineering Workshop I, II, III & IV	<p>Maintenance-Periodic sharpening of tools (weekly), oiling and greasing of machines and equipment (Monthly). Maintenance record and log book are maintained</p> <p>Ambience-Adequate ventilation and lighting is provided. Display boards of tools and work instructions are provided.</p>
2	Materials Engineering	<p>Maintenance-Periodic Maintenance of Disc polishing machine, Furnace and Metallurgical Microscopes. (Once in fifteen days). Maintenance record and log book are maintained</p> <p>Ambience -Microstructure Display boards (Steel, Cast Iron & nonferrous), Display boards (Iron and Steel making), Platform and tables are provided at sufficient height for microscopic examination of specimen</p>
3	Fluid Mechanics and Hydraulic Machinery	<p>Maintenance- Periodic maintenance of pumps and turbines is carried out. Oiling and greasing is done once in a month. Mercury filling in manometers once in a semester. Maintenance record and log book are maintained.</p> <p>Ambience- Adequate lighting and ventilation is provided.</p>
4	Manufacturing Processes	<p>Maintenance -Periodic Maintenance of Sand Mixer, Welding Machines, and presses is done once in 2 weeks. Maintenance record and log book are maintained</p> <p>Ambience- Proper lighting and ventilation is provided.</p>
5	Strength of Materials	<p>Maintenance- -Periodic oiling and Greasing of the machines is done once in 15 days</p> <p>Ambience-Adequate ventilation and lighting is provided.</p>
6	Metrology	<p>Maintenance- Periodic greasing of slip gauges. Maintenance record and log book are maintained.</p> <p>Ambience -Adequate lighting and ventilation is provided</p>

7	Machine Tools	<p>Maintenance –Periodic oiling and Greasing of the machines is done once in 15 days. Before beginning of Academic year M/Cs are inspected for worn out parts, which are replaced to prevent break down. Maintenance record and log book are maintained</p> <p>Ambience –Proper lighting and ventilation is provided</p>
8	Thermal Engineering	<p>Maintenance-Periodic maintenance of engines, oiling, greasing and lubrication of engines once in a month. Before beginning of Academic Year Inspection of engines for worn out parts which are replaced to prevent break down. Maintenance record and log book are maintained</p> <p>Ambience- Good lighting and ventilation is provided. Exhaust from engines is vented out. Display boards of engines and work instructions are provided for maintaining ambience.</p>
9	Heat Transfer	<p>Maintenance – Periodic oiling and Greasing of the machines is done once in 15 days. Before beginning of Academic year M/Cs are inspected for worn out parts, which are replaced to prevent break down. Maintenance record and log book are maintained</p> <p>Ambience –Proper lighting and ventilation is provided</p>
10	CAD /CAM	<p>Maintenance –Hardware and Networking Engineers are employed for preventive and break down maintenance of Computer systems UPS is provided for uninterrupted power to prevent system crash. Maintenance record and log book are maintained</p> <p>Ambience – Good lighting and A/C s are provided. LCD projector is provided.</p>
11	MMI	<p>Maintenance –Periodic Maintenance of Instruments is done once in <u>a 2 weeks</u>. Maintenance record and log book are maintained</p> <p>Ambience- Proper lighting and ventilation is provided.</p>
12	CADS	<p>Maintenance –Hardware and Networking Engineers are employed for preventive and break down maintenance of Computer systems UPS is provided for uninterrupted power to prevent system crash. Maintenance record and log book are maintained</p> <p>Ambience – Good lighting and A/C s are provided. LCD projector is provided.</p>

OVERALL AMBIENCE

- All laboratories are equipped with modern equipment's to meet the requirement of curriculum.
- Laboratory manuals are prepared and are available in soft and hard copy.
- All laboratories are well furnished.
- Laboratories kept open beyond office hours as per the need.

- All laboratories have sufficient natural light, good ventilation with tubes and fan arrangement.
- Overall ambience of laboratory is good.

CODE OF CONDUCT FOR THE LABORATORIES

- All students must observe the Dress Code while in the laboratory.
- Sandals or open-toed shoes are NOT allowed.
- Foods, drinks and smoking are NOT allowed.
- All bags must be left at the indicated place.
- The lab timetable must be strictly followed.
- Be PUNCTUAL for your laboratory session.
- Program must be executed within the given time.
- Noise must be kept to a minimum.
- Workspace must be kept clean and tidy at all time.
- All students are liable for any damage to the accessories due to their own negligence.
- Students are strictly PROHIBITED from taking out any items from the laboratory.
- Students are NOT allowed to work alone in the laboratory without the Lab Supervisor
- Report immediately to the Lab Supervisor if any malfunction of the machine, is there.

BEFORE LEAVING THE LAB

- Place the chairs properly.
- Turn off the machines properly
- Turn off the monitors
- Please check the laboratory notice board regularly for updates

6.3 Safety measures in laboratories (10)

Total Marks 10.00

Sr. No	Laboratory Name	Safety Measures
1	Engineering Workshop I & II	Safety instructions display board Caution display boards Use of apron, shoes, face shield, goggles by students Do's and Don'ts Display board First aid kit Fire Hydrant and fire Extinguisher point Hand gloves, Shoes, Tuck in, Half Shirt, No loose hair for girl students
2	Materials Engineering	Safety instructions display board Do's and Don'ts Display board Don'ts Display board First aid kit Fire Extinguisher point
3	Fluid Mechanics and Hydraulic Machinery	Safety instructions display board Use of apron, shoes by students Do's and Don'ts Display board First aid kit Fire Hydrant and fire Extinguisher point
4	Manufacturing Processes	Safety instructions display board Do's and Don'ts Display board Use of apron, shoes by students Fire Hydrant and fire Extinguisher point First aid kit
5	Strength of Materials	Proper earthen of equipment Shoes, Tuck in, Half Shirt No loose hair for girl students First-Aid kit Fire extinguisher
6	Metrology	Safety instructions display board Do's and Don'ts Display board Fire Extinguisher point First aid kit
7	Machine Tools	Proper earthen of equipment Shoes, Tuck in, Half Shirt No loose hair for girl students First-Aid kit
8	Thermal Engineering	Proper earthen of equipment Shoes, Tuck in, Half Shirt No loose hair for girl students First-Aid kit Fire extinguisher
9	Heat Transfer	Proper earthen of equipment Shoes, Tuck in, Half Shirt No loose hair for girl students First-Aid kit Fire extinguisher Shoes, Tuck in, Half Shirt No loose hair for girl students First-Aid kit

10	CAD/CAM	Proper earthen of equipment Air conditioning required First-Aid kit
11	Mechanical Measurements and Instrumentation	Proper earthen of equipment Shoes, Tuck in, Half Shirt No loose hair for girl students First-Aid kit
12	CADS	Proper earthen of equipment Air conditioning required First-Aid kit

6.4 Project laboratory (20)

Total Marks 20.00

Project laboratory

Research Laboratories are established in the department to carry out Research Works, Consultancies, Major and Mini Projects. Considering the interdisciplinary nature of Automation and Robotics, a separate department helps in creating a complete ecosystem for Academics and Research at MRCET. The department will offer B.Tech, M.Tech. and plans to offer a variety of Research projects. The emergence of the department is the consequence of the heavy demand from the industry on robotics and IOT and the need to tackle the many fundamental and foundational research problems arising in a rapidly evolving field.

The Department of Mechanical has a sizable number of highly dedicated and dynamic Faculty members, with a wide variety of expertise.

The following research laboratories facilities are available in the department.

S.No	Name of the Laboratory
1	Centre for Innovation and Incubation.
2	Centre for Start-ups & Technology Business Incubator
3	Centre for Drone Technology
4	Research Project Laboratory

1.CENTRE FOR STARTUP & TECHNOLOGY BUSINESS INCUBATOR RESEARCH INFRASTRUCTURE AND FACILITIES

S.No.	Name of the Equipment
1	3D Printer
2	Blow Moulding Machine
3	Plasma Welding/Cutting Machine
4	TIG Welding Machine
5	Metal Melting Furnace
6	Injection Molding Machine
7	Universal Sand Strength Machine
8	Mini CNC Router
9	CNC Turning machine
10	Evacutive Tube Solar Collector
11	Solar Flat Plate Collector
12	I-V Characteristics of Solar Panel
13	Bio-Diesel Mixer (Blender)
14	LPG Kit for SI Engine
15	Muffle Furnace
16	Electronic Metallurgical Microscope
17	Seismic Vibration Apparatus
18	Gyroscope couple
19	Universal Vibration Apparatus
20	FFT Analyzer
21	Electro Discharge Machine (EDM)
22	Wind Tunnel Blower

S.No	Facility Name	Details	Number	Reason(s) for creating facility
1.	3-D Printer	Build Size:100length x 150width x 200height Layer resolution: 100 microns Filament Type: Polylactic acid plastic File types: .stl files only Software:	1	To carry Project & research work
2.	FTT ANALYSER	Power:0.25HP Speed:3000rpm S 1 -Duty B -Class Current: 1.8AMP 180 VDC	1	To carry Project & research work
3.	ROBOTIC ARM	No of axis = 4 + Gripper; Wrist Rotate upgrade optional Distance (shoulder-to-elbow axis) = 5.75", Distance (elbow-to-wrist axis) = 7.375", Servo motion control = local closed loop Height (arm parked) = 7.25" Height (reaching up) = 19.00" Median forward reach = 10.25" Gripper opening = 1.25" Lift weight (arm extended) = approx. 13 oz Weight (without batteries) = 31 oz Range of motion per axis = 180 degrees Accuracy of motion per axis = Servo controller dependent (SSC32=.09 degrees) Servo voltage = 6 vdc	1	To carry Project & research work
4.	SEGWAY	Top Speed: 20kph Weight: 38kgs Width: Weight capacity: 118 kg Motors: 2HP electric motor Power: lithium-ion or NIMH batteries	1	To carry Project & research work

5	CNC MACHINE	Tool Area: 1500mmx1000m Tool: HSS Bit 30000rpm spindle with PID control Control System: RobotSpace Custom Controller with PID Control 3 Axis geared Stepper Motors with encoders Software: Meshcam + Linux CNC TB866 Stepper Controllers 1200W System Load Capacity: 500kg Speed: 5-20m/min Manual stop / start buttons	1	To carry B-Tech, M- Tech Projects & research work
6	MATLAB	Version 10.0		To carry B-Tech, M- Tech Projects & research work
7	LABVIEW	Lab view 2019		To carry B-Tech, M- Tech Projects & research work
8	SCADA	SCADA-Pro		To carry B-Tech, M- Tech Projects & research work

2. Research Projects Carried out in STARTUP & TECHNOLOGY BUSINESS INCUBATOR

S.No.	Name of the Project	Faculty Name	Duration	Status
1	DESIGN AND FABRICATION OF PLASTIC WASTE RECYCLING INTO 3D PRINTER FILMENT	Mr. C. Daksheswara Reddy	2023-24	Completed
2	FABRICATION OF 005 HOUSING OF KONKURS-M MISSILE	Mrs. K. Navya Sri	2023-24	Completed
3	AUTOMATIC RAILWAY GATING SYSTEM	Mrs. S. Deepthi	2023-24	Completed

3. Centre for Drone Technology

The Centre for Drone Technology (CDT) is a strive to promote skilled human resources, improve participation and create a knowledge centre through group research involving all stakeholders surrounding State Agencies, Armed Forces, Research Groups, Educational Institutes, Private Parties and Communities of this region.

The CDT plays a major role in enhancing industrial awareness among students and also provides placement opportunities in the same field, besides equipping them with valuable skills.

Vision:

To create a cutting-edge centre for analytics and research drones that fosters innovation, research, knowledge sharing, and support.

Mission:

In order to ensure the collection of airborne data of social and scientific interest for emergency situation resolution, monitoring, and mitigation, as well as to serve the social, economic, and political interests of the region and the nation, appropriate and efficient methods of knowledge and capacity building in the public domain through research, innovation, and training.

Technical Specifications:

Logistics Drone

Quadcopter with 8 kg/axis

Take-off weight – 32 kg

Payload- 10 kg

Battery – 22000 mAh LiPo

Charger- 1080 W Lipo Dual Charger

Use case- weapon dropping, courier transportation

Range- 10Km maximum, sealed to 1Km for now

Altitude: 1000mts maximum but locked to 30mts





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4. Research Project laboratory

Research Laboratories are established in the department to carry out Research Works, Consultancies, Major and Mini Projects. Considering the interdisciplinary nature of Automation and Robotics, a separate department helps in creating a complete ecosystem for Academics and Research at MRCET. The department will offer B.Tech, M.Tech. and plans to offer a variety of Research projects. The emergence of the department is the consequence of the heavy demand from the industry on robotics and IOT and the need to tackle the many fundamental and foundational research problems arising in a rapidly evolving field.

The Department of Mechanical has a sizable number of highly dedicated and dynamic Faculty members, with a wide variety of expertise.

Research project lab facility is exclusively provided to the B.Tech, M.Tech and Research scholars to carry out their project works. This Laboratory is specially designed to suite projects being conducted under satellite/ remote mode.

A state-of-the-art computing centre equipped with high-end computer systems and broadband internet facility to mathematical modelling, analysis and simulations.

Domain specific faculty members and technical staff are available beyond working hours to support students for doing research work. The laboratory is equipped with educational tools to create interest and better understanding of existing research problems. Students are encouraged to do project work in domain wise with the support of the facilities available in the laboratories. Journals, technical magazines, Digital Library and reference books are equipped in this lab. MAT LAB Software with evaluation board and necessary hardware items are available in the laboratory to familiarize the students to do initiate their Research work.

Software's

Commercial Software	Similar Open source	Download Link	License
MATLAB	SCILAB	http://www.scilab.org/products/scilab/download	CeCILL
Microsoft Office	Open office	http://download.openoffice.org/	LGPL
Microsoft Office	LaTeX	http://www.latex-project.org/ftp.html	LPPL
Microsoft Windows	GNU/Linux	http://www.gnu.org/software/software.html	GPL
Turbo C	GCC	http://gcc.gnu.org/releases.html	GPL
Pro/E	BRL-CAD	http://brlcad.org/d/download	BSD
MS OFFICE Plotting tools	Xmgrace, XFIG, GNU PLOT	http://sourceforge.net/projects/graceplot/ http://xfig.org/art17.html http://www.gnuplot.info/download.html	BSD, GPL, Own license (but free)

Research Projects Carried out at Research Project Laboratory

S.No.	Name of the Project	Student Name	Guide	Duration	Status
1	Modelling of air conditioning	Eashwar	Dr. D. Damodara Reddy	2022-23	Completed
2	Design and analysis of fluid reciprocating air suspension system for motorcycle	Nitisha	Mrs. S. Deepthi	2022-23	Completed
3	Design and analysis of supersonic aircraft wing	K. Srikanth	Mrs. S. Deepthi	2022-23	Completed
4	Design and analysis of composite leaf spring	M. SIVA SAI	Dr. T. Lokeswara Rao	2023-24	Completed
5	Design and analysis of buggy chassis	K. Sujeth	Dr. P. Srikar	2023-24	Completed
6	Design and analysis of load lifting mechanism over stair cases	Bhukya Naveen	Mr. V. Gopala Krishna	2023-24	Completed

7 CONTINUOUS IMPROVEMENT (75)

Total Marks 75.00

7.1 Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30)

Total Marks 30.00

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
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PO 1 : Engineering Knowledge

PO 1	2.5	2.78	The desired level has been accomplished.
<p>Action 1: Mathematical modeling of mechanical systems is enhanced by integrating the latest topics. Action 2: The syllabus of basic science courses, such as Physics and Mathematics, has been revised to strengthen the mathematical foundation and its applications. Action 3: Students have been encouraged to specialize in multi-physics concepts, including fluid-structure interaction, mechatronics, and computer science, to gain additional skills while building a strong foundation in core Mechanical Engineering. Action 4: Curriculum updates are taken up every year basis to spruce up the curriculum with the latest trends in Engineering. Several new Electives have been started and old one spruced up in the last four years. These include a new elective on smart manufacturing, 3D Printing, work experience course on IOT etc. An Industry-Institute Interaction team supports student project work and training in nearby industries around Hyderabad, offering live projects for valuable exposure. Some students also train in Advanced Labs at NIT and IITH</p>			

PO 2 : Problem Analysis

PO 2	2.5	2.69	The desired level has been accomplished.
<p>Action 1: The Department has established the Under Graduate Research Award (UGRA), offering cash incentives to selected UG students to work on a well-defined research problem as their major project, guided by a faculty mentor. Students may also undertake projects in other departments, such as Physics or Computer Science, to further enhance their problem analysis skills. Action 2: Students have been encouraged to participate in sponsored R&D projects within the Department, providing practical, real-life scenarios to enhance their problem analysis skills. Action 3: The Department is undertaking several community-related real-life projects with full participation from the students.</p>			

PO 3 : Design/development of Solutions

PO 3	2.5	2.69	The desired level has been accomplished.
<p>Action 1: Mini-Project and student internship must be taken up by all the students to complete a project in which the emphasis is on learning to follow the complete Design Engineering process from identification of need, problem formulation, generation of ideas, analysis of solutions, preliminary design, verifying technological feasibility and economic viability, detailed design and implementation. Action 2: The department encourages creative work and product design relevant to society, where students plan and execute projects using locally available resources. This approach helps them understand the practical needs of society and develop solutions.</p>			

PO 4 : Conduct Investigations of Complex Problems

PO 4	2.5	2.68	The desired level has been accomplished.
<p>Action 1: Students are encouraged to develop their own experimental ideas and validate them using lab facilities. This enhances conceptual clarity and helps them recognize the importance of setting up experiments. Action 2: In every year, all the students are required to propose one research topic related to the lab course in that semester and utilize the experimental facility available in the department. Action 3: Students have been encouraged to participate in the sponsored R&D Projects. Action 4: The Department is undertaking several community-related real-life projects with full student participation, providing practical situations that enhance skills in investigating complex problems.</p>			

PO 5 : Modern Tool Usage

PO 5	2.5	2.68	The desired level has been accomplished.
<p>Action 1: The Department contains modern lab facilities have been set up for the students to perform experimentation. Action 2: Department has the setup of latest CAD/CAM tools for use in various projects and lab course. Action 3: NPTEL, Coursera, and EdX teaching-learning videos, along with virtual lab facilities, are available to students at all times. They are encouraged to use the Institute's web portal, which offers complete videos and other resources for various courses. Action 4: Teachers are also utilizing online teaching and evaluation software, helping students become familiar with these tools.</p>			

PO 6 : The Engineer and Society

PO 6	2.5	2.74	The desired level has been accomplished.
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Action 1: Students must complete a Design Engineering and Theme Development project, emphasizing the entire Design Engineering process: identifying needs, formulating problems, generating ideas, analyzing solutions, conducting preliminary designs, verifying feasibility and viability, and finalizing detailed design and implementation. Action 2: Students must complete a Rural Engineering Project, planning an industry in a rural setting using local resources to understand rural needs and devise practical solutions. Action 3: The department undertakes community-based projects with full student participation, offering practical insights into professional engineering responsibilities.

PO 7 : Environment and Sustainability

PO 7	2.5	2.75	The desired level has been accomplished.
<p>Action 1: A compulsory course on Environmental Science has been introduced for better understanding of the environmental issues and how engineering solutions to the problems can be devised. Action 2: The Institute fosters a culture of using engines and air conditioners only in essential labs, prioritizing energy savings over comfort. Action 3: The MRGI community follows a way of life geared towards sustainable development, holistic education, and social responsibility. Action 4: The Institution has increased the involvement of its staff and students in several environment-related activities with the active participation of students and faculty and through the outreach programs. Action 5: Tree planting in the campus and in the adopted villages is done regularly as part of the activities of NSS volunteers. Action 6: Energy conservation is practiced by the installation of LED Lamps and LED tube light and energy efficient fans.</p>			

PO 8 : Ethics

PO 8	2.5	2.84	The desired level has been accomplished.
<p>Action 1: All the students have to undergo courses on Indian Culture and Comparative Study of religion as a means of promoting harmony and understanding of the Unity in diversity of the country's polity. Action 2: Ethical practices are promoted by the ethos of MRCET. Action 3: Uniform is compulsory for students for promoting equality and eliminating class consciousness. Action 4: Students participate in NSS activities and learn that Service to the Society is an important part of professional life. Action 5: Participation in co-curricular activities and games is compulsory, fostering ethical principles, sportsmanship, and the value of participation over winning. Action 6: A comprehensive continuous evaluation system including Assignments and Class Tests inculcates the culture of regularity and punctuality.</p>			

PO 9 : Individual and Team Work

PO 9	2.5	2.73	The desired level has been accomplished.
<p>Action 1: Students undertake team-based projects such as Design Engineering, Product Development in the third year, and a Major Project in the final year, fostering teamwork and multidisciplinary collaboration across departments. Action 2: Student coordinators contribute to the Placement activities and learn leadership skills. Action 3: The faculty organizes an annual fest, "YANTHROSTAV," entirely managed by students, with participation from thousands across various university faculties, requiring strong management skills for its organization. Action 4: The Final Year Major project may also be taken up as an individual or a Group activity depending on the project and the students learn to work in teams.</p>			

PO 10 : Communication

PO 10	2.5	2.60	The desired level has been accomplished.
<p>Action 1: The students are required to complete Seminar based course final year. They give presentations on latest technological topics and these may go beyond the syllabus of theory courses and promote self-learning as well as communications skills. Action 2: All the Lab and Project courses have Viva – voce examinations which are both internal and external and promote good communication skills. Action 3: Students regularly participate in tech fests outside the Institute and present their papers in Student Contests. Action 4: The students are required to submit detailed reports on their Project work, lab work and Seminar courses for promoting written communication skills.</p>			

PO 11 : Project Management and Finance

PO 11	2.5	2.77	The desired level has been accomplished.
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Action 1: The students have to complete several courses involving team projects like Design Engineering /Theme Development in III-year, Engineering Project in Final year. These teams cut across Departments and enable students to learn to work in teams and in multidisciplinary settings. Action 2: Student coordinators contribute to the Placement activities and learn leadership skills. Action 3: The Faculty organizes an Annual Fest called "YANTHROSTAV" that is completely managed by the students. Participation is of the order of couple of thousand students across various faculties of the University and this requires good management skills to organize. Action 4: The Final Year Major project may also be taken up as an individual or a Group activity depending on the project and the students learn to work in teams. Action 5: Integrate financial planning into projects, teaching students to prepare and manage project budgets, estimate costs, and optimize financial resources.

PO 12 : Life-long Learning

PO 12	2.5	2.63	The desired level has been accomplished.
Action 1: The students are required to complete Seminar based course in final year. They give presentations on latest technological topics and these may go beyond the syllabus of theory courses and promote self-learning and prepare students for lifelong learning. Action 2: Practical Training at the end of I and II year and Internship at the end of Third year enable students to pursue independent projects in an industrial setting with limited mentorship and prepare for lifelong learning.			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
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PSO 1 : Ability to analyze, design and develop Mechanical systems to solve the Engineering problems by integrating thermal, design and manufacturing Domains.

PSO 1	2.5	2.77	The desired level has been accomplished.
Action 1: The Department has established the Under Graduate Research Award (UGRA), where selected UG students receive a cash incentive to work on a well-formulated research problem as their major project, guided by a faculty mentor. Students can also collaborate with other departments, such as Physics or Computer Science, if interested. These projects provide real-life situations to enhance skills in design and solution development. Action 2: Students have been encouraged to participate in the sponsored R&D Projects being carried out in the Department. They are also given incentive under "Earn while you learn" scheme for this work. These provide practical real-life situations for improving skills for Design / development of solutions. Action 3: Several Communities related real-life projects are being taken up in the Department with the full participation of the students. These provide practical real-life situations for improving skills for Design / development of solutions.			

PSO 2 : Ability to succeed in competitive examinations or to pursue higher studies or research.

PSO 2	2.5	2.67	The desired level has been accomplished.
Action 1: The time spent by students has been significantly increased to offer ample exposure to the industry through summer internships and Cooperative Education (Co-op) training. The Co-op training serves the dual purpose of providing industry exposure and offering opportunities to work on real-life, industry-standard problems.			

PSO 3 : Ability to apply the learned Mechanical Engineering knowledge for the Development of society and self.

PSO 3	2.5	2.71	The desired level has been accomplished.
Action 1: The students can take up the projects in other departments also e.g. Department of Physics and Computer Science if they are interested. These provide practical real-life situations for improving skills for Design / development of solutions. Action 2: Students have been encouraged to participate in the sponsored R&D Projects being carried out in the Department. They are also given incentive under "Earn while you learn" scheme for this work. These provide practical real-life situations for improving skills for Design / development of solutions. Action 3: Several Communities related real-life projects are being taken up in the Department with the full participation of the students. These provide practical real-life situations for improving skills for Design / development of solutions in multi-physics.			

7.2 Academic Audit and actions taken thereof during the period of Assessment (15)

Total Marks 15.00

Academic audits are a regular practice in the department, as the institute is ISO 9001-2015 certified. An annual external academic audit is conducted by external auditors, and any observations made by the team are promptly acted upon. In addition, internal audits are performed periodically, as ordered by the principal, with auditors from other departments assigned to carry out the process. The terms and references for these audits are framed by the head of the institution based on previous audit feedback and observations. The academic audit team evaluates the following key aspects within the department:

Academic and Administrative (Internal)

The following committee looks after the day-to-day academic activities and will prepare a audit report and will submit to the principal.

S. No.	Name	Designation	Status
1	Dr. P. Srikar	Professor & HOD, MECH	Chairman
2	Dr. T. Venu Gopal	Dean	Advisor
3	Dr. D. Damodara Reddy	Assoc Professor, MECH Dept.	Coordinator

ACADEMIC ACTIVITIES:

A. COURSE FILE:


Every Faculty Member has to prepare Course File in the concerned subject according to the guidelines given from the department, shown below.

COURSE FILE CONTENTS

S. No	Particulars
1	Almanac (Academic Calendar) *
2	Syllabus*
3	Course Objective & Out comes
4	Session Plan (Lesson Plan) *
5	Time Table (Class & Individual) *
6	International/National Journals
7	Websites
8	Student Seminar Topics
9	Assignment Questions (Unit Wise) *
10	MRCET Questions (Unit Wise) *
11	Competitive Exam Questions (IES, GATE etc.)
12	Objective Questions (Unit Wise)
13	Lecture Notes (Unit Wise) *
14	Tutorial Problems (Unit Wise with solutions)
15	Handouts (Unit Wise) (OHP Sheets, PPTs CDs)
16	Curriculum related Known Gaps
17	Sample Assignment Copies*
18	I Mid Question Paper (Subjective & Objective) *
19	Marks obtained & Result Analysis*
20	II Mid Question Paper (Subjective & Objective) *
21	Marks obtained & Result Analysis*
22	End Examination Question Paper*
23	Marks obtained & Result Analysis*

B. TIME TABLES

A well planned time table with all necessary information will be prepared well in advance and will be displayed in the department notice boards. A sample copy of the same is given below.



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
 (Autonomous Institution-UGC, Govt. of India)

DEPARTMENT OF MECHANICAL ENGINEERING

MRCET/ME/HOD/2024/12/22

TIME TABLE
2nd Year B.Tech Semester-II

Week 09-12-2024

DAY/MONTH	1 9.20AM TO 10.20AM	2 10.20AM TO 11.20AM	11.20AM TO 11.30AM	3 11.30AM TO 12.30PM	12.30PM TO 01.30PM	4 01.30PM TO 02.30PM	5 02.30PM TO 03.30PM
MONDAY	TE-I	DOM	BREAK	MP	LUNCH	SOM	TUTORIAL
TUESDAY	DOM	TE-I		SOM		MP LAB	
WEDNESDAY	MP	PSQT		SOM		DOM	STUDENT SEMINAR
THURSDAY	MP	TE-I		PSQT		SOM LAB	
FRIDAY	SOM	PSQT		TE-I		MP	PPG
SATURDAY	PSQT	DOM		PPG		IDP	

COURSE	CODE	FACULTY	COURSE	CODE	FACULTY
Thermal Engineering - I	R22A0308	Mr. V. GOPALA KRISHNA	Manufacturing Processes Lab	R22A0383	Dr. K. CHANDRA SEKHAR/ Mr. S. VIVEKANANDA
Strength of Materials	R22A0309	Dr. R. HUSSAINVAU	Strength of Materials Lab	R22A0384	Ms. K. NAVYA SRI/ Dr. R. HUSSAINVAU
Dynamics of Machinery	R22A0310	Dr. K. CHANDRA SEKHAR	Industry Oriented Project	R22A0391	Ms. K. NAVYA SRI/ Mr. V. GOPALA KRISHNA
Manufacturing Processes	R22A0311	Dr. K. CHANDRA SEKHAR	Public Policy & Governance	R22A0061	Ms. INDRAJA BHADRI
Probability, Statistics and Queuing Theory	R22A0028	Dr. CHAITANYA			

Class in-charge : Mr. K. Suresh (7 55 72 77 574)

Monitor : Mr. K. Suresh (7 55 72 77 574)

C.LAB INFRASTRUCTURE

The laboratories are equipped with sufficient hardware tools and equipment and licensed software to run the program.

- Each lab operates according to the schedule which is given by the department. Time Table for the specific semester/branch.
- NOTE: Each laboratory course consists of one sessions (two periods) every week. Each laboratory maintains a Stock registers detailing the equipment history within it

D.EQUIPMENT MAINTENANCE:

Periodically equipment maintenance is done.

E.STUDENTS FEEDBACK:

Feedback is collected for all classes. The students are given with feedback forms containing the questions concerning the faculty who deals with the respective classes. The questionnaire is designed to enable them to give their opinion as excellent, very good, good, satisfactory, and poor.

We calculate the score for each faculty and are forwarded to the principal. The students are also allowed to write whatever comments they want to make about the teachers which will be finally checked by Principal and HOD and forwarded to the faculty concerned

The **Malla Reddy College of Engineering And Technology** is a technical institute established in 2004 with the approval of the All India Council for Technical Education. It is located in **Malkajgiri, Hyderabad**. It is affiliated to the **Jawahar Lal Nehru Technological University, Hyderabad**.

Malkajgiri, Hyderabad, Telangana 500100

VENNAM GOPALA KRISHNA ASSISTANT PROFESSOR	Thermal Engineering - I	Responses 25 / 30	Average Score 34.36/40	Average Percentage 85.90/100
S.TECH-MECH Faculty Feedback 2022 - 2023 Batch	Classroom MECH	Batch 2022 - 2023	Course S.TECH	Program Mechanical Engineering (MECH)

Sr. No.	Question	Average Score	Maximum Score	Percentage
1	Overall Rating	4.20	5	84.00
2	Regularity/Punctuality	4.48	5	89.60
3	Lecture Material/Notes	4.36	5	87.20
4	Students Motivation	4.08	5	81.60
5	Assignment/Question Answer Sessions	4.40	5	88.00
6	Command Over the Class	4.32	5	86.40
7	Presentation Skills	4.28	5	85.60
8	Subject Knowledge	4.24	5	84.80

F.STUDENTS ASSIGNMENTS:

In a semester two assignments are given to the students at the internal examination and evaluated

G.LAB INVENTORY LOG BOOKS:

Maintained in each laboratory

H. USAGE OF CLEANING MATERIALS:

Periodically cleaning of materials is done and the action records are maintained

I. TIMELY COMPLETION OF SYLLABUS:

Continuous feedback is taken from all the staff members in regard to complete the syllabus on time

CLASS REVIEW ANALYSIS

Year/Semester: III-I					
Name of the Subject	Faculty Name	Units Covered	No of Extra hours Req	No of test conducted	SIGN
Engineering Mechanics	Mr. C.H. Narayana Murthy	2.2	2	1	
Engineering Thermodynamics	Dr. D. Dhanasekhar Reddy	2.3	1	2	
Fluid mechanics and Hydraulic machines	Dr. Y. Dilip Kumar	2.5	1	1	
Materials Engineering	Dr. P. Sankar	3	0	2	
Kinematics of machinery	Mrs. K. Narekshi	2.5	1	2	
Computer aided machine Drawing	Dr. B. Sandhya Rani	2.5	2	1	
Fluid mechanics and Hydraulic machines lab	Dr. Y. Dilip Kumar	4 Exp	0	0	
Materials Engineering Lab	Dr. K. Chandra Sekhar	4 Exp	0	0	

Year/Semester: III-II					
Name of the Subject	Faculty Name	Units Covered	No of Extra hours Req	No of test conducted	Feedback
Metallurgy and Machine tools	Mr. C. Dabhinav Reddy	2.5	1	2	
Thermal Engineering-II	Dr. Hussaini	2.5	2	1	
Design of Machine Elements	Mr. D. Mani Kumar	2.2	2	1	
Fundamentals of Cyber Security	Mr. S. Vinod Kumar	2.3	1	2	
Intellectual Property Rights	Dr. D. Dhanasekhar Reddy	2.5	1	1	
Advanced Manufacturing	Dr. K. Chandra Sekhar	3	0	2	
Metallurgy and Machine tools lab	Mr. C. Dabhinav Reddy	4 Exp	0	0	
Thermal Engineering -II Lab	Dr. Hussaini	4 Exp	0	0	

Year/Semester: IV-I					
Name of the Subject	Faculty Name	Units Covered	No of Extra hours Req	No of test conducted	Feedback
CAD/CAM	Mrs. Indira	2.5	1	2	
Mechanical Measurements and Instrumentations	Mr. K. Rishi	2.5	2	1	
Finite Element analysis	Dr. Y. Dilip Kumar	2.2	2	1	
Refrigeration and air conditioning	Mr. V. Geetha Krishna	2.3	1	2	
Production and Operation Management	Mrs. S. Deepthi	2.5	1	1	
Maintenance and Safety Engineering	Dr. P.H. Susha Lakshmi	3	0	2	
Mechanical Measurements and Instrumentations	Mr. K. Rishi	4 Exp	0	0	
CAD & S Lab	Mrs. S. Deepthi	4 Exp	0	0	

J.MAINTENANCE OF ALL OFFICE FILES:

The department has check list regarding the maintenance of the office files accordingly the files are maintained and updated on time to time.


FACULTY PERFORMANCE APPRAISAL:

Faculty Self Appraisal is taken at the end of every academic year and the feedback is given to each individual faculty member for further improvement.

- The process of Academic Auditing intends to monitor and enhance the quality of technical education through proper guidelines for both teaching faculty and students, so as to ensure qualified engineers/researchers passing out from engineering course.
- For proper functioning of academics in a department some assessment programs have been designed.

These include as

- Course delivery, as per the curriculum and syllabus.
- The co-curricular and extra-curricular activities of students, overall discipline
- Delivery of the duties and responsibilities of faculty members and monitoring of the class, internal assessment.



HALLAREDDY COLLEGE OF ENGINEERING & TECHNOLOGY

Manamangudi, Durgamly Post, Secunderabad 500 100

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY PERFORMANCE APPRAISAL (Academic Year - 2023-2024)

Department : Mechanical

Name : Dr. R. Divya Lakshmi

Designation : Assoc. Prof.

Qualification : PhD

Date of Joining : 15/6/2022

Teaching experience in MRCEET : 3

Total Teaching experience : 4.5

I. STUDENT FEED BACK OF PREVIOUS TWO SEMESTERS (30%):

Previous Semester I

Theory Subjects (75%) :

S.No.	Name of the subject	Course	Branch	Year	Semester	Feedback Percentage
1	EM	B.Lobh.	Mechanical	2	1	98
2	ETD	B.Lobh.	Mechanical	3	1	92
3						
4						
Average percentage of feedback :						94

Laboratories (25%) :

S.No.	Name of the Lab	Course	Branch	Year	Semester	Feedback Percentage
1						
2						
3						
4						
Average percentage of feedback :						

Previous Semester II

Theory Subjects (75%) :

S.No.	Name of the subject	Course	Branch	Year	Semester	Feedback Percentage
1	HT	B.Lobh.	Mechanical	2	2	94
2						
3						
4						
Average percentage of feedback :						94

Laboratories (25%) :

S.No.	Name of the Lab	Course	Branch	Year	Semester	Feedback Percentage
1						
2						
3						
4						
Average percentage of feedback :						

Previous Semester III

Theory Subjects (75%) :

S.No.	Name of the subject	Course	Branch	Year	Semester	Percentage of pass
1	HT	B.Lobh.	Mechanical	2	2	86
2						
3						
4						
Average pass percentage:						86

II. HOD FEEDBACK (30%-- Each one carries 5%)

1. Personality in the class work and usage of ICT tools : 4

2. Proper leave communication & alternative arrangement during leave period: 5

3. Participation in accreditation work (NBA/NAAC/Others) & general administrative work of Dept. : 5

4. Publications : 4

5. Workshops/Seminars /Guest Lectures/Organized/Attended : 4

6. MOOCs/NPTEL/Certifications : 2

7. Research/External agency Funding (For Ph.D. Faculty) : 4

IV. PRINCIPAL'S FEEDBACK (10%)

Total:

I. Students Feedback : 9

II. Pass Percentage : 8

III. HOD Feedback : 9

IV. Principal's Feedback : 9

SIGNATURE OF FACULTY

SIGNATURE OF HOD

SIGNATURE OF PRINCIPAL

ACADEMIC AUDIT FOR IMPROVING TEACHING LEARNING PROCESS

https://enba.nbaind.org/SARTemplates/eSARUGTierIPrint.aspx?Appid=9757&Progid=641

306/503

The format of the check list maintained for valuating facilities is as follows:

1. Academic Audit

The format of the check list maintained for valuating facilities is as follows:



S.NO	FACILITY	STATUS
1	Text books (Titles) in the central library	YES
2	Volumes in the central library	YES
3	e-Journals (All Branches)	YES
4	Printed journals (National+ International)	YES
5	Subscription of online/offline Technical journals	YES
6	Magazines	YES
7	Subscription of Magazines	YES
8	Availability of internet	YES
9	CD's	YES
10	Faculty access to internet	YES
11	Students access to internet	YES
12	Availability of additional requirements like Printers, scanners, projectors etc	YES
13	Availability of lab equipment	YES
14	Departmental library	YES
15	Reference books in Departmental library	YES
16	NPTEL Videos	YES

2.Examination Audit

S. NO	MODE OF EVALUATION	STATUS
1	Quality of mid exam question papers	YES
2	Quality of assignment questions	YES
3	Quality of Evaluation	YES
4	Question banks made available for students	YES
5	List of invigilation duties for faculty	YES
6	Maintenance of exam time tables	YES
7	Mid Marks and attendance files	YES

3. LABORATORY AUDIT


For all labs including (computer labs where ever applicable), please tick 'yes' if available or 'No' if not available

S.NO	PARTICULARS	STATUS
1	Laboratory equipment available as per syllabus prescribed by JNTUH < Hyderabad/UGC Autonomous	YES
2	Updating of Consumable Registers in the lab	YES
3	Updating the Non consumable stock register	YES
4	Periodic maintenance of laboratory equipment	YES
5	Updating the maintenance log book	YES
6	Regular cleaning of the equipment performed	YES
7	Discarding the equipment in non-working condition	YES
8	Lab manuals and Record books available for the teacher /student	YES
9	Availability of safety precautions in the lab	YES
10	Is code of conduct in the laboratory maintained	YES
11	Availability of first aid box in the laboratory	YES
12	Is the power of supply regularly checked	YES
13	Required lubrication /repair of the equipment performed	YES

4.For labs with computer facility only

S.NO	PARTICULARS	STATUS
1	Software up gradation	YES
2	Anti - virus up gradation	YES
3	Serviceability of computer components	YES
4	UPS facility	YES
5	Air conditioning	YES
6	Server room	YES
7	Projectors/other equipment	YES
8	Internet facility with unwanted pop-ups blocked	YES

At the end of every academic year, all labs (both Hardware and Software) stock verification will be done by Stock Verification Committee constituted by Senior Professors from other departments in the college. Final report will be authenticated by HOD will be documented. Sample copy of Stock Verification of one of the labs is shown below:




MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Affiliated By JNTU, Hyderabad Approved by ACTE, Accredited by NBA & AAC-grade & 503001-2015 CERTIFIED)


STOCK VERIFICATION REPORT
AY 2024-2025


This is to certify that the stock of MATERIALS ENGINEERING LABORATORY is verified and found to be matching/not matching with the stock register maintained in the lab on 26 April 2024 (AN)


Other observations in the lab are:

Invoice File	: Available/Not Available
List of Experiment	: Available/Not Available
Code of Conduct	: Available/Not Available
Notice Board	: Available/Not Available
Lab Manuals	: Available/Not Available
Login Register	: Available/Not Available
Sample Records	: Available/Not Available
Service register	: Available/Not Available
Ambience of the Lab	: Available/Not Available


 Signature of the verifying Officer 1


 Signature of the verifying Officer 2


 Head of the Department


 Prof. Dr. Potluri Srikar
 Head of the Department

Internet Facility in the campus:

Internet Services	YES
Name of the Internet provider	VAINAVI
Available bandwidth	1024 MBPS
Access speed	VERY GOOD
Availability of Internet in an exclusive lab	YES
Availability in most computing labs	YES
Availability in departments and other units	YES
Availability in faculty rooms	YES
Institute's own e-mail facility to faculty/students	YES
Security/privacy to e-mail/Internet users	YES

After completion of audit, documents and observations are signed by the Class In charges, Lab In charges and Head of the Department.

Student feedback report analysis and action taken, lab infrastructure, lesson plans of each subject, record of student mentoring, R& D activities. Due record of the same is maintained in the department.

A sample Academic Audit Report of the Department for the Academic Year 2024-25 is shown below:

ACADEMIC AUDIT REPORT		
ACADEMIC YEAR: 2024-25		
S. No	Name of the Department	Mechanical Engineering
1	No. of UG Programmes	01
2	No. of PG Programmes	01
3	No. of Students enrolled for UG Programme:	30
4	No. of Students enrolled for PG Programme:	18
5	No. of Full Time Permanent Faculty	22
6	No. of temporary/visiting/part-time/contractual Faculty	02
7	Curriculum Revisions Info	R24, R22, R20
8	Research Publications: International/National	28
9	International Conferences Organized	01
10	Workshops Organized	03
11	Industrial Visits Organized	02
12	No. of Department Library Printed Books	100
13	Web resources CDs Added	100
14	e-Books Added	120
15	No. of Faculty using ICT and PPTs	22
16	New Equipment & Infra-structure Added	02
17	Strengths	<ul style="list-style-type: none"> UGC Autonomous Organizing International Conferences Every year MOU's with National and International universities Research Infrastructure Project Laboratories Active collaboration with industries Regularly conducting knowledge development programs such as Workshops, Seminars, FDPs, Research Scholar summit etc. MSME-Center for Innovation and Incubation Entrepreneurship facility Students Academic Performance Research projects (AICTE, MSME, industries)
18	Weakness	<ul style="list-style-type: none"> Sponsored research projects 100% Results
19	Recommended Actions	<ul style="list-style-type: none"> To identify weak students and conduct remedial tutorial classes. To organize workshops and FDPs Association with Industries Applying for Patents, Research Projects Increasing no. of paper publications by the faculty members in Scopus indexed papers.

In addition to internal academic auditing, college has got ISO 9008-2015 Certification for all the departments where the team who visited the college has thoroughly checked all academic related files, laboratory files, library files, student related given the certification which is shown below.



7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

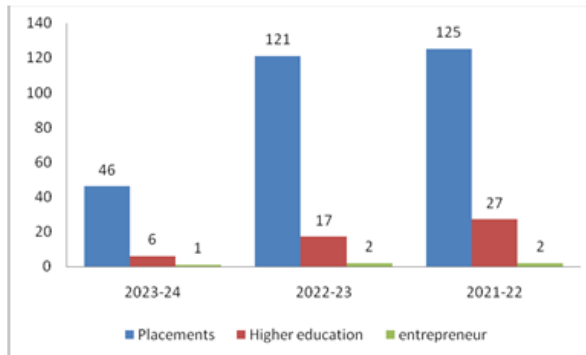
Total Marks 10.00

Assessment is based on improvement in:

- Placement: number, quality placement, core industry, pay packages etc.
- Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in Premier institutions
- Entrepreneurs

Item	2023-24	2022-23	2021-22
Total No. of Final Year Students	62	174	186
No. of students placed in companies or Government Sector	46	121	125
No. of students admitted to higher studies with valid qualifying scores (GATE, GRE, GMAT etc.)	6	17	27
No. of students turned entrepreneur in engineering / technology (z)	1	2	2
Total	53	140	154

Improvement in Placement, Higher Studies and Entrepreneurship graph is shown in below



LIST OF PLACEMENTS, HIGHER STUDIES, ENTREPRENEURS FOR THE ACADEMIC YEAR : 2023-24				
S.No	Name of the Student	H.T.No	Name of the Employer	Appointment Letter Reference No. with date
1	BHUKYA GANESH NAYAK	ZON31A0351	ITC LIMITED	ITC LIMITED/EMAIL/28/08/2024
2	MOHAMMAD IBRAHIM	ZON31A0359	ITC LIMITED	ITC LIMITED/EMAIL/28/08/2024
3	BHUKYA, NAVEEN	ZON31A0306	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2024
4	SHANAMUKHI HEMANTH	ZON31A0318	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2025
5	K.SUJETH	ZON31A0321	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2026
6	BARIGE RAVI KUMAR	ZON31A0350	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2027
7	THOTLA ARUNA	Z1N35A0306	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2028
8	SAHANI DEEPAK	ZON31A0342	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2028
9	CHOUDARI RAKESH	ZON31A0353	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2027
10	DEVI REDDY SUJITH REDDY	ZON31A0310	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2027
11	ALLAM NITHIN REDDY	ZON31A0301	TVS Speedram Fasteners Ltd	CN032406315
12	ANUGUBARI VENKATESHWAR REDDY	ZON31A0302	TVS Speedram Fasteners Ltd	CN032406331
13	DHARAVATH ABHIDAS	ZON31A0311	TVS Speedram Fasteners Ltd	CN032406247
14	MARUTHI VAMSHI KRISHNA	ZON31A0333	TVS Speedram Fasteners Ltd	CN032406987
15	NARADALA RAKESH	ZON31A0335	TVS Speedram Fasteners Ltd	CN032406149
16	NEELAM KARTHIK	ZON31A0336	TVS Speedram Fasteners Ltd	CN032406978
17	POOJAM DEEPAK	ZON31A0339	TVS Speedram Fasteners Ltd	CN032406143
18	PRAJAPATI ALOK KUMAR	ZON31A0340	TVS Speedram Fasteners Ltd	CN032406150
19	SANGATI SAI KUMAR REDDY	ZON31A0343	TVS Speedram Fasteners Ltd	CN032406348
20	BAKKANOLLA GOVARDHAN	ZON31A0349	TVS Speedram Fasteners Ltd	CN032406148
21	KALLURI TARUN TEJA	ZON31A0356	TVS Speedram Fasteners Ltd	CN032406188

22	MANGALI SANDEEP KUMAR	ZON31A0308	TVS Speedrom Fasteners Ltd	CN032406687
23	PEDDAGOLLA SRISHYLA	Z1N35A0301	TVS Speedrom Fasteners Ltd	CN032412013
24	SAI AKHIL MAROJU	Z1N35A0303	TVS Speedrom Fasteners Ltd	CN032406265
25	THALLAPALI NAVEEN	Z1N35A0304	TVS Speedrom Fasteners Ltd	CN032406136
26	THATIKANTI ADITHYA	Z1N35A0305	TVS Speedrom Fasteners Ltd	CN032406148
27	PATHLAVATH VITTAL	ZON31A0338	Foxconn	FOXCONN /EMAIL/20/02/2024
28	RASOORI SRAVANI	Z1N35A0302	Foxconn	FOXCONN /EMAIL/20/02/2025
29	ATHRAM RAMAKRISHNA	ZON31A0303	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2024
30	ATTHI SAIKRAN	ZON31A0304	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2025
31	BOLLAPELLI VIVEK	ZON31A0308	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2026
32	BONEPALLY SAHITH REDDY	ZON31A0309	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2027
33	VERIPETTI VAMSHI	ZON31A0320	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2028
34	KETHAVATH SRINIVAS	ZON31A0323	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2029
35	MARRI MANOJ KUMAR REDDY	ZON31A0331	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2030
36	MARUKONDA SHIVASAI	ZON31A0332	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2031
37	SEELAM NARENDAR	ZON31A0344	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2032
38	THOKALA NARESH	ZON31A0346	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2033
39	BOGA SANTHOSH	ZON31A0352	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2034
40	DAIDA JEEVAN	ZON31A0354	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2035
41	MAMMAI ANIRUDH	ZON31A0357	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2036
42	MOHAMMED IMRAN	ZON31A0360	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2037
43	LAYAKAR RUGVEDH BOULA	ZON31A0327	CADFEM	CADFEM/EMAIL/22/05/2024
44	SUDIVENUKA MANIDEEP	ZON31A0319	Aapara, Spaces Private Limited	Aapara, Spaces Private Limited/EMAIL/07/05/2024
45	ANUGUBARI VENKATESHWAR REDDY	ZON31A0302	WRIGHT STATE UNIVERSITY	SEVIS ID: N0035456469
46	LAVUDYA SRINIVAS	ZON31A0326	University of Cincinnati	SEVIS ID: N0035344389

47	BOBBILLAPATI SURENDAR	ZON31A0307	AERIES	AERIES/EMAIL/09/01/2025
48	S PRATHIK	ZON31A0312	IT SYNTAX	IT SYNTAX/EMAIL/15/07/2024
49	GOUNDLA VINOD KUMAR	ZON31A0355	University of North Carolina at Charlotte	SEVIS ID: N0035445897
50	KANAKURTI SANJAY	ZON31A0322	University of North Carolina at Charlotte	SEVIS ID: N0035392837
51	RAMINENI BHOGENDHRANATH	ZON31A0341	Central Michigan University	SEVIS ID: N0035431824
52	KOTARI SREE NIKHIL	ZON31A0345	TATA ADVANCE SYSTEMS	TBAU/ L /289
53	BAKKANOLLA GOVARDHAN	ZON31A0349	NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA	224ME7018

LIST OF PLACEMENTS,HIGHER STUDIES,EENTREPRENEURS FOR THE ACADEMIC YEAR : 2022-23				
S.No	Name of the Student	H.T.No	Name of the Employer	Appointment Letter Reference No. with date
1	ALLAM MAHITHA REDDY	19N31A0303	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
2	AMALSHAV.S	19N31A0305	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
3	ANUPOJI MANIKANTA SAI	19N31A0310	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
4	BANDARU SRINIVAS	19N31A0317	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
5	BANDI SRI MANI KANTA REDDY	19N31A0319	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
6	BHUKYA PRASHANTH	19N31A0323	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
7	BODA GURUCHARAN	19N31A0328	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
8	CHINTALA SAI TEJA	19N31A0334	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
9	CHIPPADA LEEA MANJARI	19N31A0335	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
10	D ARUN	19N31A0336	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
11	DHARAVATH TARUN	19N31A0340	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
12	DURGAM KIRAN	19N31A0344	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
13	GOWTHAM REDDY VANTA	19N31A0351	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
14	JAMI AVINASH	19N31A0359	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
15	K SAI KRISHNA RAM	19N31A0363	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
16	KASAVARAM NAVEEN RAO	19N31A0364	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
17	KESIREDDY SANDEEP REDDY	19N31A0367	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
18	KONDA PAVAN KUMAR	19N31A0370	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
19	KONERU JHARAN CHAUDARY	19N31A0371	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
20	MANDA AMRUTH REDDY	19N31A0381	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
21	MARRAPU AAKASH	19N31A0385	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
22	MALOTHU GIREESHWAR NAYAK	19N31A0391	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
23	NAGULA YASHWANTH SAI	19N31A0397	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
24	PULLANNAGARI NAVEEN REDDY	19N31A03A4	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
25	PATLOLLA VIGNAN SAGAR REDDY	19N31A03B1	ACCENTURE	ACCENTURE/EMAIL/23/01/2023

26	PESARA VIJAY REDDY	19N31A03B5	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
27	SIDDANA RAKESH	19N31A03D1	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
28	SUNKARI SANJAY	19N31A03D3	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
29	T SURESH	19N31A03D5	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
30	THATIKRINDI BINESH	19N31A03D8	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
31	VELAPULA SUNIL	19N31A03E1	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
32	KODIGANTI SAI KONDAMA RAJU	20N35A0309	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
33	MOHAMMED SAMEER ALI	20N35A0316	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
34	MANIVARDHAN GOUD PATEL	20N35A0319	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
35	ORISI YUVARAJ	19N31A03A3	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
36	ARUGAPALLY SAHANAND	19N31A0313	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
37	B HARI KRISHNA	19N31A0314	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
38	BHUKYA NAGENDHAR	19N31A0322	COGNIZANT	3627842
39	BILLAIPUR MALLESY YADAV	19N31A0326	COGNIZANT	3624865
40	BOLISHETTI VAMSHI KRISHNA	19N31A0330	COGNIZANT	3623654
41	BUDARAPU MANOHAR	19N31A0332	COGNIZANT	3625242
42	DADE KISHORE	19N31A0337	COGNIZANT	3623530
43	DHUMAL PRASAD	19N31A0341	COGNIZANT	3623532
44	DONTHIREDDY DINAKAR REDDY	19N31A0342	COGNIZANT	3623945
45	DULAM VISHNU VARDHAN GOUD	19N31A0343	COGNIZANT	3622643
46	DUVVA DEVANG	19N31A0345	COGNIZANT	3623714
47	GUGULOTH MAHENDAR	19N31A0352	COGNIZANT	3629969
48	IMMIDISETTI SUNEEL	19N31A0358	COGNIZANT	3625487
49	JOHN YOSHIT KONDURU	19N31A0372	COGNIZANT	3623895
50	KUTURU NIKHIL KUMAR	19N31A0375	COGNIZANT	3631055
51	LAGISHETTY MAHENDER	19N31A0376	COGNIZANT	3623821
52	M YOGI RAJA GOVIND	19N31A0384	COGNIZANT	3625782
53	MYLAVARAPU GANESH KUMAR	19N31A0394	COGNIZANT	3629862

54	NEELA PRASHANTH	19N31A0399	COGNIZANT	3622633
55	NENAVATH VINAY NAYAK	19N31A03A2	COGNIZANT	3625398
56	PAIDIMALLA SAI	19N31A03A8	COGNIZANT	3625478
57	PARSHA VIJAY KUMAR	19N31A03A9	COGNIZANT	3623395
58	PEDDA GOLLA HANMANTHU	19N31A03B2	COGNIZANT	3625694
59	PRATHAPANI SAI DINESH	19N31A03B8	COGNIZANT	3623469
60	PINTU SHARMA	19N31A03C2	COGNIZANT	3623648
61	ROHAN S MUDAY	19N31A03C4	COGNIZANT	3649189
62	S SHANMUKHA RAJ	19N31A03C7	COGNIZANT	3623840
63	SYED AFZAL	19N31A03D4	COGNIZANT	3623245
64	VULLIGADDA RAKESH	19N31A03E5	COGNIZANT	3629972
65	YEJU MANIKUMAR	19N31A03E6	COGNIZANT	3625874
66	EASHWAR GOPAGANI	20N35A0306	COGNIZANT	3623142
67	MALLAM SANTOSH	20N35A0312	COGNIZANT	3623672
68	MALLISHETTI PAVAN KUMAR	20N35A0313	COGNIZANT	3626839
69	VELPULA SRI BHAVYA	20N35A0320	COGNIZANT	3623524
70	AKULA SHASHANK	19N31A0302	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
71	ANGOTHU CHANDRA HASAN	19N31A0306	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
72	BANDARU VAMSHI KRISHNA	19N31A0318	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
73	BIRADAR MACHENDER	19N31A0327	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
74	BODDU ADARSH KUMAR	19N31A0329	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
75	BUNGA PAVAN KUMAR	19N31A0333	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
76	DUVVURI PAVAN ADITYA	19N31A0346	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
77	GALLA PAVAN KUMAR	19N31A0348	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
78	GATTU MANOJ KUMAR	19N31A0349	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
79	GOPU PRUTHVI TEJA	19N31A0350	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
80	GUGULOTH SANDEEP	19N31A0354	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
81	GURAJALA RAVI	19N31A0355	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
82	JATAVATH RAIKUMAR	19N31A0360	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023

83	KATIKAREDDY DINESH KUMAR REDDY	19N31A0366	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
84	BHUKYA KIRITI NAIK	19N31A0321	TCS NINZA	TCSL/DT20223080285/Hyderabad
85	EDUBILLI MOHAN SAI	19N31A0347	TCS NINZA	TCSL/DT20218983107/Hyderabad
86	KASTHURI SAI KIRAN REDDY	19N31A0365	TCS NINZA	TCSL/DT20223109945/Hyderabad
87	MOHAMMED KHADEER	19N31A0390	TCS NINZA	TCSL/DT20223159852/Hyderabad
88	PEMMARAJU NARAYANA NANDA KISHORE	19N31A0383	TCS NINZA	TCSL/DT20223073769/Hyderabad
89	SADHU SAI TARUN	19N31A03C9	TCS NINZA	TCSL/DT20229870803/Hyderabad
90	THOTA SATHISH	19N31A03D9	TCS NINZA	TCSL/DT20223065450/Hyderabad
91	ABDULLAH AHMED	19N31A0301	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
92	ANKOLLA RAHUL	19N31A0308	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
93	AQIB AHMED KHAN	19N31A0311	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
94	BALAM PAVAN SRI SAI	19N31A0315	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
95	DAMMANNAGARI SAIKAMAL GOUD	19N31A0338	Central Michigan University	Central Michigan University/EMAIL/03/05/2024
96	DARSI VINAY	19N31A0339	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
97	GUGULOTH RAJESH	19N31A0353	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
98	BHIKYA RAJESH	19N31A0373	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
99	KUMPATI BHAGATH SINGH	19N31A0374	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
100	LAUDYA NITHISH NETHRA	19N31A0377	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
101	LUNSAVATH RAMDAS	19N31A0378	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
102	M SHIVA SHANKER GOUD	19N31A0379	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
103	MAGUNURI HENRY BHARGAV	19N31A0380	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
104	MOHAMMAD IRFAN	19N31A0388	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
105	MOHAMMED KAMRAN AHMED	19N31A0389	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
106	MUSHNABOINA AKHILESH GOUD	19N31A0392	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
107	MOTHE SANDEEP	19N31A0393	Central Michigan University	SEVIS ID: N0035771303
108	NAGAMALLA AJAY KUMAR	19N31A0395	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
109	NALLANTHIGHAL SRI SAI AVINASH IYENGAR	19N31A0398	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023

110	PEDHODI NEHANTH REDDY	19N31A03A5	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
111	PADALA DILIP	19N31A03A6	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
112	PASIKE HARSHA VARDHAN REDDY	19N31A03B0	SUTHERLAND	SUTHERLAND/EMAIL/20/12/2023
113	PENDAM VARUN	19N31A03B4	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
114	PITHANI GYANESH BABU	19N31A03B6	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
115	POTTURU SAI VENKATA HARSHITH	19N31A03B7	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
116	R YOUNVARAJ	19N31A03C0	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
117	RAMOJI SAKIRAN	19N31A03C3	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
118	RUKAVATH RAJKUMAR	19N31A03C5	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
119	SHARMA SHASHI KIRAN	19N31A03C8	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
120	SUNKARI AKSHAY	19N31A03D2	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
121	TANNIRU VAMSHI RAJ	19N31A03D6	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
122	THANIKONDA NIKHIL CHOWDARY	19N31A03D7	Central Michigan University	SEVIS ID: N0035771303
123	VANKARE BHANUPRABHAS	19N31A03E0	Central Michigan University	SEVIS ID: N0035753476
124	VODAPATHI RAMANA	19N31A03E4	Central Michigan University	SEVIS ID: N0035761689
125	AAVITI SHIVA SHANKAR	20N35A0301	Rowan University	Rowan Banner ID: 916472365
126	ARKUTI SRAVAN KUMAR	20N35A0302	Rowan University	Rowan Banner ID: 916472366
127	CHAMANATHULA NITHISHA	20N35A0304	Rowan University	Rowan Banner ID: 916472367
128	CHERIPALLY MANOJ KUMAR	20N35A0305	Rowan University	Rowan Banner ID: 916472368
129	GURRAPU KARTHIK	20N35A0308	Central Michigan University	SEVIS ID: N0035776547
130	KUMMARI RAKESH	20N35A0310	Arizona State University	ID number: 1230884574
131	MALE ANUSHA	20N35A0311	Arizona State University	ID number: 1230846598
132	MALYALA VIJAY KUMAR	20N35A0314	Arizona State University	ID number: 1230885478
133	MARTHAND RAMESH	20N35A0315	Arizona State University	ID number: 1230890749
134	MYLA GUINNESS KUMAR	20N35A0318	Entrepreneur	Entrepreneur
135	AREM KRUTHIK	19N31A0312	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
136	GODUGU RACHANA	20N35A0307	ACCENTURE	ACCENTURE/EMAIL/23/01/2023

137	BATTU PAVAN TEJA	19N31A0361	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
138	ALWAL BHARATH KUMAR	19N31A0304	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
139	BILLA SAI DEEKSHA REDDY	19N31A0325	ACCENTURE	ACCENTURE/EMAIL/23/01/2023
140	K KARTHIK	19N31A0362	ACCENTURE	ACCENTURE/EMAIL/23/01/2023

LIST OF PLACEMENTS,HIGHER STUDIES,ENTREPRENEURS FOR THE ACADEMIC YEAR : 2022-21				
S.N o	Name of the Student	M.T.No	Name of the Employer	Appointment Letter Reference No. with date
1	ANNAM VINAY	18N31A0306	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
2	B J ISAC ABRAHAM PAUL	18N31A0310	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
3	BANOTHU GOPIKRISHNA	18N31A0319	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
4	BHEEMANADULA SAI TEJA	18N31A0323	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
5	BODAPATI VENKATA RAJESWARA SURYATEJA	18N31A0328	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
6	BONDLA ASHOK	18N31A0329	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
7	BETHI ANKSHA	18N31A0322	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
8	ESLAVATH MUNESH	18N31A0352	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
9	KONDA SAKETH	18N31A0387	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
10	MADIKONDA SAI DEEPAK	18N31A0398	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
11	RENUKUNTLA SHIVA RAJ	18N31A03D8	ACCENTURE	ACCENTURE/EMAIL/25/03/2022
12	ATTHE ASHOK	18N31A0307	COGNIZANT	COGNIZANT/EMAIL/19/01/2022
13	AVIDI GIRISH VARMA	18N31A0308	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
14	BADAI MOHAMMAD ADIL	18N31A0313	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
15	BANOTH GANESH	18N31A0318	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
16	CHAGANTI HASWANTH	18N31A0333	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
17	CHANDAPURAM SAI BRUNDA	18N31A0334	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
18	CHINTAKINDI VAMSHIVARDHA N REDDY	18N31A0337	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
19	CHINTHOJU HARSHA VARDHAN	18N31A0338	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
20	D HRISHYENDHRA GOUD	18N31A0340	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
21	DHARAVATH JAGADEESH	18N31A0346	COGNIZANT	COGNIZANT/EMAIL/17/01/2022
22	ESLAVATH SRIDHAR NAYAK	18N31A0353	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
23	ELPULA ROHIT KUMAR	18N31A0350	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
24	GAJJALA SHIVA SAI	18N31A0357	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
25	GARAGA VAMSHI	18N31A0359	COGNIZANT	COGNIZANT/EMAIL/18/01/2022

	KRISHNA			
26	GOPALAM BADRI NATH	18N31A0360	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
27	JANAPAREDDY ARAVIND	18N31A0372	COGNIZANT	COGNIZANT/EMAIL/29/01/2022
28	KAMMARI SAMANTH CHARY	18N31A0379	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
29	KANCHAM MADHAVI	18N31A0380	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
30	MOKU VINAYKUMAR REDDY	18N31A03A9	COGNIZANT	COGNIZANT/EMAIL/19/01/2022
31	MUTHA RANJITH KUMAR	18N31A03B2	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
32	NELLI VEERENDAR	18N31A03C0	COGNIZANT	Superset ID: 1580322
33	SANAPALA SAI VENKAT	18N31A03E1	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
34	SANJEEV KUMAR	18N31A03E3	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
35	SENAPATI SRITEJA	18N31A03E5	COGNIZANT	COGNIZANT/EMAIL/18/01/2022
36	SAI JEETHENDRA V	18N31A03G5	COGNIZANT	COGNIZANT/EMAIL/19/01/2022
37	BAIRY BHARATHWAJ	19N35A0303	COGNIZANT	Superset ID: 1553336
38	KOLAKANI SIRICHANDANA	19N35A0308	COGNIZANT	Superset ID: 1570372
39	RAVULA GANESH	19N35A0314	COGNIZANT	COGNIZANT/EMAIL/29/01/2022
40	ABHISHEK KALE	18N31A0301	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
41	AJMEERA SAI TEJA	18N31A0302	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
42	DAMERA RAJ KUMAR	18N31A0342	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
43	LAGADAPATI DOWTHYAKSAI	18N31A0395	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
44	MENDE RISHI	18N31A03A6	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
45	MOHAMMED AYAANUDDIN	18N31A03A7	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
46	RAMAVATH SAIKUMAR	18N31A03D4	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
47	RAVURI PAVAN KUMAR	18N31A03D5	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
48	SHAIK WASEEM AKRAM	18N31A03E6	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
49	SHETTI SAGAR	18N31A03E7	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
50	SUNKARI MANOJ KUMAR MUDHIRAJ	18N31A03F3	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
51	THOTAKURI VAMSHI	18N31A03G1	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
52	VANAPARTHY RAGHUCHARAN	18N31A03H0	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022

53	AKULA SATHISH	19N35A0301	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
54	SOMIREDDY SATHWIK REDDY	18N31A03E9	Global Logic	GLOBAL LOGIC/EMAIL/16/02/2022
55	BAGAM SANDEEP	18N31A0315	HCL	HCL/EMAIL/10/02/2022
56	DAMERA VENKAT	18N31A0343	HCL	HCL/EMAIL/10/02/2022
57	KOTAMARTHI VISHNUVARDHAN	18N31A0391	HCL	HCL/EMAIL/10/02/2022
58	MUKKAGALLA SURYATEJA	18N31A03B1	HCL	HCL/EMAIL/10/02/2022
59	SANDEEP NAIDU THANDRANGI	18N31A03E2	HCL	HCL/EMAIL/10/02/2022
60	TAMMALI SAI KIRAN	18N31A03F7	HCL	HCL/EMAIL/10/02/2022
61	VELDOI SAI PRAKASH	18N31A03H3	HCL	HCL/EMAIL/10/02/2022
62	BADALA SUKANYA	19N35A0302	HCL	HCL/EMAIL/10/02/2022
63	JEGGARI VENKAT RAM REDDY	19N35A0305	HCL	HCL/EMAIL/10/02/2022
64	TIPPANA RAJESH	18N31A03G2	HCL	HCL/EMAIL/10/02/2022
65	M BANAKA	19N35A0309	HCL	HCL/EMAIL/10/02/2022
66	MALOTH RAVINDAR	19N35A0310	HCL	HCL/EMAIL/10/02/2022
67	PITTA SADEEP	19N35A0313	HCL	HCL/EMAIL/10/02/2022
68	SABHAVATH NAVEEN	19N35A0315	HCL	HCL/EMAIL/10/02/2022
69	B SAI MOHAN	18N31A0311	The Newschool	The Newschool/EMAIL/10/11/2022
70	BOURISHETTY SAI SANTOSH	18N31A0330	The Newschool	The Newschool/EMAIL/10/11/2022
71	GUTTALA SUBASH	18N31A0368	The Newschool	The Newschool/EMAIL/10/11/2022
72	HRUSHIKESH REDDY VAJRALA	18N31A0370	The Newschool	The Newschool/EMAIL/10/11/2022
73	KATROTH JAI SINGH	18N31A0385	The Newschool	The Newschool/EMAIL/10/11/2022
74	SUTHAR DEEPAK KUMAR	18N31A03F4	The Newschool	The Newschool/EMAIL/10/11/2022
75	AYMAN MOHAMMAD IBRAHIM	18N31A0309	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
76	M ADITHYA SRINIVAS	18N31A0396	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
77	MANCHAL PRASHANTH REDDY	18N31A03A1	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
78	NEELAM SAI PRANEETH	18N31A03B9	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
79	NARADASU GOKUL	18N31A03B7	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
80	PASULA VAMSHI KRISHNA	18N31A03C5	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022

81	ROHIT KUMAR	18N31A03D9	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
82	YAGGADI VENKAT SAI	18N31A03H6	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
83	YATHAM RAHUL REDDY	18N31A03H8	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
84	CHEPURI SHRANI	19N35A0304	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
85	POTHULURI VEERABRAMA SAI VIDHYA	19N35A0312	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
86	VESHALA RAKESH	19N35A0318	MEDIAMINT	MEDIAMINT/EMAIL/01/02/2022
87	DHARAVATH DHANUSH NAIK	18N31A0345	University of north Texas	Student ID: 12147298
88	GADDAM DEEPIKA	18N31A0356	University of north Texas	Student ID: 12147257
89	GANJI SAI SUMANTH	18N31A0358	University of north Texas	Student ID: 12148547
90	MOHAMMED OWAIS	18N31A03A8	Glyndwr University	Glyndwr University/EMAIL/19/08/2022
91	T NITISH KALYAN	18N31A03F6	Glyndwr University	Glyndwr University/EMAIL/19/08/2022
92	VADTHYA SRIKANTH	18N31A03G8	Glyndwr University	Glyndwr University/EMAIL/19/08/2022
93	T AKASH	19N35A0317	Glyndwr University	Glyndwr University/EMAIL/19/08/2022
94	VEERLA SHASHI VARDHAN	18N31A03H2	California state University	ID: 301063254
95	Y HARSHA VARDHAN REDDY	18N31A03H5	California state University	ID: 301043245
96	G NAVEEN REDDY	18N31A0354	UMBC	SEVIS ID: N0032968954
97	JUNNUTHULA ASHRITH REDDY	18N31A0373	UMBC	SEVIS ID: N0032968810
98	Maddula Naveen reddy	18N31A0397	UMBC	SEVIS ID: N0032968805
99	MADIRAJU KAVITHA	18N31A0399	UMBC	SEVIS ID: N0032968254
100	NITHIN REDDY TUMMALA	18N31A03C1	UMBC	SEVIS ID: N0032968907
101	PASPULA VISHAL YADAV	18N31A03C4	UMBC	SEVIS ID: N0032965478
102	PINUMALLA SANKEERTH	18N31A03E4	Cleveland state university	Cleveland state university/EMAIL/23/04/2022
103	TAMMINANI PRAMOD SAI	18N31A03F8	Cleveland state university	Cleveland state university/EMAIL/25/04/2022
104	KADARI ADITYA UDAY KUMAR	19N35A0307	University of Greenwich	University of Greenwich/13/09/2022
105	BHUKYA SAMPATH	18N31A0325	University of Greenwich	University of Greenwich/13/09/2022
106	PABBOJI LIKITH	18N31A03C3	University of	University of

	KUMAR		Greenwich	Greenwich/13/09/2022
107	BADAL KUMAR NATHSHARMA	18N31A0314	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
108	BANOTHU SHANKAR	18N31A0320	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
109	DANDU SAI KUSHAL VARMA	18N31A0344	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
110	GUDLA RAKESH	18N31A0364	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
111	KANCHARLA HARI PAVAN	18N31A0381	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
112	KASALA SAMPATH GOUD	18N31A0383	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
113	NEELAM SAI KRISHNA	18N31A0388	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
114	NAMBURI NIKHIL	18N31A0386	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
115	PENUMALA SAI MAHESH	18N31A03C7	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
116	POTHARAJU NIRANJAN	18N31A03D1	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
117	SAJJANAPU BHARATH KUMAR	18N31A03E0	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
118	SOLANKI HIRALAL	18N31A03E8	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
119	SUGITHI CHENNULU	18N31A03F2	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
120	T GANESH	18N31A03F5	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
121	V ANAND NAIK	18N31A03G4	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
122	VADLA AKASH	18N31A03G6	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
123	VADLAMUDI SRI RAM	18N31A03G7	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
124	FAHAD HUSSAIN	18N31A03J1	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
125	JUVVI SUNIL KUMAR	19N35A0306	SUTHERLAND	SUTHERLAND/EMAIL/16/11/2022
126	KUNTAMALLA SHIVAKUMAR	18N31A0392	TCS	TCS/Email/12-11-2021
127	KUSUMA MANI KANTA REDDY	18N31A0393	TCS	TCS/Email/12-11-2021
128	PORANDLA UDAY	18N31A03D0	TCS	TCS/Email/12-11-2021
129	UPPARI THARUN KUMAR	18N31A03G3	TCS	TCS/Email/12-11-2021
130	SRIRAM MANOHAR	19N35A0316	TCS	TCS/Email/12-11-2021
131	GYANMOTE AKSHAY	18N31A0369	WIPRO	WIPRO/EMAIL/18/06/2022
132	B SHIVA KUMAR	18N31A0312	WIPRO	WIPRO/EMAIL/18/06/2022
133	BAINDLA PRASHANTH KUMAR	18N31A0316	WIPRO	WIPRO/EMAIL/18/06/2022
134	GOPALDAS HARSHA VARDHAN	18N31A0361	WIPRO	WIPRO/EMAIL/18/06/2022
135	GUJJULA SAI TEJA	18N31A0365	WIPRO	WIPRO/EMAIL/18/06/2022
136	JAKKAMSETTI	18N31A0371	WIPRO	WIPRO/EMAIL/18/06/2022

	NEHEMAIH			
137	KALLURI CHANDRA MOULI	18N31A0378	WIPRO	WIPRO/EMAIL/18/06/2022
138	KONDAMEEDA VENKATESWARL U	18N31A0389	WIPRO	WIPRO/EMAIL/18/06/2022
139	MALCHI RICHARD	18N31A03A0	WIPRO	WIPRO/EMAIL/18/06/2022
140	MANCHANPALLY PAVANKUMARG OUD	18N31A03A2	WIPRO	WIPRO/EMAIL/18/06/2022
141	MEDIKONDA VISHNU VARDHAN	18N31A03A5	WIPRO	WIPRO/EMAIL/18/06/2022
142	MOOD NARAYANA CHAIWHAN	18N31A03B0	WIPRO	WIPRO/EMAIL/18/06/2022
143	NALLAVENI SHIVATEJA	18N31A03B5	WIPRO	WIPRO/EMAIL/18/06/2022
144	P SURAJ	18N31A03C2	WIPRO	WIPRO/EMAIL/18/06/2022
145	PERECHARLA NAGA PAVAN VARMA	18N31A03C8	WIPRO	WIPRO/EMAIL/18/06/2022
146	PITTALA SAI VAMSHI	18N31A03C9	WIPRO	WIPRO/EMAIL/18/06/2022
147	THARRA RAMA KRISHNA	18N31A03F9	WIPRO	WIPRO/EMAIL/18/06/2022
148	YAMMALA SHIVA KUMAR	18N31A03H7	WIPRO	WIPRO/EMAIL/18/06/2022
149	VALLAPUDASU RAJKUMAR	18N31A03G9	WIPRO	WIPRO/EMAIL/18/06/2022
150	ALAGALA ANIL	18N31A0303	ENTREPRENEU R	ENTREPRENEUR
151	AMANDU PRAHAV	18N31A0304	ENTREPRENEU R	ENTREPRENEUR
152	BODA VENKATESH	18N31A0327	WIPRO	WIPRO/EMAIL/18/06/2022
153	CHILAKAMARTHI RUTHWIK	18N31A0336	WIPRO	WIPRO/EMAIL/18/06/2022
154	GOUNDLA SAI BHARATH GOUD	18N31A0362	WIPRO	WIPRO/EMAIL/18/06/2022

7.4 Improvement in the quality of students admitted to the program (20)

Total Marks 20.00

Item		2024-25	2023-24	2022-23
National Level Entrance Examination	No of students admitted	0	0	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others	No of students admitted	30	30	60
	Opening Score/Rank	42305	51025	63245
	Closing Score/Rank	142355	155023	152355
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	3	3	6
	Opening Score/Rank	58	104	762
	Closing Score/Rank	1544	1520	13815
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		58.62	44.52	40.26

8 FIRST YEAR ACADEMICS (50)**Total Marks 47.18****8.1 First Year Student-Faculty Ratio (FYSFR) (5)****Total Marks 5.00**

Please provide First year faculty information considering load

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nature Of Association (Regular / Contract)	Date Of leaving(In case Currently Associated is 'No')
							CAY	CAYm1	CAYm2			
DR. V. MADHU	ADAPV6965C	M.Sc. and PhD	27/12/2011	Physics	Professor	13/09/2010	100	100	100	Yes	Regular	
DR. KANDHAC	AUCPK3642A	M.Sc. and PhD	21/04/2017	Physics	Professor	09/02/2004	100	100	100	Yes	Regular	
DR. SRIKANTH	AYTPT1481B	M.Sc. and PhD	14/10/2019	Physics	Associate Professor	11/02/2020	100	100	100	Yes	Regular	
DR. P. SRINIVAS	CJHPS8339A	M.Sc. and PhD	06/08/2016	Physics	Associate Professor	02/01/2025	100	0	0	Yes	Regular	
DR. VENGAL F	CJVPP5886M	M.Sc. and PhD	20/01/2016	Physics	Professor	02/11/2020	100	100	100	Yes	Regular	
ARCHANADEV	AXIPA7668M	M.Sc	09/11/2006	Physics	Assistant Professor	23/09/2013	100	100	100	Yes	Regular	
NARENDRA K	CPRPK2510K	M.Sc	08/09/2010	Physics	Assistant Professor	02/08/2016	100	100	100	Yes	Regular	
NISHA JHA	AICPJ1713D	M.Sc	17/04/2004	Physics	Assistant Professor	01/07/2019	100	100	100	Yes	Regular	
DR S NAGAM/	JSIPS6919D	M.Sc. and PhD	23/10/2023	Physics	Assistant Professor	14/11/2024	100	0	0	Yes	Regular	
LAVUDYA SUS	ATZPT9833G	M.Sc	28/10/2019	Physics	Assistant Professor	20/02/2020	100	100	100	Yes	Regular	
HARI KAMALA	CZLPS3426C	M.Sc	13/06/2003	Physics	Assistant Professor	28/09/2022	100	100	70	Yes	Regular	
DR. K. RAJAM	BJBPK6924L	M.Sc. and PhD	03/05/2018	Physics	Associate Professor	17/02/2024	100	40	0	Yes	Regular	
SIVA KRISHNA	AULPA3792J	M.Sc	10/09/2016	Physics	Assistant Professor	10/04/2023	100	100	0	Yes	Regular	
DR. NEERAJA	AGSPV3994L	M.Sc. and PhD	19/09/2002	Chemistry	Professor	03/01/2011	100	100	100	Yes	Regular	
DR. GANGADHAR	BNZPP8711N	M.Sc. and PhD	28/09/2018	Chemistry	Associate Professor	31/10/2022	100	100	70	Yes	Regular	

DR. A. ADITYA	AXCPA5447J	M.Sc. and PhD	28/06/2016	Chemistry	Professor	15/12/2022	100	100	50	Yes	Regular	
DR. A. ESWAR	EEEP0114P	M.Sc. and PhD	22/02/2019	Chemistry	Associate Professor	16/12/2022	100	100	50	Yes	Regular	
DR. SUBHAKA	BWUPR6847P	M.Sc. and PhD	09/08/2022	Chemistry	Assistant Professor	10/04/2023	100	100	0	Yes	Regular	
MANNEGANTI	BDAPM4346K	M.Sc	12/10/2007	Chemistry	Assistant Professor	12/07/2021	100	100	100	Yes	Regular	
SIVA NAGA RAJ	AVJPG2644N	M.Sc	27/12/2013	Chemistry	Assistant Professor	22/12/2016	100	100	100	Yes	Regular	
NAKKALA SRINIVAS	ANRPN2901P	M.Sc	02/06/2010	Chemistry	Assistant Professor	24/02/2020	100	100	100	Yes	Regular	
HASINA KHAN	CKTPP8431K	M.Sc	02/04/2010	Chemistry	Assistant Professor	22/12/2016	100	100	100	Yes	Regular	
RAJITHA DON	AYLPD8932D	M.Sc	01/04/2009	Chemistry	Assistant Professor	01/02/2017	100	100	100	Yes	Regular	
DR T NAVYA	AMQPT1339D	M.Sc. and PhD	24/08/2024	Chemistry	Assistant Professor	03/06/2024	100	0	0	Yes	Regular	
VUTHALURU SURESH	CJHPS8339A	M.Sc	03/08/1996	Physics	Associate Professor	23/09/2013	0	100	100	No	Regular	14/10/2024
V RAMU	AGQPV6136N	M.Sc	01/05/2007	Physics	Assistant Professor	01/10/2017	0	100	100	No	Regular	06/05/2024
DR. GATTI JACINTO	BURPG3774R	M.Sc. and PhD	08/08/2015	Physics	Associate Professor	03/01/2021	0	0	100	No	Regular	08/05/2023
DR N PRAKASH	BJHPP7963E	M.Sc. and PhD	05/09/2013	Chemistry	Assistant Professor	17/01/2025	100	0	0	Yes	Regular	
KUDIKALA KEERAN	EWQPK4455K	M.Sc	02/06/2014	Chemistry	Assistant Professor	22/05/2017	100	100	100	Yes	Regular	
MAMTHA JAIN	AWRPM1895J	M.Sc	05/05/2009	Chemistry	Assistant Professor	10/04/2023	100	100	0	Yes	Regular	
CHANDRASEKHAR	DXMPS4805P	M.Sc	02/03/2009	Chemistry	Assistant Professor	01/08/2013	0	0	100	No	Regular	24/06/2023
KOYYALAMUCHI	EVIPK8557D	M.Sc	03/04/2013	Chemistry	Assistant Professor	07/01/2019	0	100	100	No	Regular	30/06/2024
DR. CHANDRASEKHAR	AVTPC9977G	M.Sc. and PhD	01/05/2015	Chemistry	Professor	21/03/2022	0	0	80	No	Regular	29/06/2023

DR. NIRUPMA	ACTPL8548B	M.Sc. and PhD	21/09/2005	Chemistry	Professor	01/06/2022	0	0	100	No	Regular	04/02/2023
DR. N. VEERA	ALSPN1594P	M.A and Ph.D	25/06/2022	English	Associate Professor	19/09/2022	100	100	100	Yes	Regular	
DR. FIROJ AH	CLRPA8098J	M.A and Ph.D	16/12/2021	English	Associate Professor	20/04/2022	100	100	100	Yes	Regular	
MEKALA SHAF	BLEPM6971J	MA	09/05/2012	English	Assistant Professor	19/01/2016	100	70	100	Yes	Regular	
K S RAJASHR	AQPPR8337L	MA	31/05/2010	English	Assistant Professor	01/12/2016	100	70	100	Yes	Regular	
BANDI RAJES	AMMPB6793R	MA	12/09/2014	English	Assistant Professor	06/04/2015	70	100	70	Yes	Regular	
BONAM ANJAI	CFDPB4821E	MA	20/06/2011	English	Assistant Professor	03/08/2019	70	100	70	Yes	Regular	
PEDAVETI JUL	CDRPP5551M	MA	10/08/2010	English	Assistant Professor	20/02/2020	100	70	100	Yes	Regular	
PRIYA R KULK	CWBPK7763F	MA	07/09/2012	English	Assistant Professor	20/03/2021	70	100	70	Yes	Regular	
THORTH NAV	AQLPT2232Q	MA	05/09/2015	English	Assistant Professor	01/07/2019	100	70	100	Yes	Regular	
DR MD NASIR	ANIPH3675F	M.A and Ph.D	29/01/2025	English	Assistant Professor	02/01/2025	100	0	0	Yes	Regular	
DR. JAMIRUL	ACMPI6383C	M.A and Ph.D	10/04/2024	English	Associate Professor	28/02/2022	100	100	100	Yes	Regular	
S. SWAPNA	BIPPS4548R	MA	23/10/2006	English	Assistant Professor	10/10/2022	70	100	60	Yes	Regular	
DR PAROMITA	ARYPN8853B	M.A and Ph.D	25/05/2022	English	Assistant Professor	15/07/2024	100	0	0	Yes	Regular	
SATYAVANI V	ADFPV6791B	M.Phil	23/05/2005	English	Assistant Professor	01/06/2021	0	70	100	No	Regular	10/10/2024
venu GOPAL	BELPK2031P	MA	12/12/2010	English	Assistant Professor	16/08/2021	70	100	100	Yes	Regular	
V. TEMUZION	BNDPK6080P	MA	01/10/2012	English	Assistant Professor	15/11/2021	0	100	70	No	Regular	06/06/2024
DR K RAMYA	AQPPR0547L	M.A and Ph.D	04/10/2018	English	Assistant Professor	19/12/2016	0	100	100	No	Regular	06/06/2024

DR TARIK ANC	BJCPA6537J	M.A and Ph.D	01/11/2021	English	Assistant Professor	27/05/2022	0	0	100	No	Regular	04/05/2023
DR. E. RAJA G	AAQPE7386K	M.P.Ed and PhD	09/05/2018	pPhysical director	Associate Professor	20/09/2004	0	0	100	No	Regular	04/09/2023
DR. K. RAJESI	ANUPR7380M	M.Sc. and PhD	28/11/2018	Mathematics	Professor	28/06/2008	100	100	100	Yes	Regular	
ANOMITRA C†	ARPPP6982J	M.Sc	18/08/2018	Mathematics	Assistant Professor	16/12/2024	70	0	0	Yes	Regular	
DR. S LEKHA	ADDPL2700L	M.Sc. and PhD	04/11/2012	Mathematics	Professor	16/08/2021	100	100	100	Yes	Regular	
DR. RITUPARN	ALQPR7844E	M.Sc. and PhD	01/04/2021	Mathematics	Associate Professor	15/11/2021	100	100	100	Yes	Regular	
DR. E. TARAK	ABJPE1197L	M.Sc. and PhD	05/10/2018	Mathematics	Assistant Professor	06/02/2023	100	100	0	Yes	Regular	
DR. CH. SOMA	AFSPC0028H	M.Sc. and PhD	29/01/2025	Mathematics	Associate Professor	16/11/2020	100	100	100	Yes	Regular	
AKULA SNEHA	COGPP8977R	M.Sc	01/11/2011	Mathematics	Assistant Professor	22/02/2021	70	70	70	Yes	Regular	
D RADHA PYA	ATJPD6374J	M.Phil	12/11/2011	Mathematics	Assistant Professor	02/12/2019	70	70	70	Yes	Regular	
GOBBURI REK	AQAPG2350F	M.Sc	23/12/2002	Mathematics	Associate Professor	01/07/2013	70	70	70	Yes	Regular	
THATIGUNTLA	AGAPT0412B	M.Sc	30/03/2006	Mathematics	Assistant Professor	23/09/2013	70	70	70	Yes	Regular	
HARIKA BHUR	CDPPB5161D	M.Sc	31/07/2007	Mathematics	Assistant Professor	01/07/2015	70	70	70	Yes	Regular	
MUSTI ARUNA	ASRPM6249C	M.Sc	19/06/2012	Mathematics	Assistant Professor	04/04/2022	70	70	70	Yes	Regular	
DR. CH. CHAI†	AQEPC7071K	M.Sc. and PhD	22/06/2024	Mathematics	Assistant Professor	27/12/2022	100	100	0	Yes	Regular	
DR. SHEKHAF	ARPPP6982J	M.Sc. and PhD	25/11/2013	Mathematics	Professor	19/09/2013	0	100	100	No	Regular	16/07/2024
MR. M. NARESH	BXDPM5945B	M.E/M.Tech	28/12/2013	POWER AND INDUSTRIAL DRIVES	Assistant Professor	12/09/2022	100	100	100	Yes	Regular	
MR. K.CHAND	BYAPK0007J	M.E/M.Tech	10/12/2014	POWER ELECTRONICS	Assistant Professor	23/01/2023	100	100	100	Yes	Regular	

SAIDULU RED	AARPO3199B	M.E/M.Tech	16/01/2014	ELCTRICAL POWER SYSTEM	Assistant Professor	30/06/2014	0	80	100	No	Regular	30/12/2023
SANJEEVA RA	AJCPT6102D	M.E/M.Tech	31/12/2008	ELECTRICAL POWER SYSTEMS	Assistant Professor	11/04/2022	0	80	100	No	Regular	30/12/2023
PRAVEEN KUI	ARUPM4687Q	M.E/M.Tech	30/12/2010	POWER ELECTRONICS	Assistant Professor	11/04/2022	0	80	100	No	Regular	30/12/2023
N SUNDARAI	ALVPN1860H	M.E/M.Tech	16/10/2010	POWER SYSTEMS	Assistant Professor	02/12/2024	100	0	0	Yes	Regular	
V. ARUN SAI	BTEPV2399K	M.E/M.Tech	16/07/2021	POWER SYSTEMS	Assistant Professor	24/07/2024	100	0	0	Yes	Regular	
VAMSHI DHAN	BCMPD2183G	M.E/M.Tech	30/09/2020	POWER ELECTRONICS ENGINEERING	Assistant Professor	02/08/2024	100	0	0	Yes	Regular	
M ANUSHA	ASWPM6305N	M.E/M.Tech	05/07/2012	VLSID	Assistant Professor	05/07/2012	0	100	100	No	Regular	13/09/2024
S RAJANI	DXTPS1091A	M.E/M.Tech	08/12/2015	SSP	Assistant Professor	04/01/2016	0	100	100	No	Regular	08/07/2024
DODLA NOOT	BWZPD4909H	M.E/M.Tech	01/11/2021	ES	Assistant Professor	01/11/2021	0	100	100	No	Regular	20/06/2024
B SRUJANA	CPGPB7660Q	M.E/M.Tech	10/10/2016	SSP	Assistant Professor	13/12/2016	0	100	100	No	Regular	16/08/2024
AISHWARYA M	CNSPM3199M	M.E/M.Tech	11/07/2013	DSCE	Assistant Professor	30/07/2022	100	0	0	Yes	Regular	
KOUSHIL RED	BTYPK9070Q	M.E/M.Tech	11/10/2014	VLSID	Assistant Professor	18/04/2022	100	0	0	Yes	Regular	
RAKESH SAIR	BZIPS2958D	M.E/M.Tech	30/11/2012	POWER ELECTRONICS	Assistant Professor	31/07/2017	0	0	50	No	Regular	15/10/2022
NARESH MOT	AZAPM3103B	M.E/M.Tech	31/12/2011	POWER ELECTRONICS	Assistant Professor	05/07/2019	0	0	50	No	Regular	29/10/2022
IRUVANTI RAJ	ACVPI8298R	M.E/M.Tech	31/12/2014	POWER ELECTRONICS	Assistant Professor	10/12/2018	0	0	50	No	Regular	29/10/2022
W. NIRMALA	AUTPM7422K	M.E/M.Tech	08/01/2009	CSE	Associate Professor	01/08/2017	100	100	100	Yes	Regular	
B. SARITHA	CSSPS3622J	M.E/M.Tech	08/12/2011	CSE	Assistant Professor	21/10/2022	100	100	100	Yes	Regular	

V. SUDHA RAJ	AOTPV0220L	M.E/M.Tech	06/02/2012	CSE	Assistant Professor	06/07/2022	100	100	100	Yes	Regular	
LIKITHA GONC	BQQPG8317R	M.E/M.Tech	04/09/2014	CSE	Assistant Professor	22/08/2023	100	100	0	Yes	Regular	
SHATHARAJU	GYWPS6287K	M.E/M.Tech	27/11/2014	CSE	Assistant Professor	18/01/2017	100	100	100	Yes	Regular	
SHIVA KUMAR	AMNPT9998B	M.E/M.Tech	10/09/2017	CSE	Assistant Professor	10/10/2017	100	100	100	Yes	Regular	
KOLAPURAM	DWVPK5757C	M.E/M.Tech	06/01/2016	CSE	Assistant Professor	06/02/2016	100	100	100	Yes	Regular	
AMRUTHA MA	BZHPM2542J	M.E/M.Tech	18/10/2016	CSE	Assistant Professor	17/12/2016	100	100	100	Yes	Regular	
NAVEEN KUM.	AUVPA1146J	M.E/M.Tech	12/12/2013	CSE	Assistant Professor	01/06/2023	100	100	0	Yes	Regular	
SRILAKSHMI	AYFPK5142C	M.E/M.Tech	10/06/2015	CSE	Assistant Professor	10/07/2015	0	0	100	No	Regular	10/05/2023
K.SRIKANTH	BGSPK9315H	M.E/M.Tech	04/05/2012	CSE	Associate Professor	04/06/2012	0	0	100	No	Regular	24/06/2023
DR. M. MOHAJ	AVPPM5418G	ME/M. Tech and PhD	17/12/2020	MECHANICAL	Professor	01/03/2021	100	100	100	Yes	Regular	
Mr. S. SHAILEJ	BPAPS3946H	M.E/M.Tech	12/06/2013	CAD CAM	Associate Professor	12/07/2013	100	100	100	Yes	Regular	
Dr. SRIDHAR J	CLOPS5012F	ME/M. Tech and PhD	03/10/2024	Mechanical	Assistant Professor	12/07/2017	100	100	100	Yes	Regular	
MR. KOLIMI BI	BOKPK0997P	M.E/M.Tech	29/01/2016	Thermal Engineering	Assistant Professor	08/02/2016	100	100	100	Yes	Regular	
MR. CH. NARAJ	AYVPC1217C	M.E/M.Tech	12/01/2018	Thermal Engineering	Assistant Professor	07/06/2022	100	100	0	Yes	Regular	
MR. SAI SRIKJ	AURPV1133E	M.E/M.Tech	10/08/2016	Machine Design	Assistant Professor	27/03/2023	100	0	0	Yes	Regular	
DR. KRISHNAI	CHDPK4444A	ME/M. Tech and PhD	02/12/2020	MECHANICAL	Associate Professor	22/03/2021	100	100	100	Yes	Regular	
DR. T LOKESV	AFEPT8877M	ME/M. Tech and PhD	22/01/2016	MECHANICAL	Professor	25/06/2018	0	100	100	No	Regular	14/12/2024
DR. JADAM TH	AZTPJ3076B	ME/M. Tech and PhD	02/02/2021	MECHANICAL	Assistant Professor	17/06/2022	100	100	100	Yes	Regular	

CH SIRISHA R	ASCPC2545E	M.Sc	07/05/2012	ENVIRONMENTAL SCIENCE	Assistant Professor	18/01/2020	100	100	100	Yes	Regular	
B VASANTHA	BBQPV5107F	M.Sc	28/10/2016	ENVIRONMENTAL SCIENCE	Assistant Professor	01/11/2017	100	100	100	Yes	Regular	
DR. GIRIDHAF	AMEPC2184M	M.Sc. and PhD	02/05/2008	Physics	Associate Professor	10/04/2023	100	100	0	Yes	Regular	
DR. SRINIVAS	CBKPM5845C	M.Sc. and PhD	30/08/2011	Chemistry	Professor	19/06/2023	100	100	0	Yes	Regular	
GUJJULA NAR	BEFPG7671P	M.E/M.Tech	02/02/2015	POWER ELECTRONICS	Assistant Professor	21/11/2024	100	0	0	Yes	Regular	
NAIMISHA BO	BPEPB3676M	M.E/M.Tech	11/12/2014	VLSI and ES	Assistant Professor	06/04/2015	0	100	100	No	Regular	14/08/2024
Baggam Swath	DHLPB7100M	M.E/M.Tech	30/12/2017	POWER ELECTRONICS	Assistant Professor	25/06/2018	100	100	100	Yes	Regular	
V. HARI KRISH	ANHPV2249L	MBA	30/08/2007	MARKETING	Assistant Professor	25/10/2014	100	100	100	Yes	Regular	
P.VENKATA KF	CRHPK7836C	MBA	18/02/2013	MARKETING	Assistant Professor	10/01/2020	100	100	100	Yes	Regular	
K.SANTHOSH	AXMPA8617L	MBA	21/10/2021	FINANCE	Assistant Professor	21/10/2021	100	100	100	Yes	Regular	
NARESH DUM	BJFPD5114F	MBA	17/09/2012	HRM	Assistant Professor	10/01/2017	100	100	100	Yes	Regular	
BHARATH KUI	AHBPV5431C	MBA	11/02/2014	FINANCE	Assistant Professor	06/01/2016	100	100	100	Yes	Regular	
PADUMATI PR	EXMPP2444C	MBA	14/09/2018	MARKETING	Assistant Professor	24/02/2020	100	100	100	Yes	Regular	
GODI SUBBA I	ALTPG3955A	MBA	14/08/2008	MARKETING	Assistant Professor	28/11/2020	100	100	100	Yes	Regular	
MARIA POOJA	BECPT9962D	MBA	07/09/2019	HRM	Assistant Professor	19/02/2020	100	100	100	Yes	Regular	
E.ANVESHA	AVUPA5744L	MBA	21/05/2013	FINANCE	Assistant Professor	15/02/2021	100	100	100	Yes	Regular	
Mr. Hatkar Ran	AVNPH3600B	M.E/M.Tech	07/10/2015	POWER ELECTRONICS	Assistant Professor	19/09/2022	0	100	0	Yes	Regular	
MR. JEYAVEL	ADNPJ5944L	M.E/M.Tech	23/06/2014	MECHINE DESIGN	Assistant Professor	16/12/2021	0	0	100	No	Regular	06/10/2023

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment=(5*20)/FYSFR(Limited to Max.5)
2022-23(CAYm2)	1320	89	15	5
2023-24(CAYm1)	1320	92	14	5
2024-25(CAY)	1320	89	15	5
Average	1320	90	14	5

AverageFYSFR: 0.00

Assessment [(5 * 15) / AverageFYSFR]: 5.00

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Total Marks 4.00

Institute Marks : 4.00

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1)	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2022-23	18	58	66	4.00
2023-24	23	61	66	4.00
2024-25	25	55	66	4.00

Average Assessment: 4.00

8.3 First Year Academic Performance (10)

Total Marks 8.18

Academic Performance	CAYm1(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	7.81	8.55	8.59
Total Number of successful students(Y)	29.00	30.00	59.00
Total Number of students appeared in the examination(Z)	30.00	30.00	60.00
API [X*(Y/Z)]	7.55	8.55	8.45

Average API[(AP1+AP2+AP3)/3] : 8.18

Assessment = Average API : 8.18

8.4 Attainment of Course Outcomes of first year courses (10)

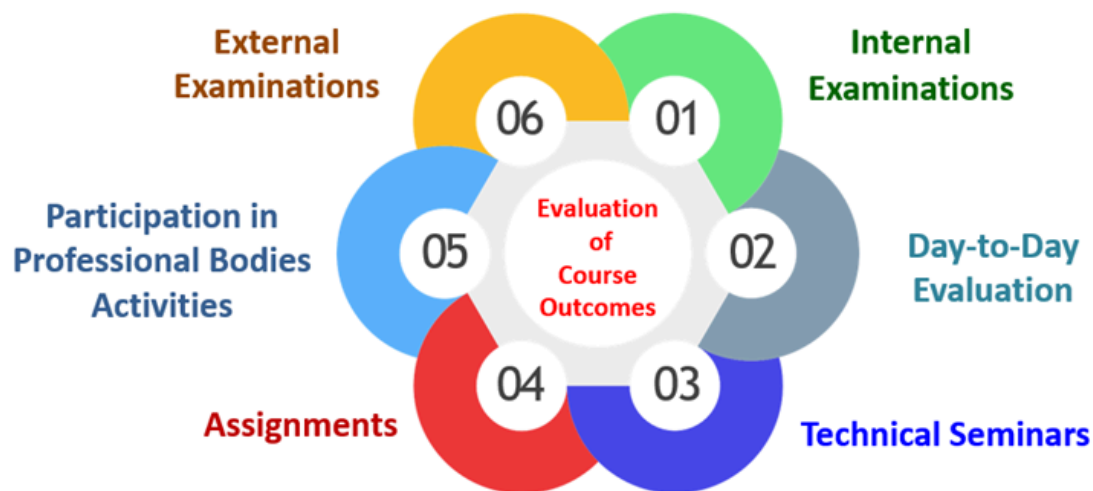
Total Marks 10.00

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Institute Marks : 5.00

Methodology:

1. Students are assessed semester-wise on the complete syllabus. This is a summative assessment technique that occurs at the end of an instructional unit or course and measures the extent to which the students have achieved the desired course outcomes.
2. Internal exams are conducted twice a semester towards formative assessments of the students. The exam comprises of both subjective questions. This helps to monitor student learning process. The feedback measured in terms of scores is used to identify areas where they are struggling; so that instructors can change their methodology of teaching according to the level of the students' IQ. Out of the two mid-term examinations, average of two is taken as their score. The test includes both short answers and long answers to allow students to fully demonstrate what they know.
3. Assignments are given to students to go deeper with the learning concepts. The knowledge they've acquired is used to create something new from it. This level of application is extremely important in learning process, so as to test the students holistically. These types of projects also give students who do not do well in their tests a chance to shine.
4. Asking students to develop projects helps the learners to spell out the concepts or techniques used with each units, the themes addressed, and hurdles faced also brings a sense of completion to the learning process. The students use the computer to become adept at using technology to express their views.
5. Assessment of Laboratory subjects will be based on the performance of students in practical examinations to fulfill the course outcomes. Viva voce is conducted with the help of few external faculty members to evaluate the students on the subject knowledge, and give the students a scope to verbally defend or put forward their views.

*Figure 8.4.1 Evaluation of Course Outcomes***8.4.2 Record the attainment of Course Outcomes of all first year courses (5)**

Institute Marks : 5.00

Assessment of the Attainment of COs: 2023-24

The procedure for recording the attainment of Course Outcomes (COs) of all courses with respect to target attainment levels are explained as shown below:

Step-1: Assessment–CO matrix (Table 8.4.1)

Assessment types used for obtaining Assessment-CO Matrix are:

1. Final Exam
2. Subjective Test
3. Assignments
4. Practical Exam

Based on Course Outcomes defined for each course, the Assessment-CO Matrix is obtained by reflecting percentage of COs contributed in each assessment type. Finally, the average percentage of each CO is calculated which will be considered to calculate the target value to assess whether a particular CO is attained or not for a particular course. For example, the Assessment-CO matrix table for ENGLISH course is shown below:

Table 8.4.1: Assessment-CO Matrix (Autonomous – R22)

Assessment Type	Course Outcomes					
	HS101.1	HS101.2	HS101.3	HS101.4	HS101.5	Total
Final Exam	20.00%	20.00%	20.00%	20%	20.00%	100%
Subjective Test	20%	20%	20%	20%	20.00%	100%
Assignments	20%	20%	20%	20%	20%	100%
Average	20.00%	20.00%	20.00%	20.00%	20.00%	100.00%

Step-2: Overall Percentage Distribution (Table 8.4.2)

As per the **Autonomous Regulations(R22)**, the Overall Percentage Distribution is shown below which is useful in calculation of attainment of COs

Table 8.4.2(a): Overall Percentage Distribution

Assessment	Final Exam	Subjective Test	Assignments	Total
Total marks as per exam scheme	60	30	10	100
Overall percentage	60%	30%	10%	100%

Table 8.4.2(b): Overall Percentage Distribution for Labs

Assessment	Final Exam(60m)	Internal (40 m)				Total
Total marks as per scheme	60m	Continuous Evaluation		Internal Exam		100m
		Perf of Exp	Record	Test	Viva	
		15m	5m	10m	10m	
Overall Percentage	60%	15%	5%	10%	10%	100

Step-3: Student Marks according to each assessment group (Table 8.4.3)

Student Marks are to be recorded as per the assessment type mentioned in Table 8.4.1. The marks are to be recorded for all the students. In the table shown below, a sample of 15 student's marks is shown for Autonomous R22 regulation.

Table 8.4.3: Students marks according to the assessment type applicable

HS101-ENGLISH				
S.No	ROLL NO	Internal Assessment		Final Exam
		Subjective	Assignment	
1	23N31A0301	22	10	45
2	23N31A0302	22	10	33
3	23N31A0303	24	10	45
4	23N31A0304	15	10	29
5	23N31A0306	22	10	37
6	23N31A0307	19	10	47
7	23N31A0308	19	10	31
8	23N31A0309	19	10	45
9	23N31A0310	17	10	42
10	23N31A0311	18	10	49
11	23N31A0312	13	10	49
12	23N31A0313	20	10	46
13	23N31A0314	19	10	37
14	23N31A0315	13	10	49
15	23N31A0316	20	10	49

Step-4: Defining Normalized Equation to obtain Course Outcome Attainment (Table 8.4.4)

$$CO1=(0.20*FE*0.60) +(0.20*Sub*0.30) +(0.2*A*0.1)$$

$$CO2=(0.20*FE*0.60) +(0.20*Sub*0.30) +(0.2*A*0.1)$$

$$CO3=(0.20*FE*0.60) +(0.20*Sub*0.30) +(0.2*A*0.1)$$

$$CO4=(0.20*FE*0.60) +(0.20*Sub*0.30) +(0.2*A*0.1)$$

$$CO5=(0.20*FE*0.60) +(0.20*Sub*0.30) +(0.2*A*0.1)$$

FE–Students Final Exam Marks

Sub-Students Subjective Test Marks

A-Students Assignment Marks

Step-5: Course outcome Attainment according to CO% of Assessment methods (Table 8.4.4)

Using the formula defined in Step 4, Course Outcome Attainment is calculated for all the students and a sample for 15 students is shown below.

Table 8.4.4: Course Outcome Attainment

HS101-ENGLISH						
S.No.	ROLL NO	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
1	23N31A0301	6.9	6.9	6.9	6.9	6.9
2	23N31A0302	5.5	5.5	5.5	5.5	5.5
3	23N31A0303	7.0	7.0	7.0	7.0	7.0
4	23N31A0304	4.6	4.6	4.6	4.6	4.6
5	23N31A0306	6.0	6.0	6.0	6.0	6.0
6	23N31A0307	7.0	7.0	7.0	7.0	7.0
7	23N31A0308	5.1	5.1	5.1	5.1	5.1
8	23N31A0309	6.7	6.7	6.7	6.7	6.7
9	23N31A0310	6.3	6.3	6.3	6.3	6.3
10	23N31A0311	7.2	7.2	7.2	7.2	7.2
11	23N31A0312	6.9	6.9	6.9	6.9	6.9
12	23N31A0313	6.9	6.9	6.9	6.9	6.9
13	23N31A0314	5.8	5.8	5.8	5.8	5.8
14	23N31A0315	6.9	6.9	6.9	6.9	6.9
15	23N31A0316	7.3	7.3	7.3	7.3	7.3

Step-6: Setting up a target for each CO

While defining the normalized equation for the target value of individual COs the following considerations are done

- 42% of Final Exam Marks
- 60% of Subjective Marks
- 60% of Assignment Marks

In addition to the above list, the Overall percentage distribution in Table 8.4.2(a) and the Average of individual Cos in Table 8.4.1 are considered.

$$\text{Target for CO1} = ((0.6 \times 25.2) + (0.3 \times 18) + (0.1 \times 6)) \times 0.2$$

$$\text{Target for CO2} = ((0.6 \times 25.2) + (0.3 \times 18) + (0.1 \times 6)) \times 0.2$$

$$\text{Target for CO3} = ((0.6 \times 25.2) + (0.3 \times 18) + (0.1 \times 6)) \times 0.2$$

$$\text{Target for CO4} = ((0.6 \times 25.2) + (0.3 \times 18) + (0.1 \times 6)) \times 0.2$$

$$\text{Target for CO5} = ((0.6 \times 25.2) + (0.3 \times 18) + (0.1 \times 6)) \times 0.2$$

A similar procedure is followed for Labs

$$\text{Target for CO1} = ((0.6 \times 25.2) + (0.15 \times 9) + (0.05 \times 3) + (0.2 \times 12)) \times 0.2$$

$$\text{Target for CO2} = ((0.6 \times 25.2) + (0.15 \times 9) + (0.05 \times 3) + (0.2 \times 12)) \times 0.2$$

Target for CO3= $((0.6*25.2) + (0.15*9) + (0.05*3) + (0.2*12)) * 0.2$

Target for CO4= $((0.6*25.2) + (0.15*9) + (0.05*3) + (0.2*12)) * 0.2$

Target for CO5= $((0.6*25.2) + (0.15*9) + (0.05*3) + (0.2*12)) * 0.2$

Step-7: Assessment of CO Attainment (Table 8.4.5)

Find the percentage of students who reached the target of each individual Cos (Step-6) using Table 8.4.4.

If 70% and above of Students have reached the target then the Attainment Level is 3

If 60% to 69% of Students have reached the target then the Attainment Level is 2

If 50% to 59% of Students have reached the target then the Attainment Level is 1

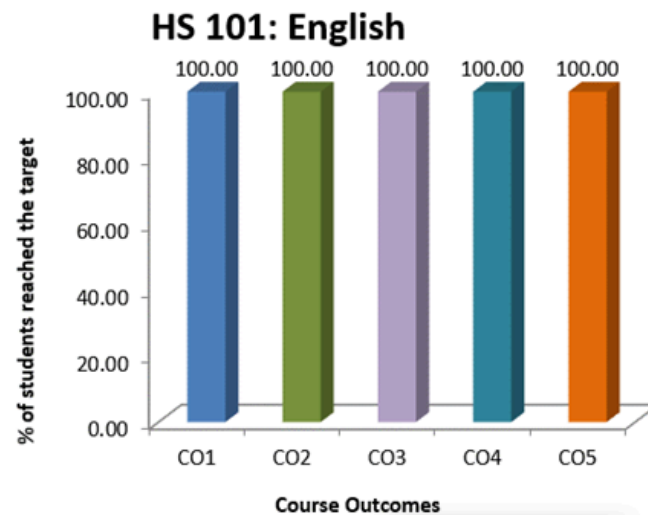
Below 50% then that particular CO is not attained.

Assessment of CO attainment for HS101 English (Theory)

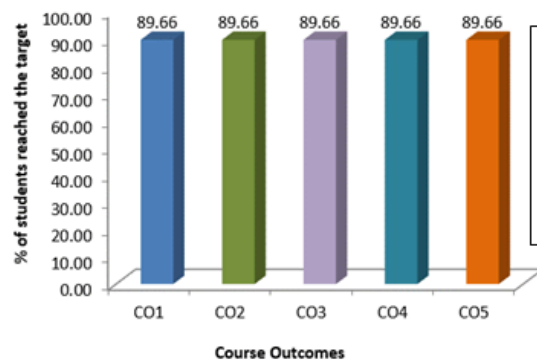
Table 8.4.5

Course Outcomes	HS101.1	HS101.2	HS101.3	HS101.4	HS101.5
Target Value	4.22	4.22	4.22	4.22	4.22
No. of students reached target	29	29	29	29	29
% of students achieved target	100%	100%	100%	100%	100%
Attainment Level	3	3	3	3	3

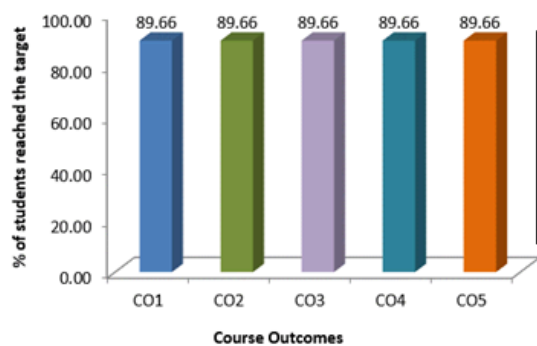
The graphical representation is as shown below



The CO attainments are tabulated and represented as follows

Mathematics I**HS 102 : Mathematics – I**

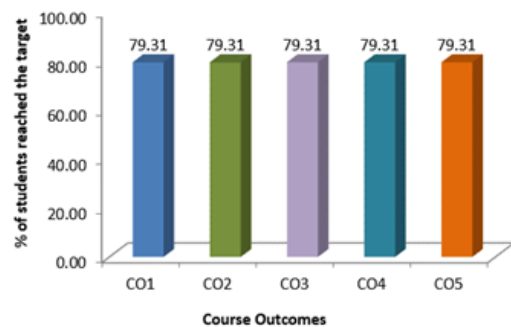
Course Outcomes	HS102.1	HS102.2	HS102.3	HS102.4	HS102.5
Target value	4.22	4.22	4.22	4.22	4.22
No. of students reached target	26	26	26	26	26
% of students achieved target	89.66%	89.66%	89.66%	89.66%	89.66%
Attainment level	3	3	3	3	3

Applied Physics**HS 103 : Applied Physics**

Course Outcomes	HS103.1	HS103.2	HS103.3	HS103.4	HS103.5
Target value	4.22	4.22	4.22	4.22	4.22
No. of students reached target	26	26	26	26	26
% of students achieved target	89.66%	89.66%	89.66%	89.66%	89.66%
Attainment level	3	3	3	3	3

Engineering Chemistry

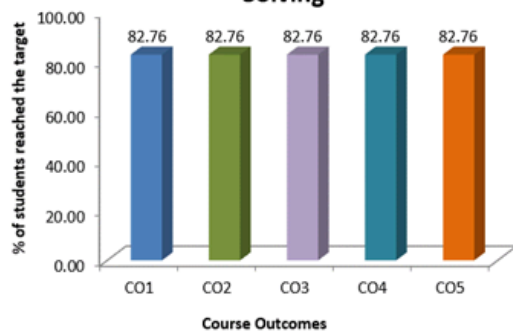
HS 104 : Engineering Chemistry



Course Outcomes	HS104.1	HS104.2	HS104.3	HS104.4	HS104.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	23	23	23	23	23
%of students achieved target	79.31%	79.31%	79.31%	79.31%	79.31%
Attainment level	3	3	3	3	3

Programming for Problem Solving

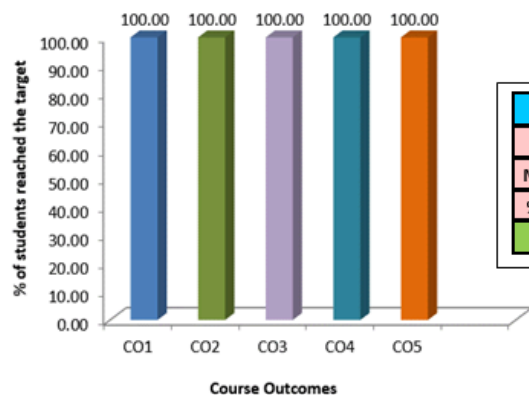
HS 105 : Programming for Problem Solving



Course Outcomes	HS105.1	HS105.2	HS105.3	HS105.4	HS105.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	24	24	24	24	24
%of students achieved target	82.76%	82.76%	82.76%	82.76%	82.76%
Attainment level	3	3	3	3	3

Engineering & Computer Hardware Workshop

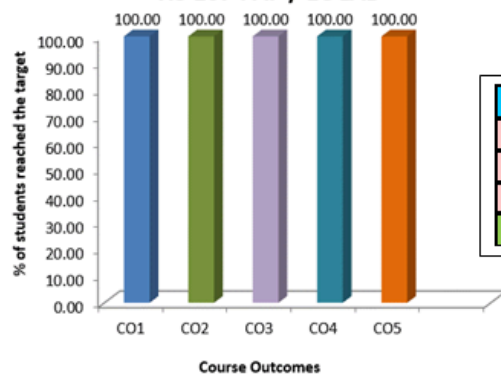
HS 106 : ECHW



Course Outcomes	HS106.1	HS106.2	HS106.3	HS106.4	HS106.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	29	29	29	29	29
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Applied Physics/ Engineering Chemistry Lab

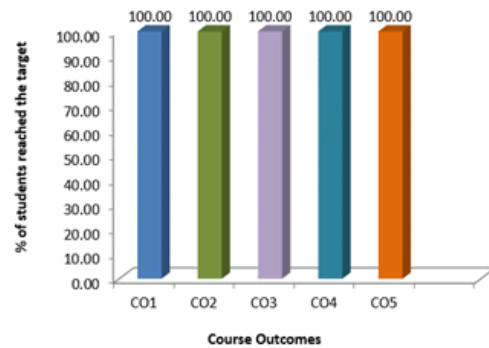
HS 107 : AP / EC LAB



Course Outcomes	HS107.1	HS107.2	HS107.3	HS107.4	HS107.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	29	29	29	29	29
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Programming For Problem Solving Lab

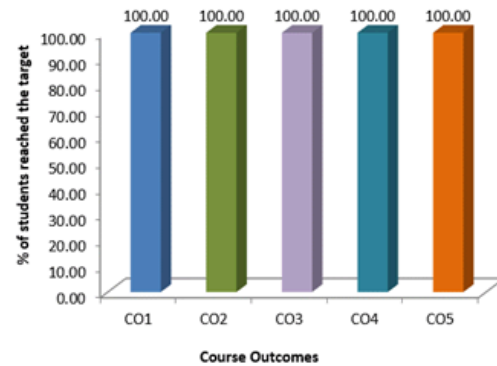
HS 108 : PPS LAB



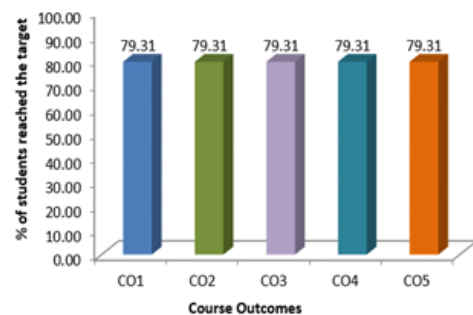
Course Outcomes	HS108.1	HS108.2	HS108.3	HS108.4	HS108.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	29	29	29	29	29
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Professional English

HS 109 : Professional English

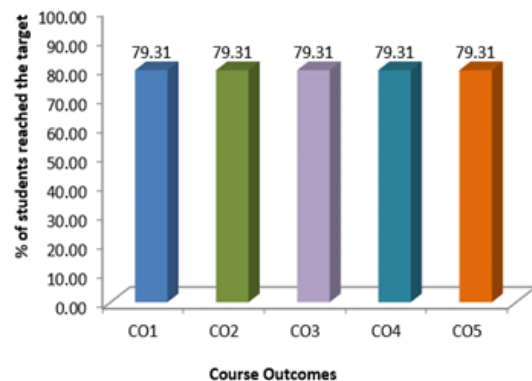


Course Outcomes	HS109.1	HS109.2	HS109.3	HS109.4	HS109.5
Target value	4.22	4.22	4.22	4.22	4.22
No. of students reached target	29	29	29	29	29
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Mathematics II**HS 110 : Mathematics – II**

Course Outcomes	HS110.1	HS110.2	HS110.3	HS110.4	HS110.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	23	23	23	23	23
%of students achieved target	79.31%	79.31%	79.31%	79.31%	79.31%
Attainment level	3	3	3	3	3

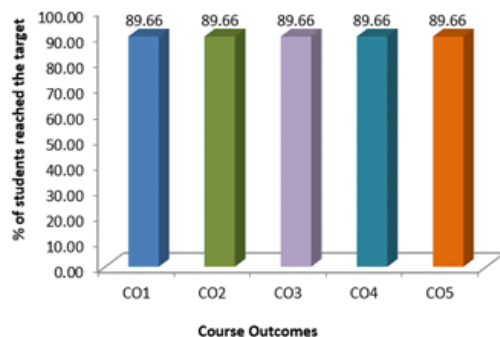
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Principles of Electrical and Electronic Engineering**HS 111 : PEE**

Course Outcomes	HS111.1	HS111.2	HS111.3	HS111.4	HS111.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	23	23	23	23	23
%of students achieved target	79.31%	79.31%	79.31%	79.31%	79.31%
Attainment level	3	3	3	3	3

Computer Aided and Engineering Graphics

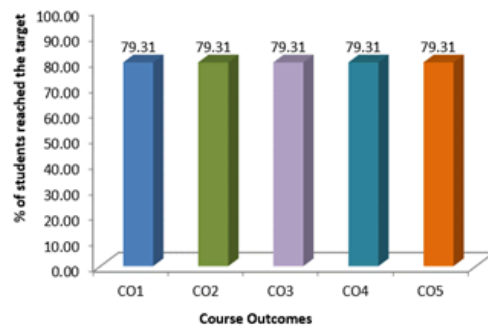
HS 112 : CAEG



Course Outcomes	HS112.1	HS112.2	HS112.3	HS112.4	HS112.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	26	26	26	26	26
%of students achieved target	89.66%	89.66%	89.66%	89.66%	89.66%
Attainment level	3	3	3	3	3

Problem Solving using Python Programming

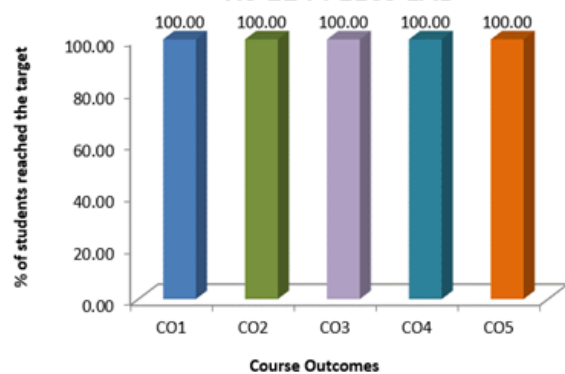
HS 113 : PSPP



Course Outcomes	HS113.1	HS113.2	HS113.3	HS113.4	HS113.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	23	23	23	23	23
%of students achieved target	79.31%	79.31%	79.31%	79.31%	79.31%
Attainment level	3	3	3	3	3

English Language Communication Skills Lab

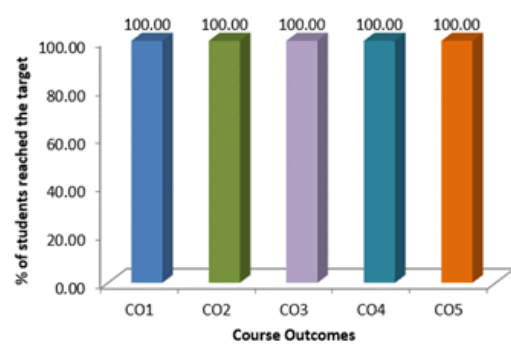
HS 114 : ELCS LAB



Course Outcomes	HS114.1	HS114.2	HS114.3	HS114.4	HS114.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	29	29	29	29	29
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

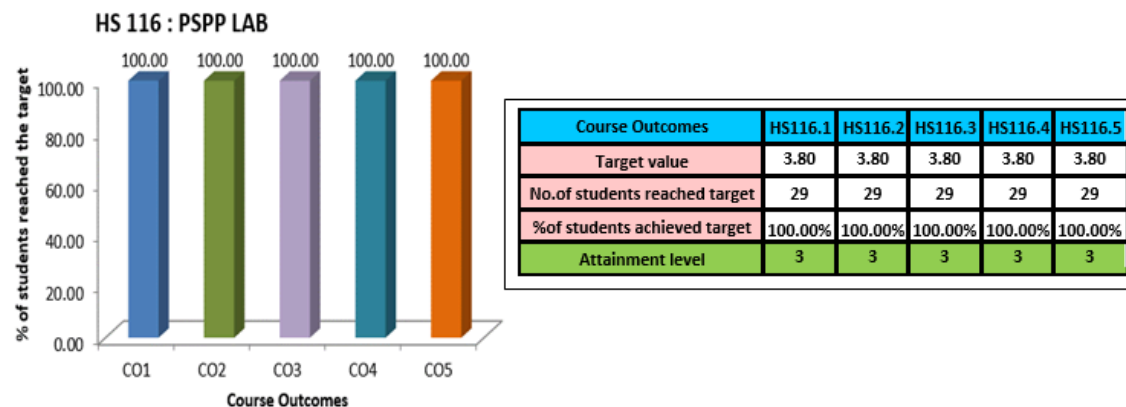
Principles of Electrical and Electronic Engineering Lab

HS 115 : PEEE LAB



Course Outcomes	HS115.1	HS115.2	HS115.3	HS115.4	HS115.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	29	29	29	29	29
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Problem Solving using Python Programming Lab



Assessment of the Attainment of COs: 2022-23

The procedure for recording the attainment of Course Outcomes (COs) of all courses with respect to target attainment levels are explained as shown below:

Step-1: Assessment-CO matrix (Table 8.4.1)

Assessment types used for obtaining Assessment-CO Matrix are:

1. Final Exam
2. Subjective Test
3. Assignments
4. Practical Exam

Based on Course Outcomes defined for each course, the Assessment-CO Matrix is obtained by reflecting the percentage of COs contributed in each assessment type. Finally, the average percentage of each CO is calculated which will be considered to calculate the target value to assess whether a particular CO is attained or not for a particular course. For example, the Assessment-CO matrix table for the ENGLISH course is shown below:

Table 8.4.1: Assessment-CO Matrix (Autonomous – R22)

Assessment Type	Course Outcomes					
	HS101.1	HS101.2	HS101.3	HS101.4	HS101.5	Total
Final Exam	20.00%	20.00%	20.00%	20%	20.00%	100%
Subjective Test	20%	20%	20%	20%	20.00%	100%
Assignments	20%	20%	20%	20%	20%	100%
Average	20.00%	20.00%	20.00%	20.00%	20.00%	100.00%

Step-2: Overall Percentage Distribution (Table 8.4.2)

As per the **Autonomous Regulations(R22)**, the Overall Percentage Distribution is shown below which is useful in the calculation of attainment of COs

Table 8.4.2(a): Overall Percentage Distribution

Assessment	Final Exam	Subjective Test	Assignments	Total
Total marks as per exam scheme	60	30	10	100
Overall percentage	60%	30%	10%	100%

Table2(b): Overall Percentage Distribution for Labs

Assessment	Final Exam(60m)	Internal (40 m)				Total
Total marks as per scheme	60m	Continuous Evaluation		Internal Exam		100m
		Perf of Exp	Record	Test	Viva	
		15m	5m	10m	10m	
Overall Percentage	60%	15%	5%	10%	10%	100

Step-3: Student Marks according to each assessment group (Table 8.4.3)

Student Marks are to be recorded as per the assessment type mentioned in Table 8.4.1. The marks are to be recorded for all the students. In the table shown below, a sample of 15 student's marks is shown for Autonomous R22 regulation.

Table 8.4.3: Students Marks According to the Assessment

HS101-ENGLISH				
S.No	ROLL NO	Internal Assessment		Final Exam
		Subjective	Assignment	
1	22N31A0301	23	10	40
2	22N31A0302	26	10	47
3	22N31A0303	29	10	37
4	22N31A0304	24	10	37
5	22N31A0305	25	10	53
6	22N31A0306	24	10	39
7	22N31A0307	23	10	37
8	22N31A0308	27	10	44
9	22N31A0309	23	10	45
10	22N31A0310	26	10	43
11	22N31A0311	13	10	50
12	22N31A0312	14	10	52
13	22N31A0313	27	10	49
14	22N31A0314	29	10	33
15	22N31A0315	28	10	48

Step-4: Defining Normalized Equation to obtain Course Outcome Attainment (Table 8.4.4)

$$CO1 = (0.20*FE*0.60) + (0.20*Sub*0.30) + (0.2*A*0.1)$$

$$CO2 = (0.20*FE*0.60) + (0.20*Sub*0.30) + (0.2*A*0.1)$$

$$CO3 = (0.20*FE*0.60) + (0.20*Sub*0.30) + (0.2*A*0.1)$$

$$CO4 = (0.20*FE*0.60) + (0.20*Sub*0.30) + (0.2*A*0.1)$$

$$CO5 = (0.20*FE*0.60) + (0.20*Sub*0.30) + (0.2*A*0.1)$$

FE–Students Final Exam Marks

Sub-Students Subjective Test Marks

A-Students Assignment Marks

Step-5: Course outcome Attainment according to CO% of Assessment methods (Table 8.4.4)

Using the formula defined in Step 4, Course Outcome Attainment is calculated for all the students and a sample for 15 students is shown below.

Table 8.4.4: Course Outcome Attainment

HS101-ENGLISH						
S.No	ROLL NO	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
1	22N31A0301	6.4	6.4	6.4	6.4	6.4
2	22N31A0302	7.4	7.4	7.4	7.4	7.4
3	22N31A0303	6.4	6.4	6.4	6.4	6.4
4	22N31A0304	6.1	6.1	6.1	6.1	6.1
5	22N31A0305	8.1	8.1	8.1	8.1	8.1
6	22N31A0306	6.3	6.3	6.3	6.3	6.3
7	22N31A0307	6.0	6.0	6.0	6.0	6.0
8	22N31A0308	7.1	7.1	7.1	7.1	7.1
9	22N31A0309	7.0	7.0	7.0	7.0	7.0
10	22N31A0310	6.9	6.9	6.9	6.9	6.9
11	22N31A0311	7.0	7.0	7.0	7.0	7.0
12	22N31A0312	7.3	7.3	7.3	7.3	7.3
13	22N31A0313	7.7	7.7	7.7	7.7	7.7
14	22N31A0314	5.9	5.9	5.9	5.9	5.9
15	22N31A0315	7.6	7.6	7.6	7.6	7.6

Step-6: Setting up a target for each CO

While defining the normalized equation for the target value of individual COs the following considerations are done

- 42% of Final Exam Marks
- 60% of Subjective Marks
- 60% of Assignment Marks

In addition to the above list, the Overall percentage distribution in Table 8.4.2(a) and the Average of individual Cos in Table 8.4.1 are considered.

$$\text{Target for CO1} = ((0.6*25.2) + (0.3*18) + (0.1*6)) * 0.2$$

$$\text{Target for CO2} = ((0.6*25.2) + (0.3*18) + (0.1*6)) * 0.2$$

$$\text{Target for CO3} = ((0.6*25.2) + (0.3*18) + (0.1*6)) * 0.2$$

Target for CO4 = $((0.6*25.2) + (0.3*18) + (0.1*6)) * 0.2$

Target for CO5 = $((0.6*25.2) + (0.3*18) + (0.1*6)) * 0.2$

A similar procedure is followed for Labs

Target for CO1 = $((0.6*25.2) + (0.15*9) + (0.05*3) + (0.2*12)) * 0.2$

Target for CO2 = $((0.6*25.2) + (0.15*9) + (0.05*3) + (0.2*12)) * 0.2$

Target for CO3 = $((0.6*25.2) + (0.15*9) + (0.05*3) + (0.2*12)) * 0.2$

Target for CO4 = $((0.6*25.2) + (0.15*9) + (0.05*3) + (0.2*12)) * 0.2$

Target for CO5 = $((0.6*25.2) + (0.15*9) + (0.05*3) + (0.2*12)) * 0.2$

Step-7: Assessment of CO Attainment (Table 8.4.5)

Find the percentage of students who reached the target of each individual COs (Step-6) using Table 8.4.4.

If 70% and above of Students have reached the target then the Attainment Level is 3

If 60% to 69% of Students have reached the target then the Attainment Level is 2

If 50% to 59% of Students have reached the target then the Attainment Level is 1

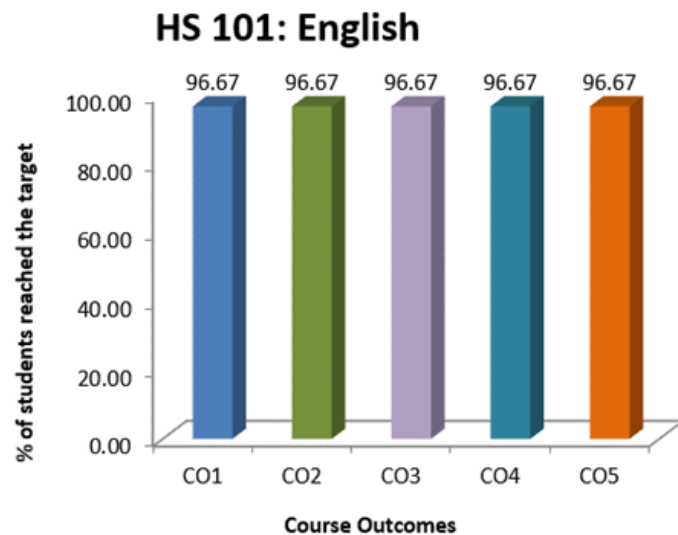
Below 50% then that particular CO is not attained.

Assessment of CO attainment for HS101 English (Theory)

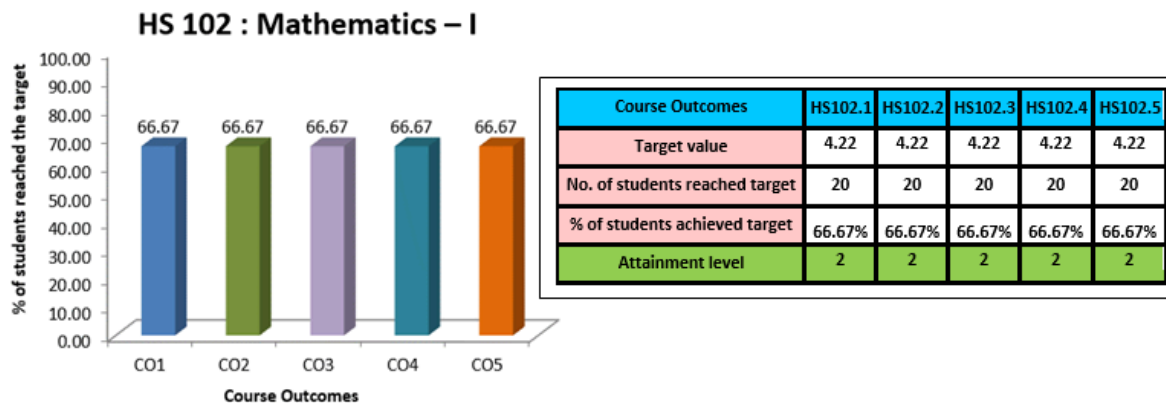
Table 8.4.5

Course Outcomes	HS101.1	HS101.2	HS101.3	HS101.4	HS101.5
Target Value	4.22	4.22	4.22	4.22	4.22
No. of students reached target	29	29	29	29	29
% of students achieved target	96.67%	96.67%	96.67%	96.67%	96.67%
Attainment Level	3	3	3	3	3

The graphical representation is as shown below

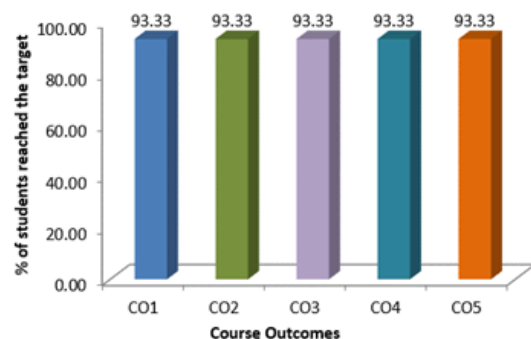


The CO attainments are tabulated as follows



Applied Physics

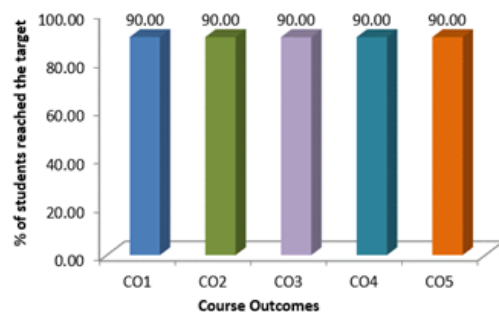
HS 103 : Applied Physics



Course Outcomes	HS103.1	HS103.2	HS103.3	HS103.4	HS103.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	28	28	28	28	28
%of students achieved target	93.33%	93.33%	93.33%	93.33%	93.33%
Attainment level	3	3	3	3	3

Engineering Chemistry

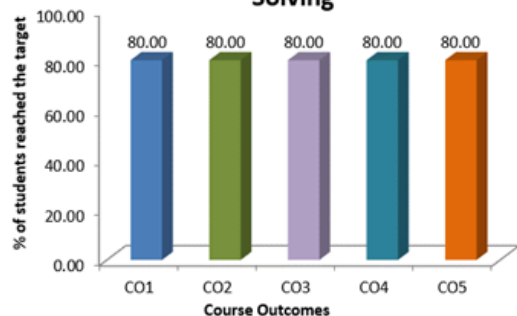
HS 104 : Engineering Chemistry



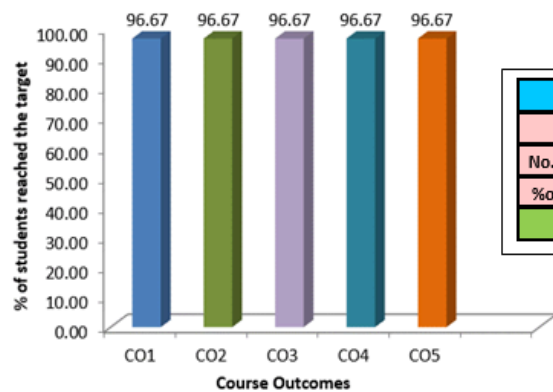
Course Outcomes	HS104.1	HS104.2	HS104.3	HS104.4	HS104.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	27	27	27	27	27
%of students achieved target	90.00%	90.00%	90.00%	90.00%	90.00%
Attainment level	3	3	3	3	3

Programming for Problem Solving

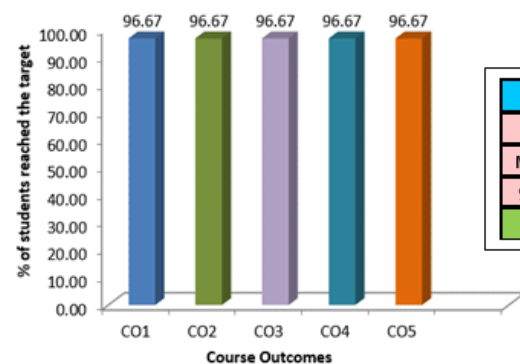
HS 105 : Programming for Problem Solving



Course Outcomes	HS105.1	HS105.2	HS105.3	HS105.4	HS105.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	24	24	24	24	24
%of students achieved target	80.00%	80.00%	80.00%	80.00%	80.00%
Attainment level	3	3	3	3	3

Engineering & Computer Hardware Workshop**HS 106 : ECHW**

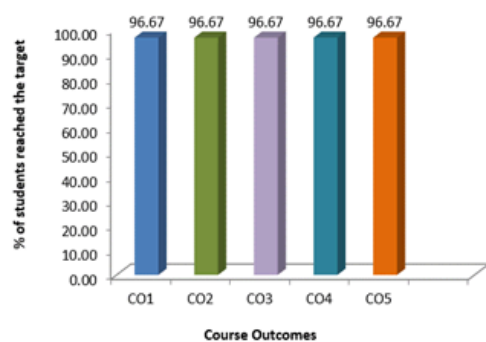
Course Outcomes	HS106.1	HS106.2	HS106.3	HS106.4	HS106.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	29	29	29	29	29
%of students achieved target	96.67%	96.67%	96.67%	96.67%	96.67%
Attainment level	3	3	3	3	3

Applied Physics/ Engineering Chemistry Lab**HS 107 : AP / EC LAB**

Course Outcomes	HS107.1	HS107.2	HS107.3	HS107.4	HS107.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	29	29	29	29	29
%of students achieved target	96.67%	96.67%	96.67%	96.67%	96.67%
Attainment level	3	3	3	3	3

Programming For Problem Solving Lab

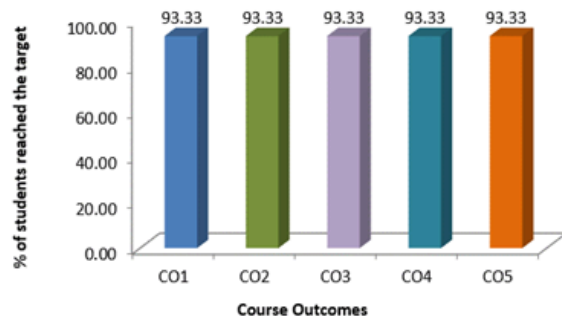
HS 108 : PPS LAB



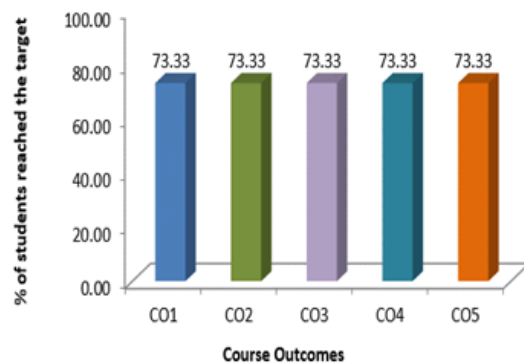
Course Outcomes	HS108.1	HS108.2	HS108.3	HS108.4	HS108.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	29	29	29	29	29
%of students achieved target	96.67%	96.67%	96.67%	96.67%	96.67%
Attainment level	3	3	3	3	3

Professional English

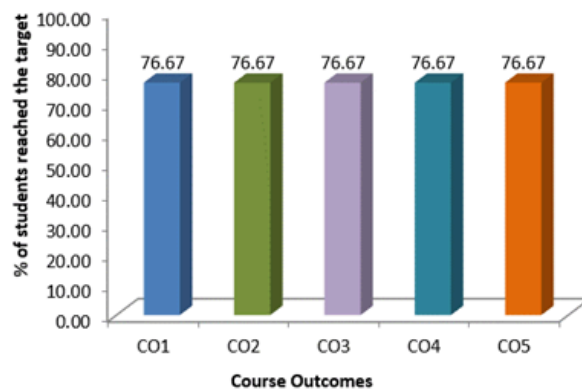
HS 109 : Professional English



Course Outcomes	HS109.1	HS109.2	HS109.3	HS109.4	HS109.5
Target value	4.22	4.22	4.22	4.22	4.22
No. of students reached target	28	28	28	28	28
%of students achieved target	93.33%	93.33%	93.33%	93.33%	93.33%
Attainment level	3	3	3	3	3

Mathematics II**HS 110 : Mathematics – II**

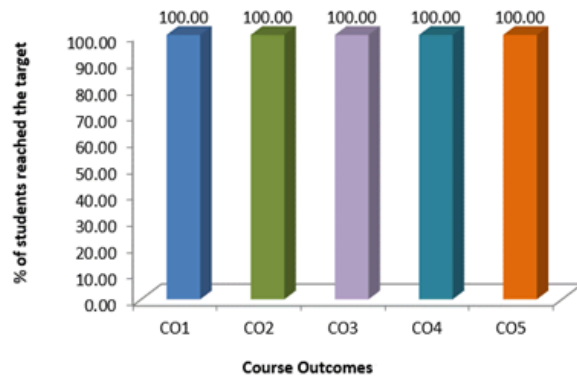
Course Outcomes	HS110.1	HS110.2	HS110.3	HS110.4	HS110.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	22	22	22	22	22
%of students achieved target	73.33%	73.33%	73.33%	73.33%	73.33%
Attainment level	3	3	3	3	3

Principles of Electrical and Electronic Engineering**HS 111 : PEEE**

Course Outcomes	HS111.1	HS111.2	HS111.3	HS111.4	HS111.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	23	23	23	23	23
%of students achieved target	76.67%	76.67%	76.67%	76.67%	76.67%
Attainment level	3	3	3	3	3

Computer Aided and Engineering Graphics

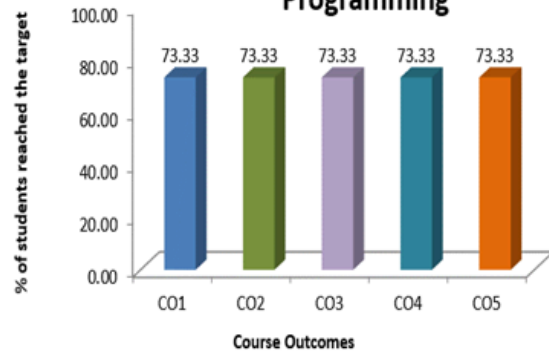
HS 112 : CAEG



Course Outcomes	HS112.1	HS112.2	HS112.3	HS112.4	HS112.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	30	30	30	30	30
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Problem using Python Programming

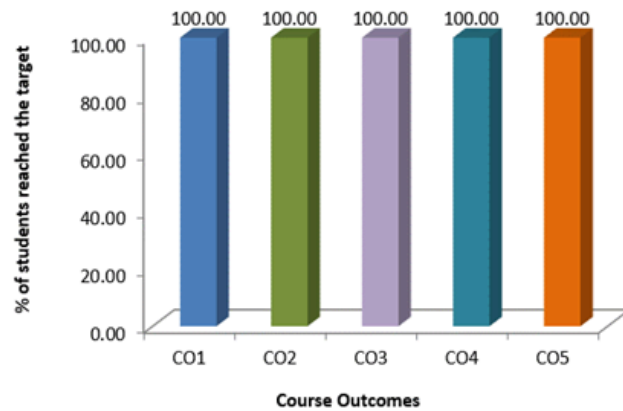
HS 113 : Problem Solving using Python Programming



Course Outcomes	HS113.1	HS113.2	HS113.3	HS113.4	HS113.5
Target value	4.22	4.22	4.22	4.22	4.22
No.of students reached target	22	22	22	22	22
%of students achieved target	73.33%	73.33%	73.33%	73.33%	73.33%
Attainment level	3	3	3	3	3

English Language Communication Skills Lab

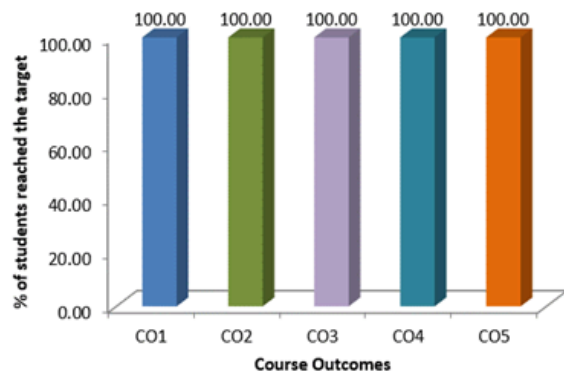
HS 114 : ELCS LAB



Course Outcomes	HS114.1	HS114.2	HS114.3	HS114.4	HS114.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	30	30	30	30	30
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

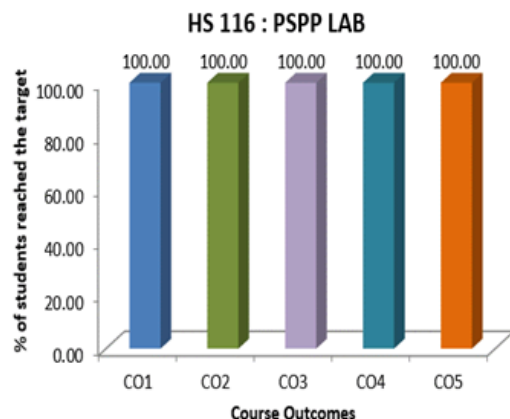
Principles of Electrical and Electronic Engineering Lab

HS 115 : PEEE LAB



Course Outcomes	HS115.1	HS115.2	HS115.3	HS115.4	HS115.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	30	30	30	30	30
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Problem Solving using Python Programming Lab



Course Outcomes	HS116.1	HS116.2	HS116.3	HS116.4	HS116.5
Target value	3.80	3.80	3.80	3.80	3.80
No.of students reached target	30	30	30	30	30
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Assessment of the Attainment of COs: 2021-22

The procedure for recording the attainment of Course Outcomes (COs) of all courses with respect to target attainment levels are explained as shown below:

Step-1: Assessment-CO matrix (Table 8.4.1)

Assessment types used for obtaining the Assessment-CO Matrix are:

1. Final Exam
2. Subjective Test
3. Assignments
4. Practical Exam

Based on Course Outcomes defined for each course, the Assessment-CO Matrix is obtained by reflecting the percentage of COs contributed in each assessment type. Finally, the average percentage of each CO is calculated which will be considered to calculate the target value to assess whether a particular CO is attained or not for a particular course. For example, the Assessment-CO matrix table for the ENGLISH course is shown below:

Table 8.4.1: Assessment-CO Matrix (Autonomous – R20)

Assessment Type	Course Outcomes					
	HS101.1	HS101.2	HS101.3	HS101.4	HS101.5	Total
Final Exam	20.00%	20.00%	20.00%	20%	20.00%	100%
Subjective Test	20%	20%	20%	20%	20.00%	100%
Assignments	20%	20%	20%	20%	20%	100%
Average	20.00%	20.00%	20.00%	20.00%	20.00%	100.00%

Step-2: Overall Percentage Distribution (Table 8.4.2)

As per the **Autonomous Regulations(R20)**, the Overall Percentage Distribution is shown below which is useful in the calculation of the attainment of COs

Table 8.4.2(a): Overall Percentage Distribution

Assessment	Final Exam	Subjective Test	Assignments	Total
Total marks as per exam scheme	70	24	6	100
Overall percentage	70%	24%	6%	100%

Table 8.4.2(b): Overall Percentage Distribution for Labs

Assessment	Final Exam(70m)	Internal (30 m)			Total
Total marks as per scheme	70m	Continuous Evaluation		Internal Exam	100m
		Perf of Exp	Record	Test	
		15m	5m	10m	
Overall Percentage	70%	15%	5%	10%	100

Step-3: Student Marks according to each assessment group (Table 8.4.3)

Student Marks are to be recorded as per the assessment type mentioned in Table 8.4.1. The marks are to be recorded for all the students. In the table shown below, a sample of 15 student's marks is shown for Autonomous R20 regulation.

Table 8.4.3: Students Marks According to the Assessment

HS101-ENGLISH				
S.No	ROLL NO	Internal Assessment		Final Exam
		Subjective	Assignment	
1	21N31A0301	22	6	42
2	21N31A0302	23	6	44
3	21N31A0303	23	6	53
4	21N31A0304	21	6	44
5	21N31A0305	24	6	49
6	21N31A0306	20	6	47
7	21N31A0307	21	6	45
8	21N31A0308	20	6	51
9	21N31A0309	21	6	53
10	21N31A0310	15	6	31
11	21N31A0311	17	6	46
12	21N31A0312	24	6	46
13	21N31A0313	21	6	53
14	21N31A0314	A	3	A
15	21N31A0315	19	6	50

Step-4: Defining Normalized Equation to obtain Course Outcome Attainment (Table 8.4.4)

$$CO1 = (0.20*FE*0.70) + (0.20*Sub*0.24) + (0.2*A*0.06)$$

$$CO2 = (0.20*FE*0.70) + (0.20*Sub*0.24) + (0.2*A*0.06)$$

$$CO3 = (0.20*FE*0.70) + (0.20*Sub*0.24) + (0.2*A*0.06)$$

$$CO4 = (0.20*FE*0.70) + (0.20*Sub*0.24) + (0.2*A*0.06)$$

$$CO5 = (0.20*FE*0.70) + (0.20*Sub*0.24) + (0.2*A*0.06)$$

FE–Students Final Exam Marks

Sub-Students Subjective Test Marks

A-Students Assignment Marks

Step-5: Course outcome Attainment according to CO% of Assessment methods (Table 8.4.4)

Using the formula defined in Step 4, Course Outcome Attainment is calculated for all the students and a sample for 15 students is shown below.

Table 8.4.4: Course Outcome Attainment

HS101-ENGLISH						
S.No	ROLL NO	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
1	21N31A0301	7.0	7.0	7.0	7.0	7.0
2	21N31A0302	7.3	7.3	7.3	7.3	7.3
3	21N31A0303	8.6	8.6	8.6	8.6	8.6
4	21N31A0304	7.2	7.2	7.2	7.2	7.2
5	21N31A0305	8.1	8.1	8.1	8.1	8.1
6	21N31A0306	7.6	7.6	7.6	7.6	7.6
7	21N31A0307	7.4	7.4	7.4	7.4	7.4
8	21N31A0308	8.2	8.2	8.2	8.2	8.2
9	21N31A0309	8.5	8.5	8.5	8.5	8.5
10	21N31A0310	5.4	5.4	5.4	5.1	5.1
11	21N31A0311	7.2	7.2	7.2	7.3	7.3
12	21N31A0312	7.3	7.3	7.3	7.3	7.7
13	21N31A0313	8.6	8.6	8.6	8.6	8.5
14	21N31A0314	1.1	1.1	1.1	1.1	0.1
15	21N31A0315	7.1	7.1	7.1	7.1	7.1

Step-6: Setting up a target for each CO

While defining the normalized equation for the target value of individual COs the following considerations are done

- 42% of Final Exam Marks
- 60% of Subjective Marks
- 60% of Assignment Marks

In addition to the above list, the Overall percentage distribution in Table 8.4.2(a) and the Average of individual COs in Table 8.4.1 are considered.

Target for CO1 = $((0.7*29.4) + (0.24*14.4) + (0.06*3.6)) * 0.2$

Target for CO2 = $((0.7*29.4) + (0.24*14.4) + (0.06*3.6)) * 0.2$

Target for CO3 = $((0.7*29.4) + (0.24*14.4) + (0.06*3.6)) * 0.2$

Target for CO4 = $((0.7*29.4) + (0.24*14.4) + (0.06*3.6)) * 0.2$

Target for CO5 = $((0.7*29.4) + (0.24*14.4) + (0.06*3.6)) * 0.2$

A similar procedure is followed for Labs

Target for CO1 = $((0.7*29.4) + (0.15*9) + (0.05*3) + (0.1*6)) * 0.2$

Target for CO2 = $((0.7*29.4) + (0.15*9) + (0.05*3) + (0.1*6)) * 0.2$

Target for CO3 = $((0.7*29.4) + (0.15*9) + (0.05*3) + (0.1*6)) * 0.2$

Target for CO4 = $((0.7*29.4) + (0.15*9) + (0.05*3) + (0.1*6)) * 0.2$

Target for CO5 = $((0.7*29.4) + (0.15*9) + (0.05*3) + (0.1*6)) * 0.2$

Step-7: Assessment of CO Attainment (Table 8.4.5)

Find the percentage of students who reached the target of each individual COs (Step-6) using Table 8.4.4.

If 70% and above of Students have reached the target then the Attainment Level is 3

If 60% to 69% of Students have reached the target then the Attainment Level is 2

If 50% to 59% of Students have reached the target then the Attainment Level is 1

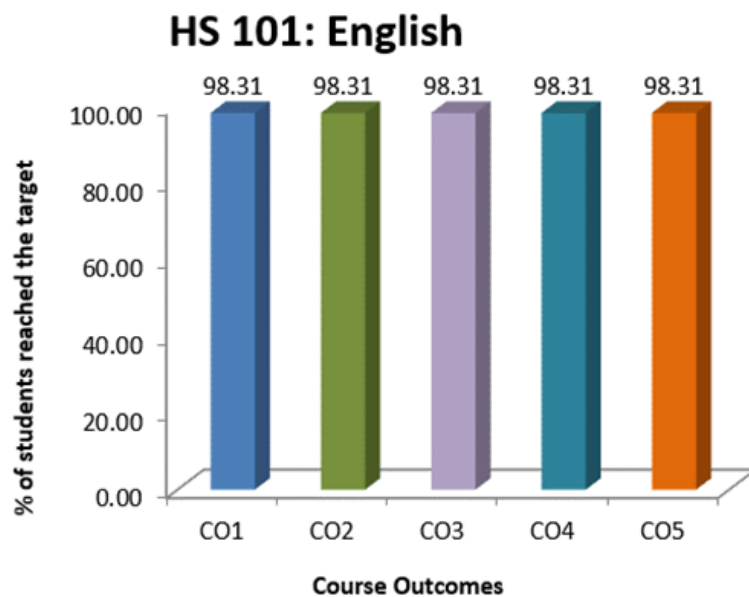
Below 50% then that particular CO is not attained.

Assessment of CO attainment for HS101 English (Theory)

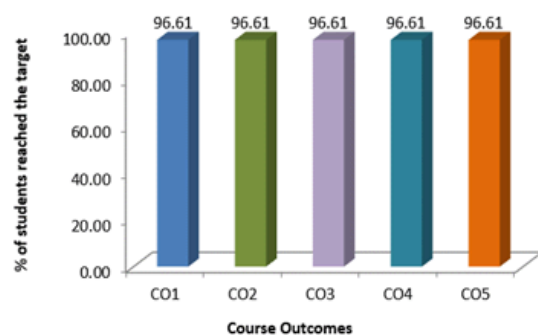
Table 8.4.5

Course Outcomes	HS101.1	HS101.2	HS101.3	HS101.4	HS101.5
Target Value	4.22	4.22	4.22	4.22	4.22
No. of students reached target	58	58	58	58	58
% of students achieved target	98.31%	98.31%	98.31%	98.31%	98.31%
Attainment Level	3	3	3	3	3

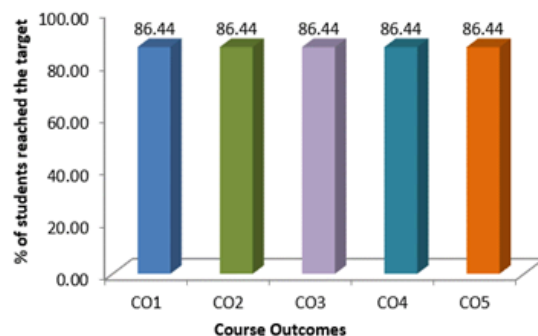
The graphical representation is as shown below



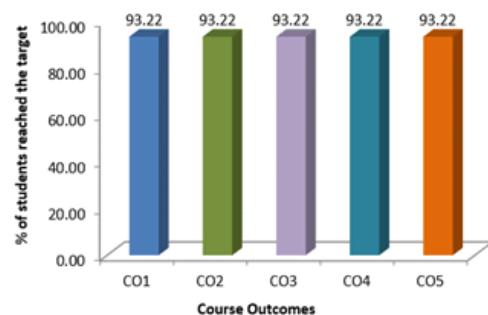
The CO attainments are tabulated as follows

Mathematics I**HS 102 : Mathematics – I**

Course Outcomes	HS102.1	HS102.2	HS102.3	HS102.4	HS102.5
Target value	4.85	4.85	4.85	4.85	4.85
No.of students reached target	57	57	57	57	57
%of students achieved target	96.61%	96.61%	96.61%	96.61%	96.61%
Attainment level	3	3	3	3	3

Engineering Physics**HS 103 : Engineering Physics**

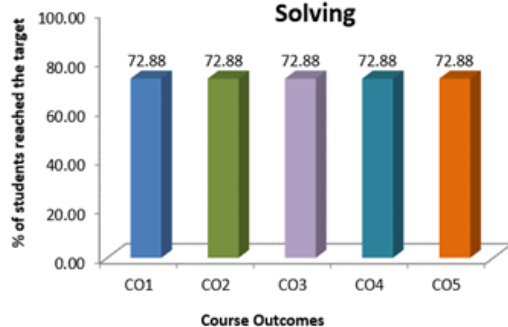
Course Outcomes	HS103.1	HS103.2	HS103.3	HS103.4	HS103.5
Target value	4.85	4.85	4.85	4.85	4.85
No.of students reached target	51	51	51	51	51
%of students achieved target	86.44%	86.44%	86.44%	86.44%	86.44%
Attainment level	3	3	3	3	3

Engineering Chemistry**HS 104 : Engineering Chemistry**

Course Outcomes	HS104.1	HS104.2	HS104.3	HS104.4	HS104.5
Target value	4.85	4.85	4.85	4.85	4.85
No.of students reached target	55	55	55	55	55
%of students achieved target	93.22%	93.22%	93.22%	93.22%	93.22%
Attainment level	3	3	3	3	3

Programming for Problem Solving

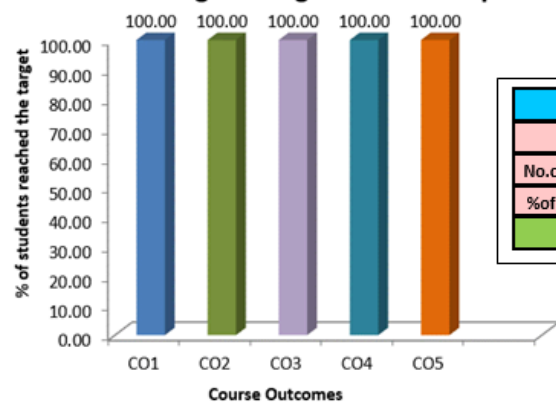
HS 105 : Programming for Problem Solving



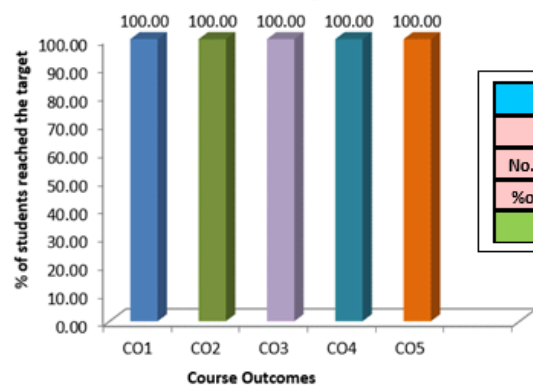
Course Outcomes	HS105.1	HS105.2	HS105.3	HS105.4	HS105.5
Target value	4.85	4.85	4.85	4.85	4.85
No.of students reached target	43	43	43	43	43
%of students achieved target	72.88%	72.88%	72.88%	72.88%	72.88%
Attainment level	3	3	3	3	3

Engineering/IT Workshop Lab

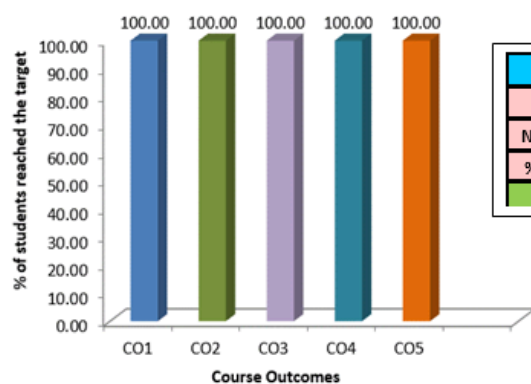
HS 106 : Engineering & IT Workshop



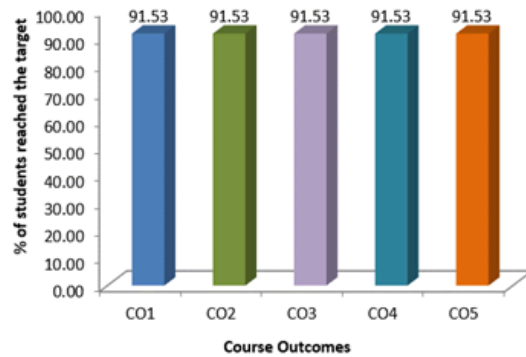
Course Outcomes	HS106.1	HS106.2	HS106.3	HS106.4	HS106.5
Target value	4.54	4.54	4.54	4.54	4.54
No.of students reached target	59	59	59	59	59
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Engineering Chemistry / Engineering Physics Lab**HS 107 : EC / EP LAB**

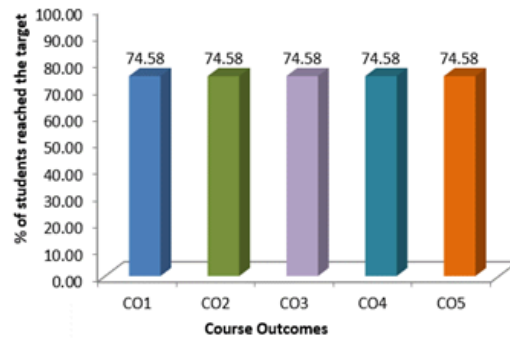
Course Outcomes	HS107.1	HS107.2	HS107.3	HS107.4	HS107.5
Target value	4.54	4.54	4.54	4.54	4.54
No.of students reached target	59	59	59	59	59
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Programming For Problem Solving Lab**HS 108 : PPS LAB**

Course Outcomes	HS108.1	HS108.2	HS108.3	HS108.4	HS108.5
Target value	4.54	4.54	4.54	4.54	4.54
No.of students reached target	59	59	59	59	59
%of students achieved target	100.00%	100.00%	100.00%	100.00%	100.00%
Attainment level	3	3	3	3	3

Professional English**HS 109 : Professional English**

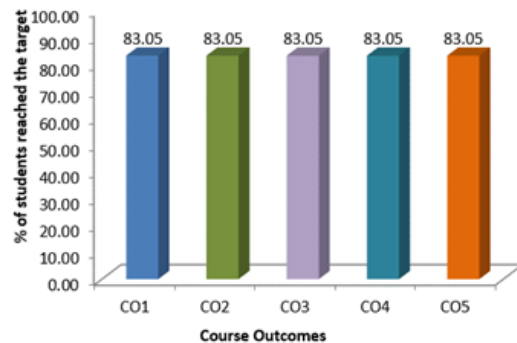
Course Outcomes	HS109.1	HS109.2	HS109.3	HS109.4	HS109.5
Target value	4.85	4.85	4.85	4.85	4.85
No. of students reached target	54	54	54	54	54
%of students achieved target	91.53%	91.53%	91.53%	91.53%	91.53%
Attainment level	3	3	3	3	3

Mathematics II**HS 110 : Mathematics II**

Course Outcomes	HS110.1	HS110.2	HS110.3	HS110.4	HS110.5
Target value	4.85	4.85	4.85	4.85	4.85
No.of students reached target	44	44	44	44	44
%of students achieved target	74.58%	74.58%	74.58%	74.58%	74.58%
Attainment level	3	3	3	3	3

Basic Electronics and Electrical Engineering

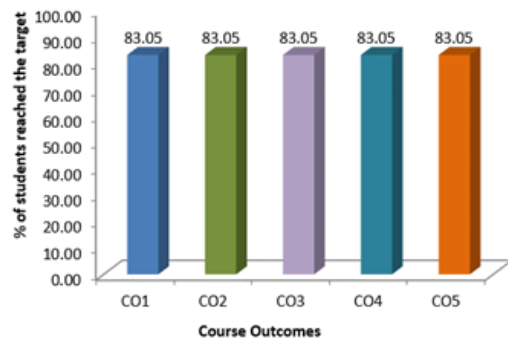
HS 111 : BEEE



Course Outcomes	HS111.1	HS111.2	HS111.3	HS111.4	HS111.5
Target value	4.85	4.85	4.85	4.85	4.85
No.of students reached target	49	49	49	49	49
%of students achieved target	83.05%	83.05%	83.05%	83.05%	83.05%
Attainment level	3	3	3	3	3

Computer Aided Engineering Graphics

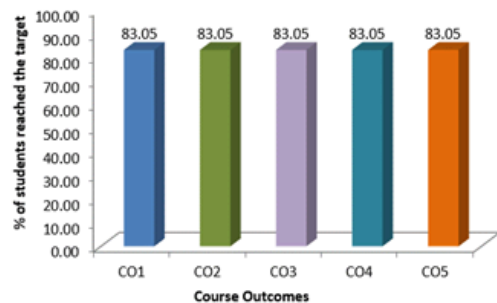
HS 112 : Engineering Graphics



Course Outcomes	HS112.1	HS112.2	HS112.3	HS112.4	HS112.5
Target value	4.85	4.85	4.85	4.85	4.85
No.of students reached target	49	49	49	49	49
%of students achieved target	83.05%	83.05%	83.05%	83.05%	83.05%
Attainment level	3	3	3	3	3

Python Programming

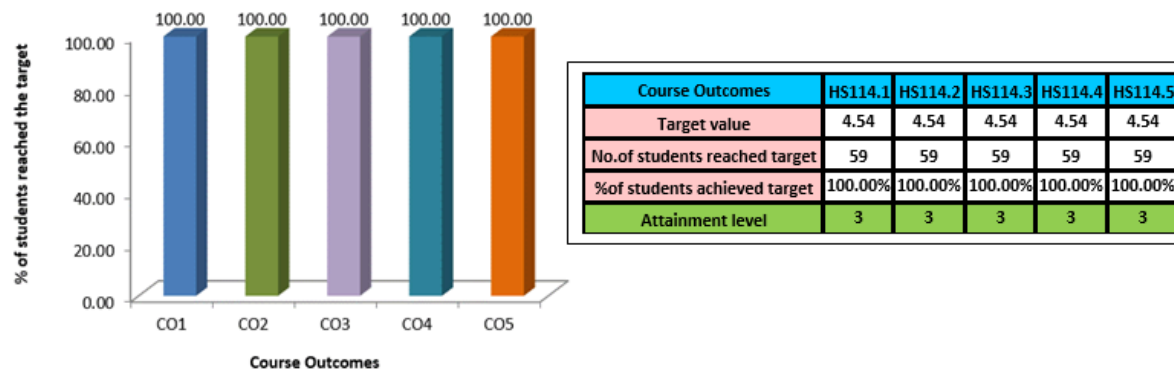
HS 113 : Python Programming



Course Outcomes	HS113.1	HS113.2	HS113.3	HS113.4	HS113.5
Target value	4.85	4.85	4.85	4.85	4.85
No.of students reached target	49	49	49	49	49
%of students achieved target	83.05%	83.05%	83.05%	83.05%	83.05%
Attainment level	3	3	3	3	3

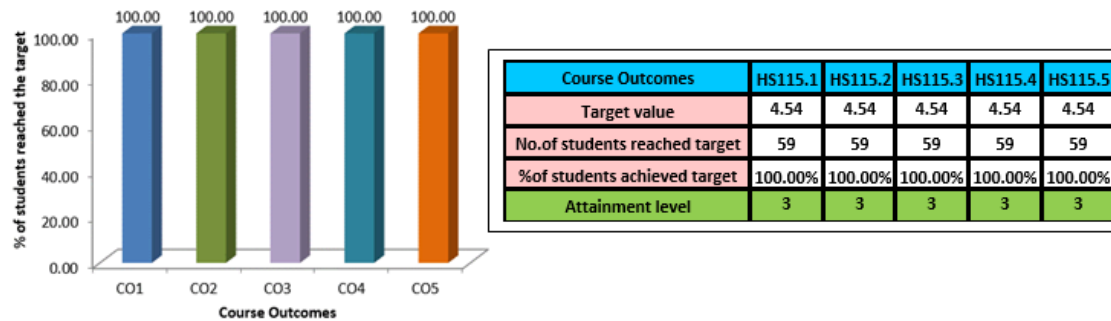
English Language Communication Skills Lab

HS 114 : ELCS LAB

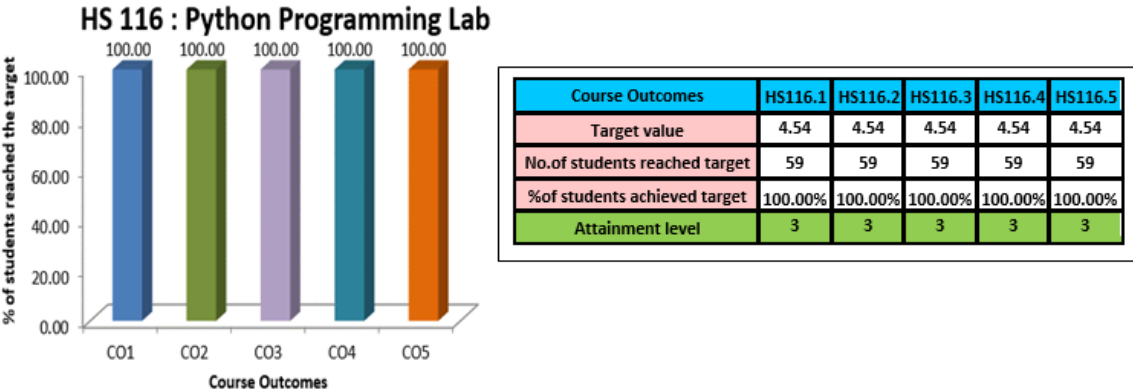


Basic Electronics and Electrical Engineering Lab

HS 115 : BEEE LAB



Python Programming Lab



8.5 Attainment of Program Outcomes from first year courses (20)

Total Marks 20.00

8.5.1 Indicate results of evaluation of each relevant PO and/or PSO if applicable (10)

Institute Marks : 10.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
HS 101	3	3	0	3	0	3	0	3	3	3	0	3
HS 102	3	3	3	3	3	0	0	0	0	0	0	3
HS 103	3	3	3	3	0	0	0	3	3	3	3	3
HS 104	3	3	3	3	0	3	3	3	3	3	0	3
HS 105	3	3	3	3	3	3	3	3	3	3	3	3
HS 106	3	3	3	3	3	3	0	3	3	3	0	3
HS 107	3	3	3	3	3	3	3	3	3	3	3	3
HS 108	3	3	3	3	3	3	3	3	3	3	3	3
HS 109	3	3	0	3	0	3	0	3	3	3	0	3
HS 110	3	3	3	3	3	3	0	0	0	0	3	3
HS 111	3	3	3	3	3	0	0	0	0	0	0	3
HS 112	3	3	3	3	3	3	3	0	3	3	0	3
HS 113	3	3	3	3	3	3	3	3	3	3	3	3
HS 114	3	3	0	3	0	0	3	0	3	3	3	3
HS 115	3	3	3	3	3	3	3	3	3	3	3	3
HS 116	3	3	3	3	3	3	3	3	3	3	3	3

PO Attainment Level**PSOs Attainment:**

Course	PSO1	PSO2	PSO3
HS101	3	3	3
HS102	3	3	3
HS103	3	3	3
HS104	3	3	3
HS105	3	3	3
HS106	3	3	3
HS107	3	3	3
HS108	3	3	3
HS109	3	3	3
HS110	3	3	3
HS111	3	3	3
HS112	3	3	3
HS113	3	3	3
HS114	3	3	3
HS115	3	3	3
HS116	3	3	3

PSO Attainment Level

Course	PO1	PO2	PO3
Direct Attainment	3	3	3
PSO Attainment	3	3	3

8.5.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10)

Institute Marks : 10.00

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.5	2.95	Target Level has been achieved
Action 1: Encourage students to participate in competitive events to enhance their knowledge and apply their skills in advanced engineering practices. Action 2: Organize periodic guest lectures to supplement and enrich existing professional knowledge.			
PO 2 : Problem Analysis			
PO 2	2.5	2.92	Target Level has been achieved
Action 1: Problem-solving and analytical skills are enhanced by engaging with a diverse range of problems from various authors, extending beyond the prescribed curriculum. Action 2: Seminars are organized focusing on problem analysis, equipping students with knowledge of various troubleshooting techniques and effective solution strategies.			
PO 3 : Design/development of Solutions			
PO 3	2.5	2.93	Target Level has been achieved
Action 1: Specialized guest lectures are organized to enhance students' skills in software development and problem-solving, enabling them to design and develop engineering tools effectively. Action 2: Workshops are conducted to provide live demonstrations of tool design and creation, empowering students to work independently in various engineering environments.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.5	2.90	Target Level has been achieved
Action 1: Students are encouraged to conduct a variety of experiments and analyze their findings to derive valid conclusions. Action 2: The scope of research and investigation is expanded by inviting industry experts to share their expertise, enabling students to synthesize information and draw meaningful conclusions.			
PO 5 : Modern Tool Usage			
PO 5	2.5	2.93	Target Level has been achieved
Action 1: Subject matter experts conduct workshops to educate students on selecting appropriate tools based on technical criteria. Action 2: The department organizes field trips to various engineering sites, enabling students to enhance their understanding and practical application of different tools.			
PO 6 : The Engineer and Society			
PO 6	2.5	2.91	Target Level has been achieved
Action 1: The college encourages students to participate in programs such as NSS and the Lion's Club to broaden their social perspective and community engagement. Action 2: Faculty members, along with students, actively engage in community development initiatives, emphasizing the importance of societal well-being and social responsibility.			
PO 7 : Environment and Sustainability			
PO 7	2.5	2.95	Target Level has been achieved
Action 1: Paper and poster presentations are organized to help students understand the interconnectedness of environmental and global systems. Action 2: Emphasis is placed on hands-on learning and community service to educate students on sustainable practices and their practical applications.			
PO 8 : Ethics			
PO 8	2.5	2.93	Target Level has been achieved

Action 1: Weekly classroom sessions are conducted to foster overall personality development, encourage professional ethics, and promote active participation for a successful career. Action 2: The college organizes ethical awareness training programs to enhance students' understanding and consciousness of ethical practices.

PO 9 : Individual and Team Work

PO 9	2.5	2.91	Target Level has been achieved
Action 1: To enhance the professional learning process, the department evaluates presentations, including PowerPoint slides, supported by reports and data for validation. Action 2: Faculty members actively engage in research activities, encouraging both individual and team contributions to familiarize students with a real-world work environment.			

PO 10 : Communication

PO 10	2.5	2.94	Target Level has been achieved
Action 1: The college introduces Cambridge Assessment English, an English proficiency development course, to enhance students' communication skills. Action 2: Trainers conduct language and soft skills training programs to help students bridge the gap between formal and informal language, ensuring a smooth transition from academic to professional environments.			

PO 11 : Project Management and Finance

PO 11	2.5	2.91	Target Level has been achieved
Action 1: Industry experts provide insights into real-life scenarios to instill a professional approach in students' training. Action 2: Workshops on financial management are conducted to equip students with essential skills for effectively managing budgets in technical projects.			

PO 12 : Life-long Learning

PO 12	2.5	2.93	Target Level has been achieved
Action 1: The department organizes expert talks to familiarize students with emerging industry trends and corporate requirements. Action 2: Students are encouraged to attend workshops and seminars to understand the significance of continuous learning in achieving their long-term career goals.			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Ability to analyze, design and develop Mechanical systems to solve the Engineering problems by integrating thermal, design and manufacturing Domains.			
PSO 1			
PSO 2 : Ability to succeed in competitive examinations or to pursue higher studies or research.			
PSO 2			
PSO 3 : Ability to apply the learned Mechanical Engineering knowledge for the Development of society and self.			
PSO 3			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

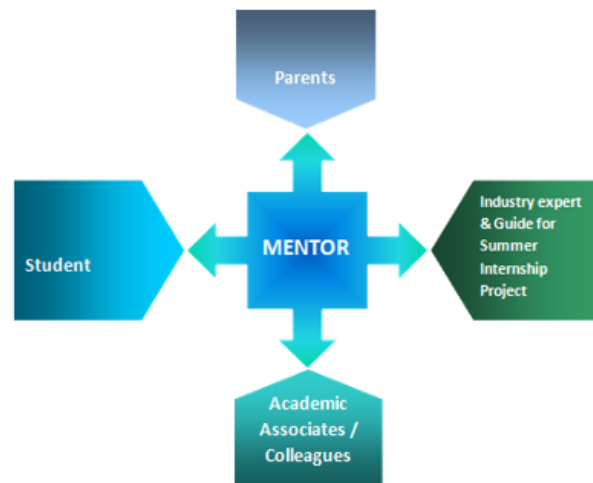
The mission of the Student Mentoring Services is to assist all students in the following areas:

- Develop effective learning strategies
 - Strengthen personal motivation
 - Maintain academic achievement
 - Offer support in setting academic goals
 - Enhance the overall student experience
 - Delivery of workshops and study groups
- Number of Faculty mentors: 6

Number of students per mentor: 20 or less Frequency of meeting: Minimum twice in a month


S.NO	Type of Mentoring	Yes/No	No. of Mentors	No. of Students per Mentor
1	Professional guidance	Yes	All faculty members who are handling the class for the students	15-20 per mentor
2	Career advancement	Yes		
3	Course work specific	Yes		
4	Lab specific	Yes		
5	Total development	Yes		

- Each student has to fill up and maintain a Student diary with details of parents/guardian, addresses, contact numbers and an academic history of student marks in all public examinations and class tests in the Engineering courses.
- Any personal difficulties of the student will also be discussed and the student will be directed to professional counselors, if required.
- The parents shall always be informed regarding the progress as well as problems, if any, of the students.
- Mentor shall also keep a track of the academic journal prepared by the student detailing what he/she has learnt in every period.
- Students' participation in arts and sports items and his personality and character will also be graded by the mentor which can be viewed by the HOD and Principal. Corrective advice is given, if necessary.



The Mentoring Format used in the college is shown below:

The Mentoring Format used in the college is shown below:



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution)
(Affiliated to JNTU, Hyderabad, Approved by AICTE - Accredited by NBA & NAAC - 'A' Grade - ISO 9001:2015 Certified)
Main Campus: Dabulpalle (Dist. Komurupalle), Secunderabad - 500100, Telangana State, India.
Contact Number: 040-23792146/64634217, E-Mail ID: mrcet2004@gmail.com, website: www.mrcet.ac.in

STUDENT COUNSELING / MENTORING
BATCH: 2023 - 2024

Student Name : _____

Hall Ticket No : _____ Class: _____

Date of Birth : _____ Gender (Male/Female): _____

Category : BC (A/B/C/D) / SC / ST / OC / EBC / PH / Others

Blood Group : _____

Mode of Transportation : RTC / College Bus / Own Transport

EAMCET / ICET : Hall Ticket No: _____ Rank: _____

Aadhar Number : _____

Address for Communication : _____

Tel. No (Resi.) / Mobile : _____

E-Mail Id : _____

Skills required : Soft Skills / Presentation Skills / Written/Oral Communication

PARENT DETAILS:

	Name	Occupation	Designation	Organization	Phone No.
Father					
Mother					

ACADEMIC PERFORMANCE:

Name of the Board	Name of the School/College	Year of passing	Medium of Study	% of Marks
10 th Class (SSC/ CBSE)				
Intermediate / Diploma				

Name of the Counselor/Mentor: _____

ACADEMIC PERFORMANCE

IIV – B.Tech: I Semester

Subject	Grade	Grade Point	Result	Course Credits

ATTENDANCE PARTICULARS:

Month	Aug.	Sept.	Oct.	Nov.	Dec.
Percentage					
Remarks					

Results: Promoted / Detained Reason: _____

EXTRA, CO-CURRICULAR ACTIVITIES:

- Seminars/Workshops:
- Awards/Prizes:

Counselor Remarks/suggestions:

Counselor Suggestions	Student/Parent Remarks

PARTICIPATION LEVEL:

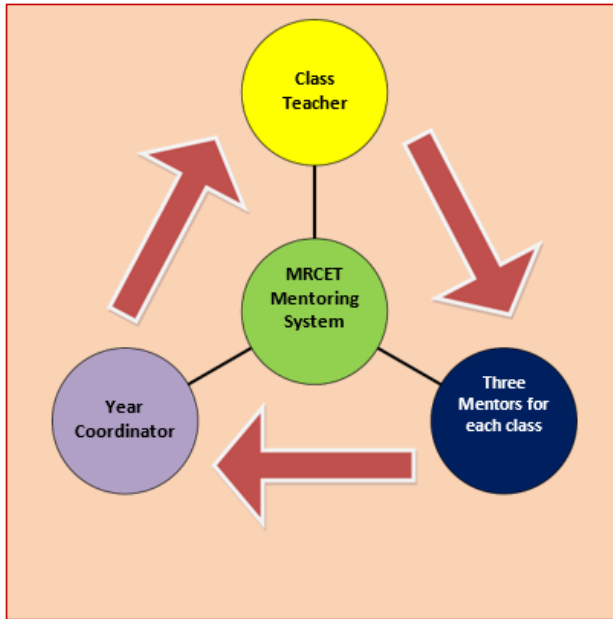
Excellent Very Good Good Satisfactory

Signature of the Counselor Signature of Head of the Department Principal

Mentors address the concerns of the students that they may have during the course of their studies. Mentoring can help students to:

- Identify and clarify personal and professional goals
- Face challenges with greater ease and confidence
- Get back on track when distracted
- Develop strategies and action plans that yield results
- Stay motivated and committed until graduation

The mentoring system followed in the college is given below:



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
 Maisammguda, Dhulapally Post, Secunderabad 500 100
 DEPARTMENT OF MECHANICAL ENGINEERING

II-I (2024-2025) MENTOR LIST

S.NO.	NAME OF FACULTY	PHONE NOS	ROLL NO.
1	Ms. K. NAVYASRI	7337377374	23N31A0301-23N31A0317
2	Mr. D. MANI KUMAR	9095769400	23N31A0318-23N31A0330+LE'S

III-I (2024-2025) MENTOR LIST

S.NO.	NAME OF FACULTY	PHONE NOS	ROLL NO.
1	Mr. C. Daksheeswara Reddy	9703412655	22N31A0301-22N31A0317
2	Mr. Soma Vivekananda	9985691170	22N31A0318-22N31A0330+LE'S

IV-I (2024-2025) MENTOR LIST

S.NO.	NAME OF FACULTY	PHONE NOS	ROLL NO.
1	Mr. Vennam Gopala Krishna	9700571475	21N31A0301-21N31A0320
2	Dr. R. Hussain vali	8885631754	21N31A0321-21N31A0340
3	Mr. K. Bicha	9505771214	21N31A0341-21N31A0360+LE'S

9.2 Feedback analysis and reward /corrective measures taken, if any (10)

Total Marks 10.00

Feedback Collection Process:

The feedback is taken from the students once in a semester for every class of II, III and IV Year.

S.NO	ITEM	RESPONSE
1	Feedback collected for all courses	YES
2	Specify the feedback collection process	In one of the regular classes earmarked for the Purpose.
3	Who collects the feedback	Members of Faculty
4	When feedback is collected	Twice in the semester
5	Percentage of students participating	95%
6	Is this done manually	YES
7	What metrics are calculated	Regularity, Coverage of fundamental concepts, Preparing the students for exam, Innovative practices followed, evaluation procedure and personal interaction with students
8	What is inferred from the metrics	The regularity and punctuality of the teacher, capability to interact with students, teaching skills and ability to motivate interest in the subject
9	How are the comments used	The comments from students are considered and same will be communicated to respective faculty members for their improvement in future.

The format of the Feedback form is shown below.

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY										
STUDENTS FEEDBACK FOR THE ACADEMIC YEAR 2024-2025										
B.TECH YEAR - Branch: SECTION:										
Appeal to the students - your valuable feedback about the course will be of great helpful to the department to enhance the quality of teaching & learning proces.kindly give your rating for all the items listed for the subjects mentioned. The rating is with respect to 5 point scale as given below.										
5 - Excellent		4 - Very Good		3 - Good		2 - Satisfactory		1 - Below Average		
S.No.	Subjects	Faculty Name	Subject Knowledge	Lecture Material/Notes	Presentation Skills	Students Motivation	Command over the Class	Regularity / Punctuality	Assignment / Question Answer Sessions	Overall Rating
1										
2										
3										
4										
5										
6										
7										
8										

After taking the feedback from the students, the score given by the students is consolidated and analysis is done for every faculty of the concerned subject.

Indices used for measuring the quality of teaching are as follows:

S.No	Rating	Score
1	Excellent	5
2	Very Good	4
3	Good	3
4	Satisfactory	2
5	Below Average	1

Once the analysis is ready, Principal, Director, and Head of the Department inform to each individual faculty and corrective measures are taken for the subjects where the feedback is less.

The feedback and analysis for the three Academic Years is given below.



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

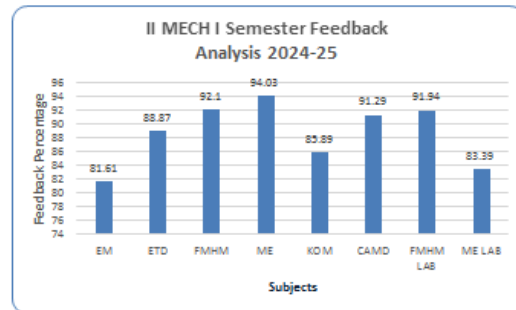
Maisamguda, Dhulapally Post, Secunderabad 500 100

DEPARTMENT OF MECHANICAL ENGINEERING

II – I SEMESTER FEED BACK ANALYSIS 2024-25

II MECH

S.No	Subject	Name of the Faculty	Feedback obtained (%)
1	EM	MR CH NARAYANA MURTHY	81.61
2	ETD	DR D DAMODARA REDDY	88.87
3	FMHM	Y DILIP KUMAR	92.10
4	ME	DR P SRIKAR	94.03
5	KOM	K NAVYASRI	85.89
6	CAMD	DR B SANDHYA RANI	91.29
7	FMHM LAB	Y DILIP KUMAR	91.94
8	ME LAB	DR K CHANDRA SEKHAR	83.39

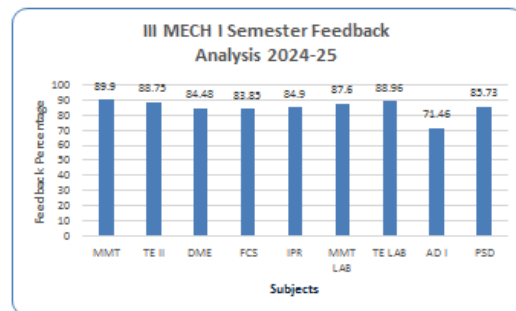



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

Maisammaguda, Dhulapally Post, Secunderabad 500 100

DEPARTMENT MECHANICAL ENGINEERING
III – I SEMESTER FEED BACK ANALYSIS 2024-25
III MECH

S.No	Subject	Name of the Faculty	Feedback obtained(%)
1	MMT	MR CH DAKSHEESWARA REDDY	89.90
2	TE II	DR HUSSAIN VALI	88.75
3	DME	MR D MANI KUMAR	84.48
4	FCS	MR S VIVEKANANDA	83.85
5	IPR	DR D DAMODARA REDDY	84.90
6	MMT LAB	MR C DAKSHEESWARA REDDY	87.60
7	TE LAB	DR HUSSAIN VALI/MR V GOPALA KRISHNA	88.96
8	AD I	DR T LOKESWARA RAO	71.46
9	PSD	MS S SWAPNA	85.73

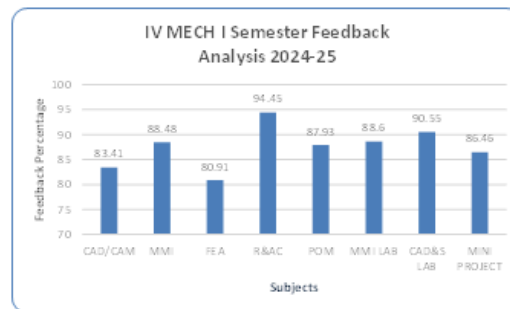



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

Malsammsuda, Dhulapally Post, Secunderabad 500 100

DEPARTMENT OF MECHANICAL ENGINEERING
IV – I SEMESTER FEED BACK ANALYSIS 2024-25
IV MECH

S.No	Subject	Name of the Faculty	Feedback obtained (%)
1	CAD/CAM	MS INDRAJA BHADRI	83.41
2	MMI	MR K BICHA	88.48
3	FEA	DR Y DILIP KUMAR	80.91
4	R&AC	MR V GOPALA KRISHNA	94.45
5	POM	MS S DEEPTHI	87.93
6	MMI LAB	MR K BICHA/MR VSAI SRIKANTH	88.60
7	CAD&S LAB	MS S DEEPTHI/ MS INDRAJA BHADRI	90.55
8	MINI PROJECT	DR Y DILIP KUMAR/ DR HUSSAIN VALI	86.46





MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
 Maisammaguda, Dhulapally Post, Secunderabad 500 100
 DEPARTMENT OF MECHANICAL ENGINEERING
II, III & IV B.TECH II SEMESTER FEEDBACK ANALYSIS
A.Y. 2023-24

S.No	Name of the Faculty	Subject 1	Subject 2
1	Dr.Potnuru Srikar	94.03% (ME-2 MECH)	--
2	Dr.Desu Damodara Reddy	88.87% (ETD-2 MECH)	84.90% (IPR -3 MECH)
3	Dr. B.Sandhya Rani	91.29% (CAMD- MECH)	86.5% (CAEG-1 CSE E)
4	Dr. T. Lokeswara Rao	71.46% (AD-I -3 MECH)	--
5	Dr. Sridhar Akarapu	83.5% (CAEG-1 CSE AIML C)	
6	Dr.Kondaveeti Chandra Sekhar	80% (PPG -2 CSE E)	87.4% (AM-3 MECH)
7	Dr.B.Hussain vali	88.75% (TE-II- 3 MECH)	
8	Dr.M.Mohammed mobaideen	83.6% (CAEG-1 CSEG)	--
9	Dr. Krishna Anand V G	83.6% (CAEG-1 CSEG)	
10	Dr.Yangaladasu Dilip Kumar	92.10% (FMHM-2 MECH)	80.91% (FEA- 4 MECH)
11	Dr. Jadam Thrinadh	82.9% (CAEG-1 CSE DS)	--
12	Mr.K.Bijha	88.48% (MMI-4 MECH)	
13	Mr.C. Daksheeswara Reddy	89.90% (MMT-3 MECH)	83.5% (CAEG-1 CSE A)
14	Ms.S.Deepthi	87.93% (POM- 4 MECH)	84.5% (CAEG-1 CSE B)
15	Mr.Soma Vivekananda	83.85% (FCS -3 MECH)	82.5% (CAEG-1 CSE D)
16	Mr.Vennam Gopala Krishna	94.45% (R&AC- 4 MECH)	90.4% (PPG -2 CSE G)
17	Ms.Indraja Bhadri	83.41% (CAD/CAM-3 MECH)	88.4% (PPG- 2 DS B)
18	Mr. S. Shallesh Babu	82.9% (ECHW-1 ECE A)	
19	Mr.Chandragiri Narayana Murthy	81.61% (EM-2 MECH)	81.5% (CAEG-1 CSE C)
20	Mr.Dommeti Mani Kumar	84.48% (DME- 3 MECH)	81.5% (CAEG-1 CSE D)

21	Mr. Sai Srikanth	80.9% (CAEG-1 CSE A)	81.2% (CAEG-1 CSE F)
22	Ms. K. Navyasri	85.89% (KOM-2 MECH)	84.5% (CAEG-1 CSE B)
23	Mr. Kolimi Bharath bhushan Reddy	79.4% (ECHW-1 EEE)	

Basis of reward/corrective measures, if any:

System of Reward:

- Best faculty award is given based on student's feedback, HOD's evaluation, the faculty's self-appraisal report and the marks given by Faculty appraisal committee, headed by Principal. The increments and promotions are also bearing some effect on these scores.
- Level of feedback is taken into account while evaluating the staff for promotion. Performance rating of faculty through student feedback system is one of the factors in evaluating the annual performance of the faculty.
- Based on the annual performance of the faculty the annual increments are released.

Corrective Measures:

- The faculties performing below average are asked for written explanation and counseled to improve their performance in future.
- Senior faculty attends the class of the concerned teacher and the mode of improvement in teaching is suggested.
- Those teachers who have not obtained good appraisals have a detailed discussion with the HOD on how to improve the teaching. Both study the metrics where the teacher has failed to impress the students and steps charted out, for improvement.
- If the subject is new, concerned teachers are deputed for training.
- Faculty development program is conducted regularly for all teachers who are new to the profession.



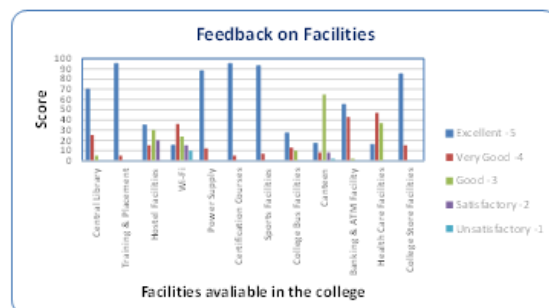
9.3 Feedback on facilities (5)

Total Marks 5.00

The feedback is taken from 100 students on the facilities provided in the college and the consolidated results are given below

S.No	Name of the Facility	Score				
		Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Unsatisfactory (1)
1	Central Library	70	25	5	-	-
2	Training & Placement	95	05	-	-	-
3	Hostel Facilities	35	15	30	20	-
4	Wi-Fi	15	36	24	15	10
5	Power Supply	88	12	-	-	-
6	Certification Courses	95	05	-	-	-
7	Sports Facilities	93	07	-	-	-
8	College Bus Facilities	27	13	10	-	-
9	Canteen	17	08	65	08	02
10	Banking & ATM Facility	55	43	02	-	-
11	Health Care Facilities	16	47	37	-	-
12	College Store Facilities	85	15	-	-	-

Analysis:



Corrective Action Taken:

From the above analysis, we can observe that the students expressed Satisfactory/Unsatisfactory for the facilities provided listed in the following table for which the corrective action taken is also mentioned

S.No	Name of the Facility	Score		Corrective Action Taken
		Satisfactory	Unsatisfactory	
1	Hostel Facilities	20	-	Some students are not happy with hostel food, wash rooms availability. Necessary measures have taken in improving hostel food by forming a student committee to monitor and follow a systematic food chart per week as per majority students wish. Hygienic conditions of wash rooms are improved and more number are made available in proportion to the students occupancy
2	Wi-Fi	15	10	Measures are taken in providing more number of Wi-Fi routers so that un interrupted internet is available in the campus.
3	Canteen	08	02	College Canteen Committee is formed which will take care of the quality of the food provided by the canteen and charges for each food item. Canteen timings also modified and made available for 1 hour more even after college hours so that students staying after college hours will not face any problem

9.4 Self-Learning (5)

Total Marks 5.00

9.4.1 Scope for self learning

The department initiates in the academic and allied activities of the college to nurture critical thinking, self learning, creativity and scientific temper among students. The college believes that self-learning and learning beyond syllabus have a great scope in the development of the career of an engineer.

Everything in engineering cannot be taught in the class room or laboratories. The explosion in knowledge related to applied science and engineering during the last century has been so much that four years is too short a period even to cover one branch of engineering.

This fact calls for the relevance for self-learning for young engineers. What an institution should do is to provide adequate facilities for self learning to students so that they get motivated to learn more and more and ultimately become life-long learners and innovators.

Motivation for self-learning should be provided in the classrooms. They should also be motivated to do things themselves so that they gain confidence to try anything with their own hands. An intuition should provide ample opportunities and facilities for these to students.

Students are given assignments, practical projects, to promote self learning. Learning Resource Centre, University LAN and internet resources help in self learning. The B Tech projects given to the students in final year also provide a good tool of self learning where students gain practical knowledge to achieve objectives of the project.

9.4.2 Generation of self-learning facilities, and availability of materials for learning beyond syllabus

Web-based Learning:

The internet is an open information system from where the students can obtain various kinds of information, media and materials such as texts, images, video sequences which can help them in a diverse way for generating self-learning environments. Due to its interactivity, learners (students) can gather information which is important in learning and helpful in accomplishing their learning objectives. Hence, the potential of the Internet self-learning mode is considered to be very high. Therefore, the Institute provides internet facility in both the academic and hostel campuses for 24 hours to promote and motivate students to self-learning. The availability of internet facility allows them to learn and to gather the information from worldwide network without any interruptions.

The following facilities are provided to the students for their self-learning and learning beyond syllabus.

Infrastructure:

1. 24/7 internet access with Wi-Fi connectivity
2. Smart classrooms with audiovisual aids
3. Software's, Language lab, Computer Labs etc.

Learning resources:

1. Committed faculty who motivate students in the process of their learning
2. Reputed Journals from IEEE, ACM, Springer, Wiley etc.
3. Online Databases and Digital Video
4. Licensed Soft wares.

Learning with Multi-media:

Providing the information related to various web-based learning sites:

- NPTEL
- MITOPENCOURSEWARE
- SCHOOL OF OPEN LEARNING, etc.

Availability of course material on intra-net Digital Library facility LCD projectors for presentation

Technical Symposiums:

Organizing annual events like, Electrosurge, SPCOM and various contests. Organizing various events like poster presentation, debate, awareness, etc. Motivating students to participate in inter- college events for paper presentation and project exhibitions.

The institution supports teachers to make learning efficient. The college provide a central library with all latest books and journals which the faculty can utilize effectively and provide comprehensive latest information to students. Students are encouraged to use the library independently to enhance their skills and knowledge.

Apart from this college provides seminar halls where the students can participate in group discussions, debates, seminars etc. The institution and faculty members support and encourage every student to make use of Internet, computers and latest technologies available to upgrade themselves in their respective field of studies.

Student projects:

Each student is assigned a Mini project during Third year II semester and a Main project during Final year second semester. The students have the freedom to select projects of their choice in consultation with teachers. Execution of these projects by themselves goes a long way in developing independent thinking, organizing various elements of work in the project and finding solutions to problems they face. These projects inculcate creativity and innovative mind among students. The execution of these projects will help to lifelong learners and innovators.

Promotion of research among Students:

The institution has taken keen interest to promote research culture among students. The steps taken in this regard at the college level are listed below:

1. Constitution of a Research Committee to mentor and monitor research among students and to inculcate a scientific and research environment in the college
2. Research project for all students are carried out in the campus itself to make them more research oriented.
3. Training programs at different levels are organized to introduce upcoming technologies
4. Encourage research paper presentations in National and International Seminars
5. Personal mentoring and guidance by the research supervisor throughout the research Process.
6. Scope for publishing eligible research results in the College Research journal.

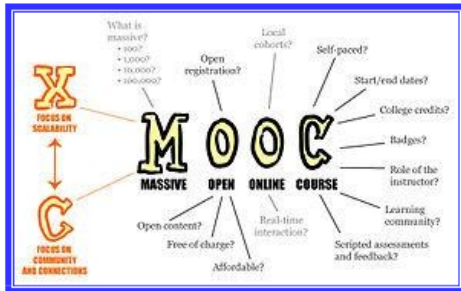
These activities initiated by the college for promotion of research motivate students to think independently and go for self-learning and to learn their subjects of interest beyond syllabus

The list of NPTEL Video lectures available in the department are mentioned below:

NPTEL Video Lectures Video lectures given by professors from IIT's	
S.No	Name of the Subject
1	Engineering Mechanics
2	Engineering Thermodynamics
3	Theory of Machines
4	Machine Design
5	Applied Thermodynamics
6	Computer Aided Machine Design
7	Strength of Materials
8	Finite Element Analysis
9	Computer Integrated Manufacturing Technologies
10	Operations Research
11	Manufacturing Process
12	Power Plant Engineering

MOOCs

A **massive open online course (MOOC)** is an [online course](https://en.wikipedia.org/wiki/Online_course) (https://en.wikipedia.org/wiki/Online_course) aimed at unlimited participation and open access via the web (https://en.wikipedia.org/wiki/World_Wide_Web). In addition to traditional course materials such as filmed lectures, readings, and problem sets (https://en.wikipedia.org/wiki/Problem_set), many MOOCs provide interactive user forums to support community interactions among students, professors, and teaching assistants (https://en.wikipedia.org/wiki/Teaching_assistant) (TAs)








The college is providing Online Training courses in association with **Globarena Technologies Pvt. Ltd., Hyderabad**, pioneers in providing Online Training for Professional Skills Development (PSD) Program provided for students.

Similarly many certification courses are conducted for students on regular basis to nurture them and make them Industry ready engineers.






The lists of certificate courses conducted in the department are given below:


S.No	Name of the Program/Course	Duration	Year/Semester	Name of the Issuing Authority
1	Oxford Achiever	2 months	B.Tech	Oxford University Press
2	Codtantra	1 Year	B.Tech	Codtantra Certification
3	wadhvani	1 months	B.Tech	wadhvani foundation
4	IEEE CDAC	5 months	B.Tech	Government of India
5	coursera	3 month	B.Tech	coursera Certification
6	GEN AI STUDY JAM	1 month	B.Tech	Google developer groups

MRCET LIBRARY e-Resource

PUBLISHER	SUBJECTS	E-CONTENTS	URL/IP BASED MULTIUSER SERVICE
 IEEE Xplore Digital Library	Electrical Electronics Computer Science Telecommunication	174 E-Journals Back File To 2005 370,000 Articles	URL: http://IEEEExplore.ieee.org IP based multiuser
 Springer	Mechanical Engineering	49 E-journals ASME's transaction journals from 1997 to the present.	URL: http://www.springer.com IP based multiuser
 Delnet Electronic Library Network	Engineering Management Architecture	Journals Books Databases Thesis	URL: http://delnet.nic.in
 MRCET Learning your knowledge center	Engineering Management	11000+NPTEL- Videos 500-Projects 1500+ Software Tutorial Videos 2500-Companies Information 2000+Universities Information	URL: http://mrcet.ac.in
 J-Gate Bridges E-Journal Gateway	Social & Management Sciences (JSMS) Engineering & Technology (JET)	49,144 e-Journals Full Text Access	URL: http://www.jgate.in IP based multiuser



PUBLISHER	SUBJECTS	E-CONTENTS	URL/IP BASED MULTIUSER SERVICE
	open access, peer-reviewed journals	11,413 Journals 7,093 searchable at Article level 136 Countries 2,222,621 Articles	URL : http://doaj.org/
	Free Education Online	Video Tutorials: 30741 Live Animations: 410 PowerPoint Presentations: 359	URL : http://www.learnerstv.com/
	Two-way HD Delivery Mechanism, and Engineering E-learning Courseware.	e-Learning Solutions and Two-Way HD Delivery Mechanism for Teachers & Students (elude)	URL : www.jntuh-elsdm.in
National Digital Library	General Engineering and Reference	Books, Article, Thesis, Manuscript, Audio & Video Lectures	URL : https://ndl.iitkgp.ac.in
	Teaching Learning Resources	Video lecture, Reading material-downloaded/Printed, Self-assessment tests and online discussion	URL : https://swayam.gov.in
	Group of 32 DTH channels devoted to telecasting of high-quality educational programmes on 24x7 basis using the GSAT-15 satellite. Every day.	Video lectures and Material	URL : https://www.swayamprabha.gov.in

PUBLISHER	SUBJECTS	E-CONTENTS	URL/IP BASED MULTIUSER SERVICE
	Humanities, Management and Engineering NPTEL online videos, courses	NPTEL, IIT Lectures, Courses, Videos, Engineering & Management Online, video lectures.	URL : www.nptelvideos.in

9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

To make a career and thus a living is very important in a life. Students have to be very objective in deciding a career.

Career choice made turns the life of a person by a great measure. Although **salaries** matter, if students get into a field which they love, they will be happy throughout their life.

Many experts predict the emergence of new roles in the coming years with specialized **educational courses** evolving to serve the industry. The job market has become very dynamic over the years and you have to be very careful while deciding job role or else a course that qualifies students for it.

MRCET has a very strong Training, Placement & Career Guidance Cell which will take care of provide training as per companies requirement and guiding the students as per their choice.



MRCET Training, Placement & Career Guidance Cell

Vision:

The MRCET Training, Placement & Career Guidance Cell is committed to the professional progress of students through integrating the career issues within an academic environment for realizing their best possible career path.

Mission:

The MRCET Training, Placement & Career Guidance Cell will help the undergraduate, postgraduate and MBA students through counseling, instructions and training for development of desired skills essential for suitable job profile/ higher education/ self employment and inviting the Corporate Industries / Research or Academic Institutes/ Commercial Organizations/ Public Sector Undertakings for campus placement.

Objectives:

- To prepare students to face campus interviews by arranging training in Aptitude tests, group discussions, preparing for Technical and HR interviews through professional trainers.
- To organize campus interviews for final year students and summer internship(training) for third year students with industries and reputed business from all over India
- To promote career counseling by organizing guidance lectures by senior corporate personnel.
- Maintaining regular interaction with the industry through Seminars, Guest Lectures, Conferences, Corporate Meets etc
- Providing requisite training to students in the area of Personality Development and Communication Skills
- Collaborate with industry for live projects, Research work, Workshop or any academic alliance, Industrial visit with many industrial organizations.

Advisory Board:

S.No	Designation	Name	Status
1	Principal	Dr.S.Srinivasa Rao	Principal
2	Dean- Placements	Prof K. Kailasa Rao	Dean
3	Placement Coordinator – ECE	Mr.santosh kumar	Member
4	Placement Coordinator – CSE	Mr.siva.kumar.N	Member
	Placement Coordinator – CSE AIML	Mr.N Satish	Member
	Placement Coordinator – CSE ET	Mr.Anvesh	Member
5	Placement Coordinator – IT	Mr.Uma maheswara Rao	Member
6	Placement Coordinator – ANE	Mr.yugendar	Member
7	Placement Coordinator – MECH	Dr.Hussain.vali	Member
8	Placement Coordinator – MBA	Mr.Satish	Member



PLACEMENT DETAILS

LIST OF PLACEMENTS FOR THE ACADEMIC YEAR : 2023-24				
S.No	Name of the Student	H.T.No	Name of the Employer	Appointment Letter Reference No. with date
1	BHUKYA GANESH NAYAK	20N31A0351	ITC LIMITED	ITC LIMITED/EMAIL/28/08/2024
2	MOHAMMAD IBRAHIM	20N31A0359	ITC LIMITED	ITC LIMITED/EMAIL/28/08/2024
3	BHUKYA. NAVEEN	20N31A0306	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2024
4	GHANAMUKHI HEMANTH	20N31A0318	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2025
5	K SUJETH	20N31A0321	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2026
6	BARIGE RAVI KUMAR	20N31A0350	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2027
7	THOTLA ARUNA	21N35A0306	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2028
8	SAHANI DEEPAK	20N31A0342	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2028
9	CHOUDARI RAKESH	20N31A0353	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2027
10	DEVI REDDY SUJITH REDDY	20N31A0310	VALEO PRODUCTS LLP-GEN INFO	VALEO PRODUCTS LLP/EMAIL/15/03/2027
11	ALLAM NITHIN REDDY	20N31A0301	TVS Sundram Fasteners Ltd	CN032406315
12	ANUGUBARI VENKATESHWAR REDDY	20N31A0302	TVS Sundram Fasteners Ltd	CN032406531
13	DHARAVATH ABHIDAS	20N31A0311	TVS Sundram Fasteners Ltd	CN032406247
14	IMARUTHI VAMSHI KRISHNA	20N31A0333	TVS Sundram Fasteners Ltd	CN032406987
15	NARADALA RAKESH	20N31A0335	TVS Sundram Fasteners Ltd	CN032406149
16	NEELAM KARTHIK	20N31A0336	TVS Sundram Fasteners Ltd	CN032406978
17	POOJAM DEEPAK	20N31A0339	TVS Sundram Fasteners Ltd	CN032406143
18	PRAJAPATI ALOK KUMAR	20N31A0340	TVS Sundram Fasteners Ltd	CN032406150
19	SANGATI SAI KUMAR REDDY	20N31A0343	TVS Sundram Fasteners Ltd	CN032406348
20	BAKKANOLLA GOVARDHAN	20N31A0349	TVS Sundram Fasteners Ltd	CN032406148
21	KALLURI TARUN TEJA	20N31A0356	TVS Sundram Fasteners Ltd	CN032406188

22	MANGALI SANDEEP KUMAR	20N31A0358	TVS Sundram Fasteners Ltd	CN032406687
23	PEDDAGOLLA SRISHYLA	21N35A0301	TVS Sundram Fasteners Ltd	CN032412013
24	SAI AKHIL MAROJU	21N35A0303	TVS Sundram Fasteners Ltd	CN032406265
25	THALLAPALLI NAVEEN	21N35A0304	TVS Sundram Fasteners Ltd	CN032406136
26	THATIKANTI ADITHYA	21N35A0305	TVS Sundram Fasteners Ltd	CN032406148
27	PATHLAVATH VITTAL	20N31A0338	FOXCONN	FOXCONN /EMAIL/20/02/2024
28	RASOORI SRAVANI	21N35A0302	FOXCONN	FOXCONN /EMAIL/20/02/2025
29	ATHRAM RAMAKRISHNA	20N31A0303	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2024
30	ATTHI SAIKIRAN	20N31A0304	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2025
31	BOLLAPELLI VIVEK	20N31A0308	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2026
32	BONEPALLY SAHITH REDDY	20N31A0309	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2027
33	VERIPETTI VAMISHI	20N31A0320	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2028
34	KETHAVATH SRINIVAS	20N31A0323	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2029
35	MARRI MANOJ KUMAR REDDY	20N31A0331	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2030
36	MARUKONDA SHIVASAI	20N31A0332	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2031
37	SEELAM NARENDAR	20N31A0344	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2032
38	THOKALA NARESH	20N31A0346	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2033
39	BOGA SANTHOSH	20N31A0352	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2034
40	DAIDA JEEVAN	20N31A0354	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2035
41	MAMMAI ANIRUDH	20N31A0357	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2036
42	MOHAMMED IMRAN	20N31A0360	Global Logic	GLOBAL LOGIC/EMAIL/06/04/2037
43	LAYAKAR RUGVEDH BOLLA	20N31A0327	CADFEM	CADFEM/EMAIL/22/05/2024
44	GUDIVENUKA MANIDEEP	20N31A0319	Anagha Spaces Private Limited	Anagha Spaces Private Limited/EMAIL/07/05/2024
45	ANUGUBARI VENKATESHWAR REDDY	20N31A0302	WRIGHT STATE UNIVERSITY	SEVIS ID: N0035456469
46	LAVUDYA SRINIVAS	20N31A0326	University of Cincinnati	SEVIS ID: N0035344389

47	BOBBILLAPATI SURENDAR	20N31A0307	AERIES	AERIES/EMAIL/09/01/2025
48	G PRATHIK	20N31A0312	IT SYNTAX	IT SYNTAX/EMAIL/15/07/2024
49	GOUNDLA VINOD KUMAR	20N31A0355	University of North Carolina at Charlotte	SEVIS ID: N0035445897
50	KANAKURTI SANJAY	20N31A0322	University of North Carolina at Charlotte	SEVIS ID: N0035392837
51	RAMINENI BHOGEENDHRANATH	20N31A0341	Central Michigan University	SEVIS ID: N0035431824
52	KOTARI SREE NIKHIL	20N31A0345	TATA ADVANCE SYSTEMS	TBAL/I L/289
53	BAKKANOLLA GOVARDHAN	20N31A0349	NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA	224ME7018

MRCET Entrepreneurship Cell**VISION**

Producing successful entrepreneurs imbued with leadership qualities, Technical skills and above all passionate approach by using innovative and ethical business practices to make an effective global impact.

MISSION

Unlock the innovative business opportunities and outcomes along with market updating among students to pursue entrepreneurship.

EDC/IIPC- THE ASSOCIATION

MRCET professional association with an **Industry-Institute Partnership Cell (IIPC)** sanctioned by the All Indian Council for Technical Education (AICTE) which definitely acts as an interface between the industries and Institute to take up collaborative activities in the fields of innovative practices and entrepreneur development. Entrepreneurship development cell has taken a revolutionary responsibility to generate the entrepreneurship skills among the students and help them to capitalize their ideas and achieve concrete goals to become a versatile entrepreneur. Moreover, we also give exposure of industrial sector to the challenging young minds to gain the perfect idea of market need and requirements. The system for the execution of EDC is initiated by different departmental faculty members and student coordinators. Contribute to global challenges and create a better society.

EDC /IIPC- OBJECTIVES

Entrepreneurship development cell bridges the gap between ideas to develop new innovative market. The IIPC has eventually led to the start of EDC to boost up the concrete mindset of enthusiastic students who want to excel in the different fields of today's competitive business world. To strengthen the bond between industries and institute it works for following objectives.

- To arrange industrial training for students and identify student project work in industries relevant to industry need.
- To interact with R & D organizations for conducting joint research work.
- To arrange technical exhibitions / project competitions, personality development workshops.
- To arrange short-term tailor made programmes: Duration of 5 to 7 days for the benefit of professionals in various technical disciplines.
- To arrange need based training programme in association with industries by MOU's.

FUNCTIONS

- To organize Entrepreneurship Development Programmes.
- To initiate five innovative student projects each year for new innovative product development.
- To organize Business Plan Competitions.
- To provide technological & logistical assistance and awareness on Monetary fund sources to the prospective entrepreneurs.
- To arrange interaction with entrepreneurs and create a mentorship scheme for student entrepreneurs.
- An Entrepreneurship Development cell in association with Industry Institute Partnership.

EDC /IIPC- FUNCTIONAL ACTIVITIES

Entrepreneurship development cell bridges the gap between ideas to develop new innovative market. The IIPC has eventually led to the start of EDC to boost up the concrete mindset of enthusiastic students who want to excel in the different fields of today's competitive business world. To strengthen the bond between industries and institute it works for following objectives.

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- To interact with R & D organizations for conducting joint research work.
- To arrange technical exhibitions / project competitions, personality development workshops.
- To arrange short-term tailor made programmes: Duration of 5 to 7 days for the benefit of professionals in various technical disciplines.
- To arrange need based training programme in association with industries by MOU's.

FUNCTIONS

- To organize Entrepreneurship Development Programmes.
- To initiate five innovative student projects each year for new innovative product development.
- To organize Business Plan Competitions.
- To provide technological & logistical assistance and awareness on Monetary fund sources to the prospective entrepreneurs.
- To arrange interaction with entrepreneurs and create a mentorship scheme for student entrepreneurs.
- An Entrepreneurship Development cell in association with Industry Institute Partnership

EDC /IIPC- FUNCTIONAL ACTIVITIES

With a purpose of enhancing entrepreneurship skills among students to be self-reliant in the dynamic business world, MRCET act as an instrument to make the conversion of an 'idea' into an 'investment'. The new generation entrepreneurs, corporate executives, guest speakers on various domains covering technology & management are invited to guide and motivate students. Furthermore, we also help them to channelize their requirements in terms of financial, technical and legal aspects.

- To provide the framework for the operation and execution of the new startup.
- To setup a route map for sustaining among the competitors.
- Empowering student entrepreneurial activity and mobilizing new student-led initiatives.
- To get aware of new technology system and get rid from obsolete technology.
- To form links with the Industry Growth Centers.
- To come closer towards practical approaches in the field of new start up corporate world.
- To propose several activity based programmes such as "Business Start-ups", "Innovative Product", 'Technology driven concepts', etc
- To develop professional business plans and facilitating them for investments.

EDC/IIPC -Helping Hand to Student**Incubation Centers**

College initiates and provides office space & equipment, technology support and seed capital to nurture the upcoming entrepreneurial talents .Thus making it more robust and approachable for the individual who has high entrepreneur ambition.

Mentoring

College has dedicated Technical & Business Development mentors to assist students who are coming with the business ideas and to provide entrepreneurship training. The guidance given by mentors plays vital role to start a new venture.

Associations

College has industry associations giving one on one professional network and self-employment tips to establish as successful entrepreneurs. The professional bodies will surely trigger confidence among students to take individual decision and to start their business plans.

EDC/IIPC- Career Outcomes

Small business owner/operator Entrepreneur

Business analyst Entrepreneur

EDC PROGRAMME 2022-23, 2023-24, 2024-25.

S.NO	ACADEMIC YEAR	DATE	PROGRAM TITLE	NAME OF THE SPEAKER
1	2022-23	24th November, 2022	• Motivational session by Success Innovators	R. Ajith Raj Assoc. Prof, Aeronautical Engineering, MRCET Hyderabad
2	2022-23	25th January, 2023	• Design thinking, Critical thinking and innovation design	Dr. Swayam Bikkash Mishra Asst. Prof. KIIT University, Bhubaneswar
3	2022-23	26th April, 2023	• Workshop On Intellectual Property Rights And Management For Start Up	Dr. DINESH KUMAR RAJENDRAN Assistant Professor, National Institute of Technology, Srinagar
4	2023-24	9th November, 2023	• Entrepreneurship and Innovation as Career Opportunity	Mr. Prudhvi Pasala QMS Manager, Magnasoft, Hyderabad, Telangana
5	2023-24	16th February, 2024	• Customer Centric Business	Dr. D. Damodara Reddy Assoc Prof, Department of Mechanical Engineering, MRCET Hyderabad
6	2023-24	24th February 2024.	• Critical thinking, Design thinking Innovation Design	Dr. K. Chandra Sekhar Assoc Prof, Department of Mechanical Engineering, MRCET Hyderabad
7	2023-24	2nd March 2024.	• The Future of Work Adapting to Remote and Flexible Models.	Dr. V.S. Ramanamurthy Assoc Prof, Department of MBA, MRCET Hyderabad
8	2023-24	3rd May 2024.	• Workshop on Intellectual Property Rights & IP management for Start Up	Dr. T. Lokeswara Rao Assoc Prof, Department of Mechanical Engineering, MRCET Hyderabad

9	2024-25	27th July 2024.	• Expert talk on Session discussion with innovation and start Up ecosystem enablers from the region/ state/ national level	Dr. G. Bala Narasimha Assoc Prof, Department of Mechanical Engineering, MRCET Hyderabad
10	2024-25	7th November 2024.	• Expert talk on Motivational Session by Successful Start-Up Founder	M. Yugender Asst Prof, Aeronautical Engineering, MRCET Hyderabad

MRCET Business Incubation Centre

Incubation centre, sponsored by MSME Technology has been established in 2010-11, with the following objectives and programmes:

1. Creation of Technology based incubates on a continuous basis
2. Help to create value added jobs and services
3. Introduction of entrepreneurial culture among students.

4. Create effective networking for the development of technology based start-ups
5. Develop internationally accepted technologies
6. Promote students to come up with commercially viable curriculum projects
7. Create student entrepreneurs
8. Create awareness about Technology Incubation and Commercialization of R & D products and processes.
9. Promote small and medium industries.

Number of Incubation Centre	Year of Establishment	Activities carried out in the Incubation centre	Size of the students batch
1	2011	Innovative Research Promotional Activity Cell, Electronics Students Exclusively	60
2	2010	Innovative Research Promotional Activity Cell for Electronics	60
3	2010	Entrepreneurship Development Cell (EDC)	60
4	2014	Centre of Excellence in Robotics	60
5	2013	Microsoft Innovation Centre	120
6	2013	CISCO Certification Centre	120
7	2013	Centre for Communication Skills	120
8	2013	Global Education and Career Counseling Centre	120

The following fields are identified by the students for the functioning of incubation centre

- Business Development Area in making videogames etc.
- Engineering tool development area
- Small scale industries
- Software Consultancy area

Sponsored / Industrial R & D Projects

S.No	Title of the Project	PI & Co-PI	Organization	Submission Date	Status
1	Design and Analysis of Low Weight Buggy Chassis for Ko-Karting	Dr. B. Sandhya Rani	WRI	19/07/2023	In Process
2	Dr. D. Damodara Reddy	Design And Modification of Carburettor for Petrol- Ethanol Fuel Engine	Turbo Engineering Service	01/08/2023	In Process
3	Dr. Y. Dilip Kumar	Flow Analysis in UAV for Medical Delivery Application	ACCEL UAV PVT. LTD.	13/11/2023	In Process

Industry and University Collaborations:

- Mahindra and Mahindra farm equipment sector, Zaheerabad , india.

- Scientific and Industry Research Organization (SIROs) ,New Delhi.
- Tech Mahindra Pvt.Ltd, Hyderabad.
- National Research Development Corporation, New Delhi.
- Adroit Engineering Solutions Pvt.Ltd, Secunderabad.
- Vellore institute of Technology, Vellore.
- Indian Institute of Technology,Bhilai.
- Karunya Institute of technology and Sciences, Coimbatore.
- Education Matters.
- Bynder Technologies India Pvt.Ltd
- Oracle Academy, Hyderabad.
- MECH ENGG, Hyderabad.
- Northern Arizona University, USA.
- EDCIL (INDIA) LIMITED, New Delhi.
- Advanced center for Atmospheric Sciences, Dept of Physics, S.V. University, Tirupati.
- CSIRL-NAL Bangalore, India

List of MOUs:

- Campx Edutech private Ltd, Hyderabad.
- AIC ALEAP WeHub, Pragati Nagar, Hyderabad.
- Green Fuel Alternatives Pvt. Ltd, Hyderabad
- ECPI University, USA.
- Adroit Engineering Solutions Pvt.Ltd, Secunderabad.
- Northern Arizona University, USA.
- Oxford University press, India.
- NIT Warangal.
- Telangana Academy for Skill and knowledge
- Mahindra and Mahindra
- MSME Tool Room, Hyderabad.
- Oracle Academy
- AICTE MoUs for student Internships
- Hello Robotics
- Indian Institute of Hardware Technology Ltd.
- BARC Training School, NFC.
- Advanced Center for Atmospheric Science, SV University.
- National Aerospace Laboratories.
- Aeronautical Society of India.
- Embedded RF Systems Pvt. Ltd., Hyderabad.
- Serveen Software Systems, Hyderabad.
- Robot space Automation Pvt. Ltd., Hyderabad.

MRCET-MECH Entrepreneurs

S.No	Name of the student	Business
1	SAHANI DEEPAK	BBG MARKETING
2	SHASHI KIRAN	MANUFACTURING BUSSINESS
3	PRUDVI	GOLD BUSSINESS
4	MANIDEEEP	PHOTOGRAPHY
5	GOPI	MACHING INDUSTRY

9.7 Co-curricular and Extra-curricular Activities

Total Marks 10.00

The College views extracurricular and co-curricular activities as integral to the holistic development of students. Opportunities are identified, created and opened to promote student participation in them. Financial support as well as training and development support are provided by the institution appropriately.

The college helps the students in these activities in the following ways.

1. Additional academic support and flexibility in examination times are provided.
2. Students are informed of Special dietary requirements, provided with sports uniform, necessary materials and other relevant information
3. Students organize three days National Techno Cultural fest , Arts day, Ethnic day, College day, Engineers day, Teachers day, Onam and Christmas celebrations.
4. Department organizing seminars / workshops / invited talks from industry/inter college and intra college technical and cultural fest. Student chapters of various professional societies such as IEEE, CSI etc. function in the college.
5. With a view to honing the technical and cultural skills and talents of students, and to promote their aptitude for research and extension, the college offers both technical as well as non-technical clubs.
6. Students are given duty leave to participate in technical and cultural activities organized by the university or any other college.
7. For those who win the competition have been awarded the grace marks along with the internal marks.

CO-CURRICULAR ACTIVITIES

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY					
MECHANICAL ENGINEERING					
Student Achievements-2024-2025					
S.NO	Name of the Activity/workshop	Name of the Student	Award received	Event Venue	Date of event
1	SMART INDIA HACKTHON-2024	NAGUR REHAMATHULLA	PARTICIPATION	MRCET	06 September 2024
2	SMART INDIA HACKTHON-2024	ANKADI MEGHARAJU	PARTICIPATION	MRCET	06 September 2024
3	SMART INDIA HACKTHON-2024	KAMALAM KARTHIK	PARTICIPATION	MRCET	06 September 2024
4	SMART INDIA HACKTHON-2024	NAGALLA SAI VAMSHI	PARTICIPATION	MRCET	06 September 2024
5	SMART INDIA HACKTHON-2024	KOLA ROHITH KUMAR	PARTICIPATION	MRCET	06 September 2024
6	SMART INDIA HACKTHON-2024	KODURI SAI RAKSHITHA	PARTICIPATION	MRCET	06 September 2024
7	SMART INDIA HACKTHON-2024	ANJURU BHARGAVA KUMAR	PARTICIPATION	MRCET	06 September 2024
8	SMART INDIA HACKTHON-2024	CHINNALA CHAITANYA RAJ	PARTICIPATION	MRCET	06 September 2024
9	SMART INDIA HACKTHON-2024	MUNNURU VAMSHI KUMAR	PARTICIPATION	MRCET	06 September 2024
10	SMART INDIA HACKTHON-2024	RAMIREDDY HEMANTH REDDY	PARTICIPATION	MRCET	06 September 2024
11	SMART INDIA HACKTHON-2024	DUBBAKA MANASA	PARTICIPATION	MRCET	06 September 2024
12	SMART INDIA HACKTHON-2024	ANAGANDULA OMKAR	PARTICIPATION	MRCET	06 September 2024
13	SMART INDIA HACKTHON-2024	CHAPALA AVINASH	PARTICIPATION	MRCET	06 September 2024
14	SMART INDIA HACKTHON-2024	BADE AKHIL	PARTICIPATION	MRCET	06 September 2024
15	SMART INDIA HACKTHON-2024	AVUNURI YASHWANTH	PARTICIPATION	MRCET	06 September 2024
16	SMART INDIA HACKTHON-2024	J SIMHA CHARAN	PARTICIPATION	MRCET	06 September 2024
17	MSME-2024	NAGUR REHAMATHULLA	PARTICIPATION	MRCET	28 September 2024
18	PAPER/POSTER PRESENTATION IGNITO	MADASI NIVAS	PARTICIPATION	MGIT	22 November 2024
19	PAPER/POSTER PRESENTATION IGNITO	MYADAVARAM VISHAL	PARTICIPATION	MGIT	22 November 2024

20	PAPER/POSTER PRESENTATION IGNITO	DUBBA VIVEK	PARTICIPATION	MGIT	22 November,2024
21	PAPER/POSTER PRESENTATION IGNITO	NEREDUMALLI SANDEEP	PARTICIPATION	MGIT	22 November,2024
22	PAPER/POSTER PRESENTATION IGNITO	VANKUDOTH GOPI	PARTICIPATION	MGIT	22 November,2024
23	CAD COMPITITION/IGNITO	SAREDDY BHANUSREE	PARTICIPATION	MGIT	22 November,2024
24	CAD COMPITITION/IGNITO	SHAIK MOHAMMED HANEEF	PARTICIPATION	MGIT	22 November,2024
25	CAD COMPITITION/IGNITO	SUNKARI PRASHANTH	PARTICIPATION	MGIT	22 November,2024
26	CAD COMPITITION/IGNITO	V NAVYA SRI	PARTICIPATION	MGIT	22 November,2024
27	CAD COMPITITION/IGNITO	VANGARA VENKATESH	PARTICIPATION	MGIT	22 November,2024
28	CAD COMPITITION/IGNITO	VEMULAPALLY SAGAR	PARTICIPATION	MGIT	22 November,2024
29	CAD COMPITITION/IGNITO	VIJAY SIMHA REDDY	PARTICIPATION	MGIT	22 November,2024
30	AUTO QUIZ/IGNITO	VUDDAGIRI NAVEEN	PARTICIPATION	MGIT	22 November,2024
31	AUTO QUIZ/IGNITO	Y GNANENDRA REDDY	PARTICIPATION	MGIT	22 November,2024
32	AUTO QUIZ/IGNITO	MADASI NIVAS	PARTICIPATION	MGIT	22 November,2024
33	AUTO QUIZ/IGNITO	SUNKARI PRASHANTH	PARTICIPATION	MGIT	22 November,2024
34	AUTO QUIZ/IGNITO	VANGARA VENKATESH	PARTICIPATION	MGIT	22 November,2024
35	AUTO QUIZ/IGNITO	KANSOTH SRICHAND	PARTICIPATION	MGIT	22 November,2024
36	AUTO QUIZ/IGNITO	TELUGU RAVI KUMAR	PARTICIPATION	MGIT	22 November,2024
37	Employability Skills – Job Ready	ALLA KUNDANRAJESH	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024
38	Employability Skills – JobReady	BAVOTHU LAXMAN	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	28 October, 2024
39	Employability Skills – JobReady	KANSOTH SRICHAND	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024
40	Employability Skills – JobReady	LAVUDYA SAIKIRAN	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024

41	Employability Skills – JobReady	SANJAY MADISHETTY	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	30 October, 2024
42	Employability Skills – JobReady	SRAVAN KUMAR	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	30 October, 2024
43	Employability Skills – JobReady	MYADAVARAM VISHAL	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024
44	Employability Skills – JobReady	PANDAGA ABHILASH	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	30 October, 2024
45	Employability Skills – JobReady	SALLA RAHUL	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	28 October, 2024
46	Employability Skills – JobReady	UDAY KIRAN	COURSE COMPLETION	30 October, 2024	30 October, 2024
47	Employability Skills – JobReady	RAVI KUMAR	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024
48	Employability Skills – JobReady	AKSHAY REDDY	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024
49	Employability Skills – JobReady	MONESH PALEPAWAR	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024
50	Employability Skills – JobReady	CHALLA TIRUMALA	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024
51	Employability Skills – JobReady	SANDEEP GUDIPUDI	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	30 October, 2024
52	Employability Skills – JobReady	AASHRITH DEEP	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	28 October, 2024
53	Employability Skills – JobReady	SANDEEP REDDY	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	30 October, 2024
54	Employability Skills – JobReady	KURAGAYALA NIKHITH	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024
55	Employability Skills – JobReady	SAI ABHINAY PASUNUTI	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024
56	Employability Skills – JobReady	POTHANSHETTY SAI SRINIVAS	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	30 October, 2024
57	Employability Skills – JobReady	SAMEER SAMEER	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	30 October, 2024
58	Employability Skills – JobReady	SHIMMULA NARENDAR	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	30 October, 2024
59	Employability Skills – JobReady	SIDDANI JAYACHANDRA	COURSE COMPLETION	WADWANI FOUNDATION/ TBI-MRCET	29 October, 2024

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY					
MECHANICAL ENGINEERING					
Student Achievements-2023-2024					
S.NO.	Name of the Activity/workshop	Name of the Student	Award received	Event Venue	Date of event
1	SMART INDIA HACKTHON-2023	Anagandula Omkar	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
2	SMART INDIA HACKTHON-2023	Ankadi MeghaRaju	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
3	SMART INDIA HACKTHON-2023	Avunuri Yashwanth	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
4	SMART INDIA HACKTHON-2023	Jadav Nithya Anand	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
5	SMART INDIA HACKTHON-2023	Koduri sai Rakshitha	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
6	SMART INDIA HACKTHON-2023	Nagalla Sai Vamshi	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
7	SMART INDIA HACKTHON-2023	S. Rahul	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
8	SMART INDIA HACKTHON-2023	Sharma UdayKiran	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
9	SMART INDIA HACKTHON-2023	Rohan Pawar	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
10	SMART INDIA HACKTHON-2023	Banothu Laxman	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023

	HACKTHON-2023			INDIA/MRCET	
11	SMART INDIA HACKTHON-2023	Thumula Parthav	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
12	SMART INDIA HACKTHON-2023	N. Rehamathulla	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
13	SMART INDIA HACKTHON-2023	D. Manasa	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
14	SMART INDIA HACKTHON-2023	K. Karthik	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
15	SMART INDIA HACKTHON-2023	K. Rohit Kumar	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
16	SMART INDIA HACKTHON-2023	Ch. Mahesh	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
17	SMART INDIA HACKTHON-2023	B. Vinay Kumar	PARTICIPATION	GOVT. OF INDIA/MRCET	20 september, 2023
18	design war AKSHARA 2k24	ALLAM NITHIN REDDY	PARTICIPATION	MREC	20-21 March, 2024
19	design war AKSHARA 2k24	THOKALA NARESH	PARTICIPATION	MREC	20-21 March, 2024
20	design war AKSHARA 2k24	ATHRAM RAMAKRISHNA	PARTICIPATION	MREC	20-21 March, 2024
21	design war AKSHARA 2k24	BOLLAPELLI VIVEK	PARTICIPATION	MREC	20-21 March, 2024
22	design war AKSHARA 2k24	GHANAMUKHI HEMANTH	PARTICIPATION	MREC	20-21 March, 2024
23	design war AKSHARA 2k24	JERIPETTI VAMSHI	PARTICIPATION	MREC	20-21 March, 2024
24	design war AKSHARA 2k24	LAYAKAR RUGVEDH BOLLA	PARTICIPATION	MREC	20-21 March, 2024
25	reckon the ore AKSHARA 2k24	MARRI MANOJ KUMAR REDDY	PARTICIPATION	MREC	20-21 March, 2024
26	reckon the ore AKSHARA 2k24	PRAJAPATI ALOK KUMAR	PARTICIPATION	MREC	20-21 March, 2024
27	reckon the ore AKSHARA 2k24	BOGA SANTHOSH	PARTICIPATION	MREC	20-21 March, 2024
28	reckon the ore AKSHARA 2k24	THOTLA ARUNA	PARTICIPATION	MREC	20-21 March, 2024
29	reckon the ore AKSHARA 2k24	MARUKONDA SHIVASAI	PARTICIPATION	MREC	20-21 March, 2024
30	reckon the ore AKSHARA 2k24	POOJAM DEEPAK	PARTICIPATION	MREC	20-21 March, 2024

31	mine detabe AKSHARA 2k24	JERIPETTI VAMSHI	PARTICIPATION	MREC	20-21 March, 2024
32	mine detabe AKSHARA 2k24	LAYAKAR RUGVEDH BOLLA	PARTICIPATION	MREC	20-21 March, 2024
33	mine detabe AKSHARA 2k24	MARUTHI VAMSHI KRISHNA	PARTICIPATION	MREC	20-21 March, 2024
34	vishesh 2k23 robo rally	MOHAMMED IMRAN	PARTICIPATION	MREC	12-13 October, 2023
35	vishesh 2k23 robo rally	PEDDAGOLLA SRISHYLA	PARTICIPATION	MREC	12-13 October, 2023
36	vishesh 2k23 robo rally	NARADALA RAKESH	PARTICIPATION	MREC	12-13 October, 2023
37	vishesh 2k23 robo rally	NEELAM KARTHIK	PARTICIPATION	MREC	12-13 October, 2023
38	vishesh 2k23 robo war	PATHLAVATH VITTAL	PARTICIPATION	MREC	12-13 October, 2023
39	vishesh 2k23 robo war	THOTLA ARUNA	PARTICIPATION	MREC	12-13 October, 2023
40	vishesh 2k23 robo war	PRAJAPATI ALOK KUMAR	PARTICIPATION	MREC	12-13 October, 2023
41	vishesh 2k23 robo war	SAI AKHIL MAROJU	PARTICIPATION	MREC	12-13 October, 2023
42	LIFT OFF DRONE- WORKSHOP	BADE AKHIL	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
43	LIFT OFF DRONE- WORKSHOP	AMGOATH AKSHAY KUMAR	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
44	LIFT OFF DRONE- WORKSHOP	ANAGANDULA OMKAR	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
45	LIFT OFF DRONE- WORKSHOP	ANKADI MEGHARAJU	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
46	LIFT OFF DRONE- WORKSHOP	AVUNURI YASHWANTH	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
47	LIFT OFF DRONE- WORKSHOP	BHUKYA SWAMY	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
48	LIFT OFF DRONE- WORKSHOP	BHUMAI AHGARI SAMPATH REDDY	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024

49	LIFT OFF DRONE- WORKSHOP	BOYINI VINAY KUMAR	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
50	LIFT OFF DRONE- WORKSHOP	CHAPALA AVINASH	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
51	LIFT OFF DRONE- WORKSHOP	CHINTALACHERVU MAHESWARA REDDY	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
52	LIFT OFF DRONE- WORKSHOP	DADE NARESH	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
53	LIFT OFF DRONE- WORKSHOP	DUBBAKA MANASA	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
54	LIFT OFF DRONE- WORKSHOP	ELIGETI SINDHU	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
55	LIFT OFF DRONE- WORKSHOP	GUNDA LAVANSAI	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
56	LIFT OFF DRONE- WORKSHOP	J SIMHA CHARAN	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
57	LIFT OFF DRONE- WORKSHOP	JADAV NITHYANAND	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
58	LIFT OFF DRONE- WORKSHOP	JATANGI ASHOK	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
59	LIFT OFF DRONE- WORKSHOP	KAMALAM KARTHIK	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
60	LIFT OFF DRONE- WORKSHOP	KODURI SAI RAKSHITHA	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
61	LIFT OFF DRONE- WORKSHOP	KOLA ROHITH KUMAR	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024
62	LIFT OFF DRONE- WORKSHOP	MUDA PRATHYUSHA	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI- MRCET	26-28 March, 2024

63	LIFT OFF DRONE-WORKSHOP	GOPAGANI THARUN KUMAR	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI-MRCET	26-28 March, 2024
64	LIFT OFF DRONE-WORKSHOP	NAGALLA SAI VAMSHI	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI-MRCET	26-28 March, 2024
65	LIFT OFF DRONE-WORKSHOP	NAGUR REHAMATHULLA	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI-MRCET	26-28 March, 2024
66	LIFT OFF DRONE-WORKSHOP	PABBATHI PRASAD	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI-MRCET	26-28 March, 2024
67	LIFT OFF DRONE-WORKSHOP	PAGIDIPALLY VINAY	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI-MRCET	26-28 March, 2024
68	LIFT OFF DRONE-WORKSHOP	SURI VENKAT SAI	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI-MRCET	26-28 March, 2024
69	LIFT OFF DRONE-WORKSHOP	VALLAPUDAS SHASHIDHAR	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI-MRCET	26-28 March, 2024
70	LIFT OFF DRONE-WORKSHOP	SHAIK DULSHAN	COURSE COMPLETION	SPACE CHASE PVT LTD. TBI-MRCET	26-28 March, 2024
71	INTERPERSONAL SKILLS	NAGALLA SAI VAMSHI	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
72	INTERPERSONAL SKILLS	NAGUR REHAMATHULLA	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
73	INTERPERSONAL SKILLS	PABBATHI PRASAD	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
74	INTERPERSONAL SKILLS	PAGIDIPALLY VINAY	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
75	INTERPERSONAL SKILLS	SURI VENKAT SAI	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
76	INTERPERSONAL SKILLS	VALLAPUDAS SHASHIDHAR	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024

77	INTERPERSONAL SKILLS	SHAIK DULSHAN	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
78	INTERPERSONAL SKILLS	Choudari Rakesh	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
79	INTERPERSONAL SKILLS	DAIDAJEEVAN	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
80	INTERPERSONAL SKILLS	Kalluri Tarun Teja	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
81	INTERPERSONAL SKILLS	AllamNithin Reddy	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
82	INTERPERSONAL SKILLS	ATHRAMRAMA KRISHNA	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
83	INTERPERSONAL SKILLS	AtthiSai kiran	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
84	INTERPERSONAL SKILLS	BHUKYA NAVEEN	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
85	INTERPERSONAL SKILLS	BONEPALLY SAHITH REDDY	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
86	INTERPERSONAL SKILLS	Devireddy Sujith Reddy	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
87	INTERPERSONAL SKILLS	DHARAVATHABHI DAS	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
88	INTERPERSONAL SKILLS	GhanamukhiHemanth	COURSE COMPLETION	WADWANI FOUNDATION, TBI-MRCET	01 March, 2024
89	PAPER PRESENTATION/YANT ROTSAV 2K24	S RAHUL	FIRST	MRCET	2-3 February 2024
90	POSTER PRESENTATION/YANT ROTSAV 2K24	S K ANSAR	FIRST	MRCET	2-3 February 2024
91	POSTER PRESENTATION/YANT ROTSAV 2K24	DUBBA VIVEK	SECOND	MRCET	2-3 February 2024

92	AUTO QUIZ/YANTROTSAV 2K24	BANOTHU LAXMAN	FIRST	MRCET	2-3 February 2024
93	AUTO QUIZ/YANTROTSAV 2K24	KANSOTH SRICHAND	SECOND	MRCET	2-3 February 2024
94	PAPER PRESENTATION/YANT ROTSAV 2K24	THADURI ACHUTH REDDY	PARTICIPATION	MRCET	2-3 February 2024
95	PAPER PRESENTATION/YANT ROTSAV 2K24	THAMMALLA VENKATESH	PARTICIPATION	MRCET	2-3 February 2024
96	POSTER PRESENTATION/YANT ROTSAV 2K24	V NAVYA SRI	PARTICIPATION	MRCET	2-3 February 2024
97	POSTER PRESENTATION/YANT ROTSAV 2K24	VIJAY SIMHA REDDY	PARTICIPATION	MRCET	2-3 February 2024

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY					
MECHANICAL ENGINEERING					
Student Achievements-2022-2023					
S.NO.	Name of the Activity/workshop	Name of the Student	Award received	Event Venue	Date of event
1	mega mind AKSHARA 2k23	AQIB AHMED KHAN	PARTICIPATION	MREC	10-11 March, 2023
2	mega mind AKSHARA 2k23	BANDARU SRINIVAS	PARTICIPATION	MREC	10-11 March, 2023
3	mega mind AKSHARA 2k23	B HARI KRISHNA	PARTICIPATION	MREC	10-11 March, 2023
4	mega mind AKSHARA 2k23	BHUKYA PRASHANTH	PARTICIPATION	MREC	10-11 March, 2023
5	mega mind AKSHARA 2k23	M.ANUSHA	PARTICIPATION	MREC	10-11 March, 2023
6	mega mind AKSHARA 2k23	BOLLE VIKAS	PARTICIPATION	MREC	10-11 March, 2023
7	design war AKSHARA 2k23	M.ANUSHA	PARTICIPATION	MREC	10-11 March, 2023
8	design war AKSHARA 2k23	EDUBILLI MOHAN SAI	PARTICIPATION	MREC	10-11 March, 2023
9	design war AKSHARA 2k23	BHUKYA PRASHANTH	PARTICIPATION	MREC	10-11 March, 2023
10	design war AKSHARA 2k23	THOTLA ARUNA	PARTICIPATION	MREC	10-11 March, 2023
11	design war AKSHARA 2k23	DUVVA DEVANG	PARTICIPATION	MREC	10-11 March, 2023
12	design war AKSHARA 2k23	B HARI KRISHNA	PARTICIPATION	MREC	10-11 March, 2023
13	build and destroy AKSHARA 2k23	NEELAM KARTHIK	PARTICIPATION	MREC	10-11 March, 2023
14	build and destroy AKSHARA 2k23	BUNGA PAVAN KUMAR	PARTICIPATION	MREC	10-11 March, 2023
15	build and destroy AKSHARA 2k23	CHINTALA SAI TEJA	PARTICIPATION	MREC	10-11 March, 2023
16	build and destroy AKSHARA 2k23	DHUMAL PRASAD	PARTICIPATION	MREC	10-11 March, 2023
17	ideathon -Promethean Technical Fest	BHUKYA PRASHANTH	PARTICIPATION	BVRIT	22-23 December, 2022

18	Ideathon -Promethean Technical Fest	M.ANUSHA	PARTICIPATION	BVRIT	22-23 December, 2022
19	Ideathon -Promethean Technical Fest	B HARI KRISHNA	PARTICIPATION	BVRIT	22-23 December, 2022
20	PAPER PRESENTATION/YANTR OTSAV 2K23	JERIPETTI VAMSHI	FIRST	MRCET	27-28 January, 2023
21	PAPER PRESENTATION/YANTR OTSAV 2K23	MARUTHI VAMSHI KRISHNA	SECOND	MRCET	27-28 January, 2023
22	POSTER PRESENTATION/YANTR OTSAV 2K23	SEELAM NARENDAR	FIRST	MRCET	27-28 January, 2023
23	AUTO QUIZ/YANTROTSAV 2K23	ALLAM NITHIN REDDY	FIRST	MRCET	27-28 January, 2023
24	PAPER PRESENTATION/YANTR OTSAV 2K23	MOHAMMAD IBRAHIM	PARTICIPATION	MRCET	27-28 January, 2023
25	PAPER PRESENTATION/YANTR OTSAV 2K23	DARSI VINAY	PARTICIPATION	MRCET	27-28 January, 2023
26	PAPER PRESENTATION/YANTR OTSAV 2K23	DHARAVATH TARUN	PARTICIPATION	MRCET	27-28 January, 2023
27	POSTER PRESENTATION/YANTR OTSAV 2K23	DHUMAL PRASAD	PARTICIPATION	MRCET	27-28 January, 2023
28	POSTER PRESENTATION/YANTR OTSAV 2K23	DUVVA DEVANG	PARTICIPATION	MRCET	27-28 January, 2023
29	AUTO QUIZ/YANTROTSAV 2K23	GALLA PAVAN KUMAR	PARTICIPATION	MRCET	27-28 January, 2023
30	AUTO QUIZ/YANTROTSAV 2K23	GATTU MANOJ KUMAR	PARTICIPATION	MRCET	27-28 January, 2023
31	AUTO QUIZ/YANTROTSAV 2K23	GOPU PRUTHVI TEJA	PARTICIPATION	MRCET	27-28 January, 2023

EXTRA CURRICULAR ACTIVITIES

Apart from academic achievements we take pride in our students achievements in sports activities. Our students have been the Winner Zonal & Central Zone in Foot Ball matches. Our students have also won the Runner of in Zonal Volley Ball Matches. We are also proud that MRCET students are selected in the JNTU University Sports teams. The following are the students who are selected for different games:

SPORTS ACHIEVEMENTS, 2024-25, 2023-24, 2022-23

S.No.	Name the Student	Event	Venue	Award	YEAR
1	D MANASA	SOFT BALL (W)	RUNNER	MRCEW	2024-2025
2	MOHAMMED IMRAN	KABADDI (M)	WINNERS	SPORTS BLITZ -2K24	2024-2025
3	URMALA AKSHAY REDDY	KABADDI (M)	WINNERS	SPORTS BLITZ -2K24	2024-2025
4	NEREDUMALLI SANDEEP	KABADDI (M)	WINNERS	SPORTS BLITZ -2K24	2024-2025
5	S RAHUL	KABADDI (M)	WINNERS	SPORTS BLITZ -2K24	2024-2025
6	SHARMA UDAY KIRAN	KABADDI (M)	WINNERS	SPORTS BLITZ -2K24	2024-2025
7	GURRAM ANVESH	KABADDI (M)	WINNERS	SPORTS BLITZ -2K24	2024-2025
8	T. NARESH	SOFTBALL	PARTICIPATION	PUNJNAB UNIVERSITY	2023-2024
9	GUDIVENUKA MANIDEEP	KABADDI MENS	RUNNER	HITAM HYDERABAD	2023-2024
10	K SUJETH	KABADDI MENS	RUNNER	HITAM HYDERABAD	2023-2024
11	NEELAM KARTHIK	KABADDI MENS	RUNNER	HITAM HYDERABAD	2023-2024
12	JERIPETTI VAMSHI	CRICKET MENS	RUNNER	MALLAREDDY UNIVERSITY	2023-2024

13	GUDIVENUKA MANIDEEP	KABADDI (M)	RUNNERS	SPORTS BLITZ -2K23	2023-2024
14	K SUJETH	KABADDI (M)	RUNNERS	SPORTS BLITZ -2K23	2023-2024
15	NEELAM KARTHIK	KABADDI (M)	RUNNERS	SPORTS BLITZ -2K23	2023-2024
16	SEELAM NARENDAR	KABADDI (M)	RUNNERS	SPORTS BLITZ -2K23	2023-2024
17	MOHAMMED IMRAN	KABADDI (M)	RUNNERS	SPORTS BLITZ -2K23	2023-2024
18	URMALA AKSHAY REDDY	KABADDI (M)	RUNNERS	SPORTS BLITZ -2K23	2023-2024
19	NEREDUMALLI SANDEEP	KABADDI (M)	RUNNERS	SPORTS BLITZ -2K23	2023-2024
20	SUNKARI PRASHANTH	CRICKET MENS	RUNNER	MALLAREDDY UNIVERSITY	2023-2024
21	VADTHYAVATH JAGAN	CRICKET MENS	RUNNER	MALLAREDDY UNIVERSITY	2023-2024
22	GUDIVENUKA MANIDEEP	KABADDI MENS	RUNNER	MALLAREDDY UNIVERSITY	2023-2024
23	K SUJETH	KABADDI MENS	RUNNER	MALLAREDDY UNIVERSITY	2023-2024
24	NEELAM KARTHIK	KABADDI MENS	RUNNER	MALLAREDDY UNIVERSITY	2023-2024
25	KALLURI TARUN TEJA	VOLLEY BALL (M)	RUNNER	ANURAG UNIVERSITY	2023-2024
26	SAI AKHIL MAROJU	VOLLEY BALL (M)	RUNNER	ANURAG UNIVERSITY	2023-2024

27	THOTLAARUNA	VOLLEY BALL (W)	3 RD PLACE	BVRIT	2023-2024
28	CHERUKURI SAHITHI	VOLLEY BALL(W)	3 RD PLACE	TECH MAHINDRA UNIVERSITY	2023-2024
29	THATIKANTI ADITHYA	BASKET BALL	WINNERS	KTR TROPHY	2023-2024
30	K. GOPICHAND	KABADDI	PARTICIPATION	BHARATHIDASAN	2022-2023
31	ROHAN S MUDAY	CARROMS	PARTICIPATION	MREC(A)	2022-2023
32	SHARMA SHASHI KIRAN	CRICKET MEN	PARTICIPATION	MREC(A)	2022-2023
33	SUNKARI AKSHAY	VOLLYBALL	PARTICIPATION	MREC(A)	2022-2023
34	V NAVYA SRI	VOLLEY BALL(W)	WINNERS	HITAM ENGINEERING COLLEGE	2022-2023



Non-Technical Clubs:

The college has 2 Student clubs
Literary Club

Music Club

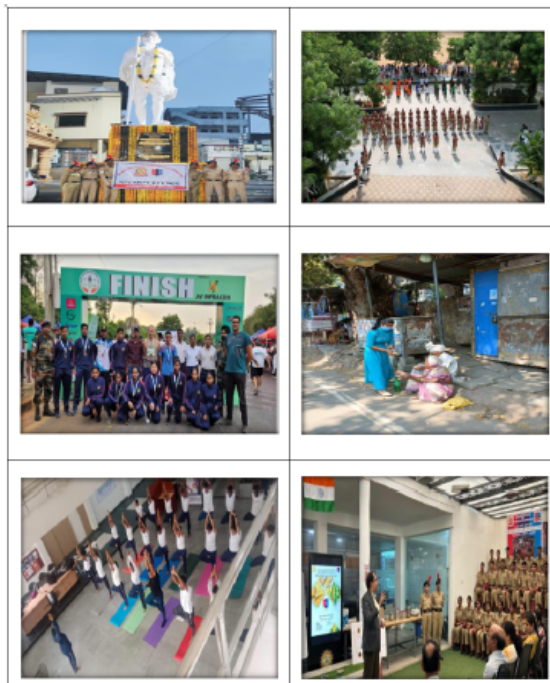
S. No	Academic year	Name of the Event	Date of event	Organized by
1	2024-2025	TALE HUNT	04-03-2025	LITERARY CLUB
2	2024-2025	MUSICAL MINGGLE	01-02-2025	MUSIC CLUB



Sample Glimpses of Student Club Activities

NSS and NCC Events

S.NO	Academic Year	Name of the Activity	Date
1	2024-2025	Clothes Distribution	3 rd APRIL, 2024
2	2024-2025	Independence Day	15 th AUGUST, 2024
3	2024-2025	Cleaning	22 nd SEPTEMBER, 2024
4	2024-2025	Gandhi Jayanthi	2 nd OCTOBER, 2024
5	2024-2025	NCC Day	24 th NOVEMBER, 2024
6	2023-2024	5K Run	4 th JUNE 2023
7	2023-2024	INTERNATIONAL YOGA DAY	21 st JUNE 2023
8	2023-2024	QUIT INDIA MOVEMENT	9 th AUGUST 2023
9	2022-2023	Firing Simulation	2 nd NOVEMBER 2022
10	2022-2023	NATIONAL UNITY DAY	31 st OCT 2022
11	2022-2023	International Day of Charity – Food Distribution by Cadets	5 th SEPTEMBER 2022
12	2022-2023	Friend Ship Day – Tree Plantation by Cadets	1 st AUGUST 2022
13	2022-2023	Republic Day	25 th JANUARY 2023
14	2022-2023	MILLETS DAY	18 th MARCH 2023



10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 120.00

10.1 Organization, Governance and Transparency (55)

Total Marks 55.00

10.1.1 State the Vision and Mission of the Institute (5)

Institute Marks : 5.00

VISION

To establish a pedestal for the integral innovation, team spirit, originality and competence in the students, expose them to face the global challenges and become pioneers of Indian vision of modern society.

MISSION

- To become a model institution in the fields of Engineering, Technology and Management.
- To impart holistic education to the students to render them as industry ready engineers.
- To ensure synchronization of MRCET ideologies with challenging demands of International Pioneering Organizations.

10.1.2 Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (25)

Institute Marks : 25.00

INSTITUTION STRATEGIC PLAN

Higher level Steering committee consisting of Principal, Deans and Senior Professors after in-depth discussions and by considering vision, mission, quality policy, core values, social factor and SWOC analysis established a strategic plan with well defined objectives and mechanism for its effective implementation and monitoring.

The institution constituted a steering committee for effective implementation and monitoring. The committee consists of the following

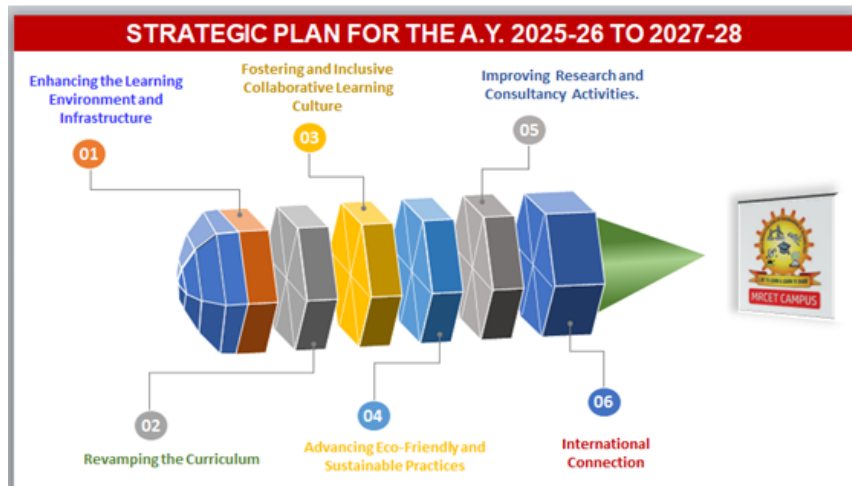
STEERING COMMITTEE

S.No.	Name	Designation
1	Sri Ch Mahender Reddy	Secretary, MRGI
2	Dr S Srinivasa Rao	Principal
3	Dr T Venugopal	Dean, Student Affairs
4	Dr PHV Sesha Talpa Sai	Dean, R&D
5	Dr K Kailasa Rao	Dean, Placements
6	Prof P Sanjeeva Reddy	Dean, International Studies
7	Dr D Sujatha	Dean, CSET
8	Dr K Mallikarjuna Lingam	HOD, ECE
9	Dr S Shanthi	HOD, CSE
10	Dr G Sharada	Professor, CSE
11	Dr M V Kamal	Professor, CSE
12	Dr M Sharanya	HOD, EEE
13	Dr P Srikar	HOD, MECH
14	Dr Mohammed Mohaideen	HOD, ANE
15	Dr G Naveen Kumar	HOD, MBA
16	Dr V Madhusudhana Reddy	HOD, H&S

FUNCTIONS OF THE STEERING COMMITTEE:

- The committee will acquire inputs from all the stake holders of the institution viz., management, faculty, students and parents on a regular basis for effective implementation of the objectives of the strategic plan.
- The committee will monitor the outcomes specified in the strategic plan in order to initiate remedial actions for those outcomes which are below the target level.
- The committee will meet at regular intervals to monitor the progress achieved in the objectives specified in the strategic plan.

STRATEGIC PLAN OBJECTIVES



1. Enhancing the Learning Environment and Infrastructure

To enhance a learning environment and infrastructure, the institution has come out with the following:

Creating a comfortable and safe space:

The students and staff are ensured with comfortable and feel safe by providing proper lighting, ventilation, temperature control, and comfortable seating in the class rooms, laboratories, tutorial rooms, auditoriums and at other central facilities.

The following facilities are available in the institution and the details are:



Providing adequate resources:

Providing classrooms spacious enough, have the right amount of tables and chairs, and are equipped with smart boards, projectors, and sound systems.



Investing in libraries:

Libraries have adequate titles of books with sufficient volumes, study materials, and reference materials, as well as well-sectioned study areas.

The following are the details of the Institution Central Library:

S.No	Particulars	Available
01	Total Volumes	62354
02	Total Titles	8750
03	Total Print Journals-National/Magazines	130
04	Inter National Journals	12
05	SC/ST Book Bank Books	1788
06	E-Journals (IEEE Xplore Digital Library) (ASPP), J-Gate Engineering & Management Collection.	34895 (E-Journals & Magazines Conference Publications, Standards)
07	E-Books	17556
08	Back Volumes	1124
09	Project Reports	1506
10	Library Space	1295 sq/m
11	Reading Capacity	300
12	Library Software	New Gen Lib(Verus Solutions Pvt.Ltd)
13	No.of CDs (Subjects and General)	372
14	News Papers	07
15	Number of Library Staff	08
16	Number of Library Staff with Degree in Library science	07
17	Working Hours	8.00 AM to 8.00 PM

SALIENT FEATURES – Central Library: International Journals



Equip laboratories:

Laboratories have the right tools and equipment for practical subjects, as well as emergency resources like fire extinguishers.

Providing sports facilities:

Extracurricular activities on campus can help with mental and physical growth. Institute is identified as Zone C by the affiliated university JNTUH Hyderabad to organize various Intra and Inter College events.

SALIENT FEATURES – GAMES, GYMNASIUM & SPORTS FACILITY

DEPARTMENT OF PHYSICAL EDUCATION STAFF DETAILS

S.No	Name	Designation	Experience
1	Mr Shyam	Physical Director	12 Years
2	Mr Mallikarjun	Physical Director	6 Years
3	Ms Obulamma	Physical Director	5 Years
4	Ms Sonia	Physical Director	3 Years
5	Mr Bhaskar	Physical Director	5 Years

INFRASTRUCTURE OF OUT DOOR GAMES

S NO	NAME OF PLAY GROUNDS	NO. OF GROUNDS
1	CRICKET	1
2	FOOT BALL	1
3	HAND BALL	1
4	BASKET BALL	2
5	VOLLEY BALL	4
6	THROW BALL	2
7	KABADDI	2
8	KHO KHO	1
9	BADMINTON	1

INFRASTRUCTURE OF INDOOR GAMES

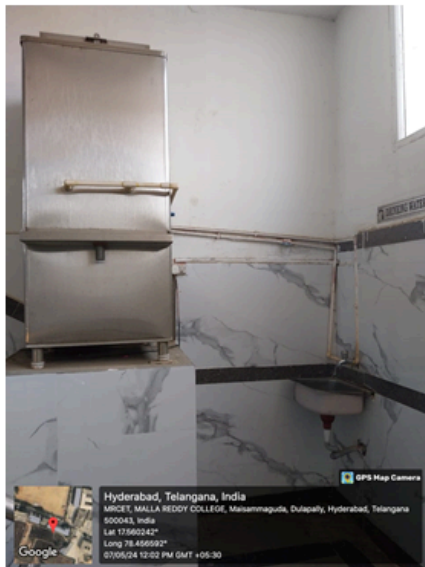
S NO	NAME OF EVENTS	NUMBER OF LIST
1	GYMANASIUM	1
2	TABLE TENNIS	4
3	CHESS	30
4	CARROMS	10





Prioritize sanitation and hygiene:

Institute implements WHO-recommended standards for sanitation and hygiene facilities. RO Filter System is installed in the institution through which filter water is provided to the students and staff.



Implementation of safety measures:

Institute follows fire safety precautions with required fire safety equipment and emergency exits. Fire Safety Certificate issued by Telangana Government is given below:



GOVERNMENT OF TELANGANA
STATE DISASTER RESPONSE & FIRE SERVICES DEPARTMENT



From
The District fire officer,
Kukatpally Division.

To,
C.M.R. Educational Society Block II,
Sy.No.518 & 519,
Gundlapochampally Village,
Medchal-Malkajgiri District Telangana state,

Ack. No. **487230002023** Dated: **25/01/2024**

Sir,

Sub: **TELANGANA STATE DISASTER RESPONSE & FIRE SERVICE DEPARTMENT –Kukatpally Division. Renewal of No Objection Certificate for Occupancy to the Non Multi storeyed Building of C.M.R. Educational Society Block II,Sy.No.518 & 519, Gundlapochampally Village, Medchal-Malkajgiri District/- Gundlapochampally/Medchal/Medchal. – Regarding.**

Ref: 1. Acknowledgement No. **487230002023**
 2. This Office NOC for Occupancy Ack/RC No. **666/B1/2016** dt. **25/01/2024**
 3. Non Multi storeyed Building Inspection Committee Report, Ack. No. **487230002023**, dt. **25/01/2024**

1) The Non Multi storeyed Building Inspection committee, vide reference cited (3) has inspected the Non Multi storeyed Building of **C.M.R. Educational Society Block II,Sy.No.518 & 519, Gundlapochampally Village, Medchal-Malkajgiri District/-Gundlapochampally/Medchal/Medchal**

2) The above said building was issued was issued No Objection certificate vide reference cited (2) for Non Multi storeyed Building with **1 Ground, 3 Floors**, with a height of **14.90** Meters for **EDUCATIONAL B-2 All others/training institutions** Occupancy.

3) Now the Builder/Authorized person has requested to issue Renewal of No Objection Certificate for Occupancy to the Non Multi storeyed Building with **1 Ground, 3 Floors**, with a height of **14.90** Meters for **EDUCATIONAL B-2 All others/training institutions** Occupancy

4) Open Spaces: The builder provided the following open spaces all around the building.

Sl.No	Side	Open spaces as per Noc occupancy	Open spaces provided now
a 1	North	5.00	5.00
2	South	5.00	5.00
3	East	5.00	5.00
4	West	5.00	5.00

Sl. No	Gate Width As per Occupancy NOC	as per Noc occupancy	provided now
1	Entry gate width	6.00	06.00
2	Entry Gate Head Clearance	5.00	05.00
3	Exit Gate Width	6.00	06.00
4	Exit Gate Head Clearance	5.00	5.00

5) Travel Distance

Sl. No.	Item / Description	as per Noc occupancy	provided now
1	Farthest point (Most Remote Point) With in a storey or a mezzanine floor to the door to an Exit.	24.00	24.00
2	The Dead end of the corridor length in exit access. (6 mtrs for Educational, Institutional and Assembly, 15mtrs for other Occupancies)	0.00	0.00

6) Stair Cases (As per Occupancy NOC) :



Incorporating emerging technologies:

Using emerging technologies in the campus to create an interactive and modern learning environment both by faculty and students.

Train teachers:

Focus on teacher training to maximize the benefits of available resources.

Infrastructure Development:

To establish technology incubators in all disciplines in active collaboration with IT industry and R & D organizations.

Creation of centers of excellence in all the departments with latest simulation tools and automation systems.

To establish full-fledged residential campus providing state of the art facilities for both the students and faculty.

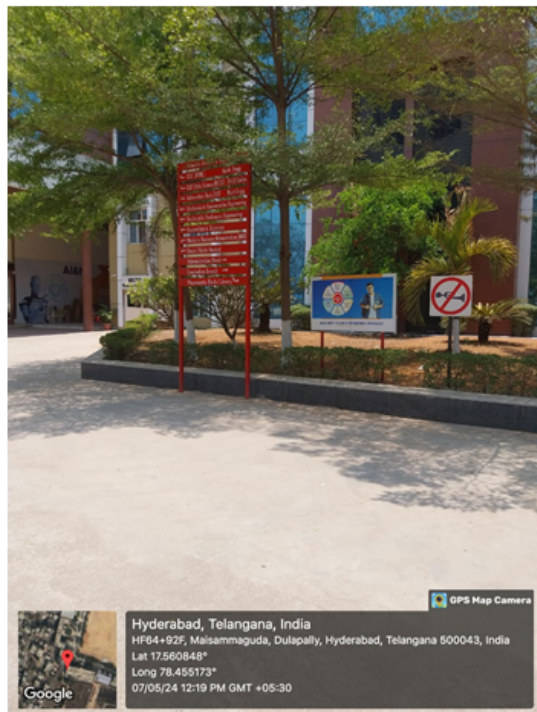
Separate academic blocks for each department and administration

Regular conduction of cultural programs involving ethnic communities - celebration of major national festivals

Motivating students to become members of college clubs and professional societies and to actively participate (2 credit-mandatory).

Improve and augment hostel, sports and recreation facility.

Improve the campus ambience through proper illumination, beautification and maintaining greenery.





2. Revamping the Curriculum

Revamping the curriculum is done for every two years which involves modifying, revising, or updating the content, structure, and delivery.

Some steps that are considered while revamping the curriculum include:

Identifying the need

Defining goals

Designing a plan

Developing content

Delivering instruction

Evaluating the impact

Some strategies for changing a curriculum include:

Power coercive: Involves those in authority mandating changes

Rational empirical: Uses workshops and demonstrations to help teachers see the value of changes

Some ways to make a curriculum more effective include:

Aligning it with the institutes core values

Stating learning objectives

Planning how to present the program

Using high-quality tools

Analyzing and refreshing the approach regularly

Creating an environment that encourages collaboration between classmates

Integrating student voices and knowledge into the learning process

Curriculum modification can help create more accessible learning environments for all students and teachers.

3. Fostering a collaborative and inclusive learning culture

This involves creating a supportive environment where students feel valued and included.

Here are some tips for fostering a collaborative learning culture:

Creating a sense of community:

An encouraging academic environment that is existing will make the students build strong relationships and a sense of belonging when they work together towards common goals.

Promoting diversity and inclusion:

A space is created where every voice is valued and respected. Institute is offering diversity training, establishing anti-discrimination policies, and creating channels for open dialogue both for faculty and students.

MRCET Student Clubs are available where the students have the opportunity to participate in various activities.



Encouraging active participation:

Collaborative learning is a training methodology that emphasizes active participation, knowledge sharing, and peer learning. Various training programs, workshops and seminars are organized in the institute for all the departments at various levels which Collaborative Learning is implemented.

Establishing ground rules:

Clear expectations for participation and contributions for co-curricular and extra-curricular activities are well defined.

Planning for group work:

Awareness regarding how groups will operate, how students will be graded, and plan for each stage of group work is informed to students and articulated to all stake holders of the institute.

Fostering a culture of feedback:

Encouraging a culture of feedback and open communication from students and all stake holders at regular intervals of time for the progress of the institution is taken at the end of the semester/academic year whichever is applicable.

Celebrating wins:

Recognizing and celebrating collaboration and wins of the students and faculty who brought laurels to the institution in various events.

Teaching- Learning Process:-

Institution is according high priority to the teaching-learning process adopted in the college

- Regular conduction of workshops on effective teaching methodologies
- Application and outcome based teaching
- Use of latest assessment and learning tools in all disciplines
- Curriculum upgradation to match with the industry
- Multidisciplinary courses in the curriculum
- Smart classrooms
- E- Learning Tools
- Continue implementation of course redesign initiatives and evaluate them for impact and "best practices."
- Infuse more research and creative activities in courses to improve learning experiences of undergraduate students.
- Increase funding to support current and future transformational initiatives and encourage more faculty participation.
- Starting of online courses offered at the institution.
- Enabling students and faculty to learn German, French and Japanese language. Further, elevating it as mandatory credit course for UG students.

**4. Advancing Eco-Friendly and Sustainable Practices****Conservation of water**

Conserving water can help save money on utilities and reduce the environmental impact.

Usage of energy-efficient lighting

Switching to LED lighting and adjusting lighting settings can reduce power costs.

Awareness camps about usage of recycled materials

Awareness camps are organized to the students to stress upon the importance of using recycled materials in products to minimize carbon footprint.

Awareness about reducing food waste

Awareness about reducing food waste is organized to students which can help advance sustainable practices.

Avoid single-use plastics

Avoiding single-use plastics can help advance sustainable practices. Awareness is brought among students by NSS Unit of the Institution.

Support environmental causes

Supporting environmental causes, sustainable businesses, and voting can help advance sustainable practices.

5. Improving Research and Consultancy Activities**Promoting research**

Encouraging students and teachers to do research, and help them understand the resources available for research on campus.

Establish a framework

Providing a framework for students and faculty to get support for their research. Research Incentives will be given as per the guidelines prescribed by the institution.

Raising awareness

Educating students and faculty about research ethics and academic integrity.

Collaborating with clients

Working with clients from different industries to gain new skills, develop connections, and improve business expertise.

Other measurements taken for R&D Activities

- MoUs with higher learning institutions in India & abroad.
- Collaborations with IISC, IITs, TIFR, ISRO, DRDO, NAL, HAL, BEL...etc
- Multi & inter disciplinary research and product development
- Encourage “idea to product” pre-incubation activities
- Establishing incubation centres
- Focus on Product development
- Startup of maker Space (Fab Lab) – Product and development



6. International Connection

Institution will invite Professors from reputed Universities for exploring the education system at abroad.

Collaborating with various Universities in India and abroad for creating opportunities for internships and higher education in various specializations.

International Conferences are organized every year in the month of June in association with Springer to provide the platform for teaching faculty, research scholars and industrialists to share their research ideas in various domains.

The glimpses of International Conferences organized are shown below:

INTERNATIONAL UNIVERSITY COLLABORATIONS FOR PROMOTING HIGHER EDUCATION



- National University California, USA
- University of New Orleans, Louisiana, USA.
- International Technological University, Silicon Valley, USA.
- University Malaysia Sarawak (UNIMAS), Malaysia.
- ECPI University, USA.
- Lincoln University College, Malaysia.
- University of Highlands and Islands, Scotland, UK
- University of Central Missouri, USA.
- Tandon School Engineering, New York University.
- George Washington University, USA.
- Western New England University, USA
- University of Arizona, USA.
- University of Alabama Huntsville, USA.
- Murdoch University, Australia.



International Conferences scheduled on June 24-25, 2022 by Engineering and Management




ICSCSP 2K22





International Conferences scheduled on June 23-24, 2023







International Conferences scheduled on June 21-22, 2024







The details of forthcoming International Conferences ICSCSP 2K25 and ICIMES 2K25 in association with Springer are scheduled on June 20-21, 2025. The details are given below:

[illegible]

Institute Marks : 10.00

GOVERNING BODY:

The constitution and functioning of Governing Body, which is supreme, are detailed hereunder:

The Governing Body shall have at least eleven members including the Chairman and the Member-Secretary. The Registered Society / Trust shall nominate six members including the Chairman and the Member-Secretary, and the remaining five members shall be nominated as indicated below

COMPOSITION GOVERNING BODY MEMBERS

S. No	Name of the Member	Particulars	Responsibilities
Members from the Management			
1	<u>Dr D Raghu Rami Reddy</u>	Professor (Retd.) SV University, Tirupathi	Chairman
2	<u>Sri.Ch. Mahender Reddy</u>	Secretary, CMR Educational Society	Member
One Member nominated by JNTUH, Hyderabad – University Nominee			
3	<u>Dr G Vijaya Kumari</u>	Professor of CSE, JNTUH CEH, Hyderabad	Member
One Member nominated by UGC, Govt of India, New Delhi – UGC Nominee			
4	<u>Prof R N Yadav</u>	Professor of ECE, Maulana Azad NIT, Bhopal	Member
One Member from State Government Nominee, Telangana State – State Government Nominee			
5	<u>Smt P Annapurna</u>	Principal, Govt. Institute of Electronics, Hyd	Member
Two Teachers of the College nominated by the Principal based on seniority			
6	<u>Prof P Sanjeeva Reddy</u>	Dean, International Studies	Member
7	<u>Dr T Venu Gopal</u>	Dean, Student Affairs	Member
Educationist or Industrialist nominated by the Management			
8	<u>Dr VSK Reddy</u>	Vice Chancellor, Malla Reddy University	Member
9	<u>Dr P Rami Reddy</u>	Former Registrar, JNTUH, Hyderabad	Member
10	<u>Dr Suresh Chandra Satapathy</u>	National Chairman, CSI (2015-17) Mumbai	Member
11	<u>Sri M Shashikanth</u>	Director, Volksoft Technologies Pvt. Ltd., Hyd	Member
12	<u>Dr D Pramod</u>	Professor (Retd.), University of Delhi, New Delhi	Member
Principal of the College			
13	<u>Dr S Srinivasa Rao</u>	Principal, MRCET	Member Secretary

Appointment of Chairman of the Governing Body:

The Chairman of the Governing Body shall preferably be a technical person either an entrepreneur or an industrialist or an educationalist of repute who is interested in the development of technical education, and has demonstrated an interest in promotion of quality education in particular.

Meeting:

The Governing Body/ Board of Management shall meet twice a year.

In the absence of the Chairman, the members can elect a Chairman from amongst the members present for that meeting.

Functions:

1. To ratify the decisions of the academic council.
2. Approval of new courses recommended by the academic council
3. To appoint Principal/Director, the teaching and non teaching staff on the recommendations of the selection committees constituted under the relevant regulations of the universities.
4. Scrutinizing and approving the budgetary proposals.
5. Suggesting and approving the student development programs
6. Promoting industry institute partnership cell for student training and placement activities.
7. To monitor and evaluate the teaching programs in the college and suggest remedial measures.
8. To constitute committees, sub committees & standing committees for specific purpose delegating appropriate powers.
9. To perform such other duties and exercise such other powers as may be entrusted by the management.
10. Fix the fees and other charges payable by the students of the college on the recommendations of the Finance Committee.
11. Institute scholarships, fellowships, studentships, medals, prizes and certificates on the recommendations of the Academic Council
12. Approve institution of new programmes of study leading to degrees and/or diplomas.
13. Perform such other functions and institute committees, as may be necessary and deemed fit for the proper development, and fulfill the objectives for which the college has been declared as autonomous.

In addition to being the supreme administrative authority of the College, the Governing Body shall have the following additional functions with respect to autonomy.



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07.12.2024

MEMBERS OF 22nd GOVERNING BODY MEETING - A.Y. 2024-25

S.No	Name of the Member	Particulars	Responsibilities	Signature
Members from the Management				
1	Dr D Raghu Rami Reddy	Professor (Retd.) SV University, Tirupathi	Chairman	
2	Sri.Ch. Mahender Reddy	Secretary, CMR Educational Society	Member	
One Member nominated by JNTUH, Hyderabad – University Nominee				
3	Dr G Vijaya Kumari	Professor of CSE, JNTUH CEH, Hyderabad	Member	
One Member nominated by UGC, Govt of India, New Delhi – UGC Nominee				
4	Prof R N Yadav	Professor of ECE, Maulana Azad NIT, Bhopal	Member	
One Member from State Government Nominee, Telangana State – State Government Nominee				
5	Smt. P Annapurna	Principal, Govt. Institute of Electronics, Hyderabad	Member	
Two Teachers of the College nominated by the Principal based on seniority				
6	Prof P Sanjeeva Reddy	Dean, International Studies	Member	
7	Dr T Venu Gopal	Dean, Student Affairs	Member	
Educationist or Industrialist nominated by the Management				
8	Dr VSK Reddy	Vice Chancellor, Malla Reddy University	Member	
9	Dr P Rami Reddy	Former Registrar, JNTUH, Hyderabad	Member	
10	Dr Suresh Chandra Satapathy	National Chairman, CSI, Mumbai	Member	
11	Sri M Shashikanth	Director, Volksoft Technologies, Hyderabad	Member	
12	Dr D Pramod	Professor (Retd.), University of Delhi, New Delhi	Member	
Principal of the College				
13	Dr S Srinivasa Rao	Principal, MRCET	Member Secretary	

MRCET

Maisammaguda, Dhulapally, Secunderabad -500100, Telangana State, India. website: www.mrcet.ac.in
Contact: 9133555162 / 7207034237 / 9133555183, E-Mail Id: mrcet2004@gmail.com; EAMCET/ICET/PGET Code : MLRD



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22nd GOVERNING BODY MEETING MINUTES OF MEETING- DECEMBER 07, 2024

The following members were present in the meeting:

S.No	Name of the Member	Particulars	Responsibilities
1	Dr D Raghu Rami Reddy Management Nominee	Professor (Retd.) SV University, Tirupathi	Chairman
2	Sri.Ch. Mahender Reddy Management Nominee	Secretary, CMR Educational Society	Member
3	Dr G Vijaya Kumari University Nominee	Professor of ECE, JNTUH CEH, Hyderabad	Member
4	Prof R N Yadav UGC Nominee	Professor of ECE, Maulana Azad NIT, Bhopal	Member
5	Smt P Annapurna State Government Nominee	Principal, Govt. Institute of Electronics, Hyderabad	Member
6	Prof P Sanjeeva Reddy Principal Nominee	Dean, International Studies	Member
7	Dr T Venu Gopal Principal Nominee	Dean, Student Affairs	Member
8	Dr VSK Reddy Educational Nominee	Vice Chancellor, Malla Reddy University	Member
9	Dr P Rami Reddy Education Nominee	Former Registrar, JNTUH, Hyderabad	Member
10	Dr Suresh Chandra Satapathy Educational Nominee	National Chairman, CSI (2015-17) Mumbai	Member
11	Sri M Shashikanth Industrial Nominee	Director, Volksoft Technologies Pvt. Ltd., Hyderabad	Member
12	Dr D Pramod Educational Nominee	Professor (Retd), University of Delhi, New Delhi	Member
13	Dr S Srinivasa Rao Principal	Principal, MRCET	Member Secretary

MRCET

Maisammaguda, Dhulapally, Secunderabad -500100, Telangana State, India. **website: www.mrcet.ac.in**
 Contact: 9133555162 / 7207034237 / 9133555183, E-Mail Id: mrcet2004@gmail.com; **EAMCET/ICET/PGE CET Code : MLRD**

22nd GOVERNING BODY MEETING MINUTES OF MEETING- DECEMBER 07, 2024

Following is the agenda points put forward for the approval of the BOG members:

I. Approvals for the A.Y. 2025-26.

1) International Conferences scheduled on June 20-21, 2025 by Engineering and Management specializations.

Resolution:

The Governing Body has noted and appreciated for the conduct of conferences by the above Departments and suggested to continue.

2) Startups & TBI activities planned in the institution and their utilization by the students and faculty.

Resolution:

The Governing Body has noted and appreciated the Start-ups & TBI activities and their utilization by the students and faculty.

3) Planned to apply R&D Projects to various organizations such as DST, AICTE etc.

Resolution:

The Governing Body has noted and appreciated the faculty for proposing R&D Projects to various organizations such as DST, AICTE, UGC etc.,

4) Application in process for NIRF and NIRF Innovation Rankings for the academic year 2025-26.

Resolution:

The Governing Body has noted the information and appreciated the efforts undertaken by the institution.

5) Skill Development Training Programs to cope with new ideology (mode) of Campus placements for IT/Core companies: Technology Training Programmes for Students in AWS Certifications on Cloud Computing, Kotlin Certifications from Google, Web Designing, AI & ML, Deep Learning, Sales Force Technology, Block Chain Technology etc., CRT Training for Students: TIME Institute, Reference Globe, Code Tantra, Certification Programmes: Cambridge Empower, CISCO, Python, Java, Service Now, Pega etc.

Resolution:

The Governing Body has noted the information regarding above points and appreciated the efforts undertaken by the institution.

6) Increase Intake/Closure/Merging of existing courses and introduction of new courses for the academic year 2025-26.

Resolution:

The institute is going with the same intake sanctioned by AICTE for the A.Y. 2024-25 without any changes. The Governing Body approved the same (AICTE EOA for the A.Y. 2024-25 is enclosed).

7) Presentation of Annual Budget for approval for the year 2025-26.

Resolution:

The Governing Body has noted and suggested that the Proposed Annual Budget for the A.Y. 2025-26 will be discussed in the next BOG meeting.

8) Development of Infrastructure and other facilities of the institution.

Resolution:

The Governing Body has approved to proceed the required infrastructure facilities, if any required, as per the budget allocation.

9) AICTE – IIC Quarterly Programs.

Resolution:

The Governing Body has noted and appreciated the efforts made by the institute with respect to AICTE – IIC Quarterly Programs.

10) Faculty Selections and JNTUH Ratification.

Resolution:

The Governing Body has noted and approved the process adopted for Faculty Selection and JNTUH Ratification.

11) Techno-Cultural-Sports Fest: EXUBERANZA 2K25

Resolution:

The Governing Body has approved for the above mentioned activity.

II. Information regarding the ongoing activities.

1) Confirmation of Previous Body Minutes of Meeting - Action taken Report

Resolution:

The Governing Body has noted the action taken report regarding the previous Body Minutes of Meeting and appreciated the outcomes of the completed activities mentioned above.

2) AICTE LITE Minor Degree Program & B.Tech Honors Degree Program

Resolution:

The Governing Body has noted the activities related to AICTE LITE Minor Degree Program and B.Tech Honors Degree Program offered to the students. The Governing Body appreciated and approved the same.

3) NCC Activities

Resolution:

The Governing Body has noted the activities carried out by the NCC Unit and appreciated the same.

II. Any other points with the permission of chair.

With the permission of the chair, the Member Secretary of the Governing Body has highlighted the following points:

- ❖ Academic Council Meeting Details scheduled on November 08, 2024.
- ❖ UGC CPE Application Status.
- ❖ Major Activities carried between 21st BOG meeting and 22nd BOG meeting.
- ❖ Strategic Plan for the A.Y. 2025-26.

Suggestions given by the Governing Body Members:**JNTUH Nominee-Dr G Vijaya Kumari**

- 1) Suggested to utilize the services of Industry people under POP scheme.
- 2) Suggested to include Wadhvani Foundation Entrepreneur Certification Program to the Students along with other Certification Programs that are already provided to the students.
- 3) Suggested to apply to various DST, AICTE, UGC etc Research and other proposals wherever possible.

Government Nominee- Smt P Annapurna

Utilize the services of Alumni to the possible extent.

Education Nominee-Dr P Rami Reddy

Suggested to keep the Infra Structure Facilities ready with respect to the intake i.e. Class rooms and Labs.

Chairman-Dr D Raghu Rami Reddy

Prepare the outcomes of the International Conference and other events organized in the college

College Nominee-Prof P Sanjeeva Reddy

Appreciated the presentation and advised to increase the International Exposure.

With the permission of the Chairman, Dr D Raghu Rami Reddy the meeting was concluded and Member Secretary, Dr S Srinivasa Rao proposed vote of thanks to all the members present for the meeting.

The meeting was concluded at 12.30 p.m.



S. Srinivasa Rao
Dr S Srinivasa Rao

Principal
PRINCIPAL

Malla Reddy College of Engineering & Technology
(Autonomous Institution-UGC, Govt. of India)
Malsammaguda, Dhulapally, Secunderabad-500100.

Academic Council:

The Academic Council will be solely responsible for all academic matters, such as, framing of academic policy, approval of courses, regulations and syllabi, etc. The Council will involve faculty at all levels and also experts from outside, including representatives of the university and the government. The decisions taken by the Academic Council will not be subject to any further ratification by the Academic Council or other statutory bodies of the university. The composition and functions of the Academic Council are;

Recommended composition of the Academic Council and its functions in an Autonomous college.

The Academic council will be responsible for all academic matters such as framing of academic policy, approval of courses, regulations and syllabi.



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November 08, 2024

MEMBERS OF ACADEMIC COUNCIL

A.Y. 2024-25

S.No	Name of the Member	Particulars	Responsibility	Signature
1	Dr S Srinivasa Rao	Principal, MRCET	Chairman	<i>S. Srinivasa Rao</i>
Three Nominees of the University - JNTUH, Hyderabad				
2	Dr M Asha Rani	Sr.Professor of ECE, JNTUH CEH	Member	<i>M. Asha Rani</i>
3	Dr G N Srinivas	Sr.Professor of EEE, JNTUH CEH	Member	<i>G. N. Srinivas</i>
4	Dr G Krishna Mohan Rao	Sr.Professor of ME, JNTUH CEH	Member	<i>G. Krishna Mohan Rao</i>
Four Experts from outside the College-Education, Industry, Law, Commerce & Medicine				
5	Dr VSK Reddy, Education	Vice Chancellor, MRU	Member	<i>V. S. K. Reddy</i>
6	Dr P Rami Reddy, Education	Former Registrar, JNTUH	Member	<i>P. Rami Reddy</i>
7	Sri. T.V. Shiva Rao, Industry	CEO, Future Labs	Member	<i>T. V. Shiva Rao</i>
8	MrK Subhakara Rao, Law	Member, Bar Council of Telangana	Member	<i>K. Subhakara Rao</i>
9	Dr. Y. Ramakrishna Prasad, Commerce	Professor of Commerce, GRIET	Member	<i>Y. Ramakrishna Prasad</i>
10	Dr Mallikarjuna Reddy, Medicine	Director, Strategic Planning, MRVV	Member	<i>M. Mallikarjuna Reddy</i>
Deans & Heads of the College - MRCET				
11	Dr T Venu Gopal	Dean, Student Affairs	Member	<i>T. Venu Gopal</i>
12	Dr PHV Sresha Talpa Sai	Dean, R&D	Member	<i>P. H. V. Sresha Talpa Sai</i>
13	Dr K Kallasa Rao	Dean, Placements & Training	Member	<i>K. Kallasa Rao</i>
14	Dr S Shanthi	Head, CSE	Member	<i>S. Shanthi</i>
15	Dr G Sharada	Head, IT	Member	<i>G. Sharada</i>
16	Dr K Mallikarjuna Lingam	Head, ECE	Member	<i>K. Mallikarjuna Lingam</i>
17	Dr P Srikar	Head, MECH	Member	<i>P. Srikar</i>
18	Dr D Sujatha	Head, CSE[CI]	Member	<i>D. Sujatha</i>
19	Dr M V Kamal	Head, CSE[ET]	Member	<i>M. V. Kamal</i>
20	Dr M Sharanya	Head, EEE	Member	<i>M. Sharanya</i>
21	Dr V Madhusudhan Reddy	Head, H&S	Member	<i>V. Madhusudhan Reddy</i>
22	Dr G Naveen Kumar	Head, MBA	Member	<i>G. Naveen Kumar</i>
Four Teachers of the college representing different categories of teaching staff - MRCET				
23	Dr V Neeraja	Professor of Chemistry, H&S	Member	<i>V. Neeraja</i>
24	Dr K Ramakrishna	Professor & CE, Exam Branch	Member	<i>K. Ramakrishna</i>
25	Dr R Chinna Rao	Professor of ECE	Member	<i>R. Chinna Rao</i>
26	Prof T Satish Kumar	Professor of MBA	Member	<i>T. Satish Kumar</i>
Faculty Member nominated by the Principal to function as Member Secretary				
27	Prof P Sanjeeva Reddy	Dean, International Studies	Member Secretary	<i>P. Sanjeeva Reddy</i>

MRCET

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Contact: 9133555162 / 7207034237 / 9133555183. E-Mail Id: mrcet2004@gmail.com: [EAMCET/ICET/PGECET Code : MLRD](mailto:mrcet2004@gmail.com)



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MINUTES OF MEETING OF ACADEMIC COUNCIL HELD ON 08.11.2024

I. Composition of Academic Council

S.No	Name of the Member	Particulars	Responsibility
1	Dr S Srinivasa Rao	Principal, MRCET	Chairman
Three Nominees of the University - JNTUH, Hyderabad			
2	Dr M Asha Rani	Sr.Professor of ECE, JNTUH CEH	Member
3	Dr G N Srinivas	Sr.Professor of EEE, JNTUH CEH	Member
4	Dr G Krishna Mohan Rao	Sr.Professor of ME, JNTUH CEH	Member
Four Experts from outside the College-Education, Industry, Law, Commerce & Medicine			
5	Dr VSK Reddy, Education	Vice Chancellor, MRU	Member
6	Dr P Rami Reddy, Education	Former Registrar, JNTUH	Member
7	Sri. T.V. Shiva Rao, Industry	CEO, Future Labs	Member
8	Mr K Subhakara Rao, Law	Member, Bar Council of Telangana	Member
9	Dr. Y. Ramakrishna, Commerce	Professor of Commerce, GRIET	Member
10	Dr Mallikarjuna Reddy, Medicine	Director, MRIMS	Member
Deans & Heads of the College - MRCET			
11	Dr T Venu Gopal	Dean, Student Affairs	Member
12	Dr PHV Sesha Talpa Sai	Dean, R&D	Member
13	Dr K Kailasa Rao	Dean, Placements & Training	Member
14	Dr S Shanthi	Head, CSE	Member
15	Dr G Sharada	Head, IT	Member
16	Dr K Mallikarjuna Lingam	Head, ECE	Member
17	Dr P Srikar	Head, MECH	Member
18	Dr D Sujatha	Head, CSE[CI]	Member
19	Dr M V Kamal	Head, CSE[ET]	Member
20	Dr M Sharanya	Head, EEE	Member
21	Dr V Madhusudhan Reddy	Head, H&S	Member
22	Dr G Naveen Kumar	Head, MBA	Member
Four Teachers of the college representing different categories of teaching staff - MRCET			
23	Dr V Neeraja	Professor of Chemistry, H&S	Member
24	Dr K Ramakrishna	Professor & CE, Exam Branch	Member
25	Dr R Chinna Rao	Professor of ECE	Member
26	Prof T Satish Kumar	Professor of MBA	Member
Faculty Member nominated by the Principal to function as Member Secretary			
27	Prof P Sanjeeva Reddy	Dean, International Studies	Member Secretary

MRCET

Maisammaguda, Dhulapally, Secunderabad -500100, Telangana State, India. [website: www.mrcet.ac.in](http://www.mrcet.ac.in)

II. AGENDA OF THE MEETING:

- (a) R24 Academic Regulations & Course Structure for B.Tech, M.Tech and MBA.
- (b) Details of Increase Intake and Addition of New Courses for the A.Y.: 2024-25.
- (c) Induction Program details for I B.Tech/I MBA Students for the A.Y.: 2024-25 and Academic Calendars for the A.Y. 2024-25.
- (d) Procedure for credit detention, R20/R22/R24 Grace marks for Eligible Students and Details about B.Tech Honors.
- (e) R&D Activities
- (f) Details about Recent Achievements.
- (g) Skill Development Programs (Soft Skills and Technology Skills)
- (h) Placement Details
- (i) Any other suggestions/advice by the Academic Council
- (j) Vote of thanks

III. MINUTES OF MEETING

- Dr. S Srinivasa Rao, Principal has extended a warm welcome to all the distinguished members for the Academic Council Meeting and presented briefly the academic best practices, achievements and other programs undertaken by the college as per the points mentioned in the agenda one by one in detail.
- R24 Academic regulations and Course structure of B.Tech, M.Tech and MBA has been presented to all academic council members and got approved.
- Dr M Asha Rani, Senior Professor of ECE, JNTUH Hyderabad has suggested (i) to give provision for Internships in the Academic Calendars (ii) to encourage UG and PG Students to do internship in Core Industries (iii) to prepare the outcomes of all the events and activities organized by the Departments (iv) Outcomes obtained w.r.t the MoUs (v) Refresher Courses are to be conducted for the newly joined Faculty members (vi) Absorption of the Students in the companies after internship without any bond (vii) Training to be provided to the students to get placed in core companies. She appreciated with respect to the increase in intake, no. of placements and other achievements of the college.
- Dr G Krishna Mohan Rao, Senior Professor of Mechanical Engineering has appreciated the overall presentation and has suggested to scrutiny the Research Project Proposals by experts before forwarding them to DST, AICTE, SERB and other Government Organizations.
- Sri T V Shiva Rao, CEO, Future Labs, Hyderabad [Industry nominee] has suggested to provide Virtual Reality based Industrial Visits and conduct Environment Awareness Programs. He also suggested to provide Bio-diesel vehicles for transportation, if possible.
- Prof P Rami Reddy, Former Registrar, JNTUH Hyderabad [Education Nominee] has appreciated the overall presentation and increase in intake.

- Principal has taken the approval from the academic council members regarding Academic Calendars of B.Tech, M.Tech and MBA for the A.Y. 2024-25, sanction of grace marks for R20 B.Tech regular admitted students under the regulation of R-20 i.e (2020-21 & 2021-22 batch) are eligible to get grace marks of thirty (30) for any number of theory subjects for the award of B.Tech degree after completion of the course and for B.Tech Lateral Entry admitted students under the regulation of R-20 i.e (2021-22 & 2022-23 batch) are eligible to get grace marks of twenty three (23) for any number of theory subjects for the award of B.Tech degree after completion of the course, Credit Based Detention applicable for all the eligible students as per JNTUH Hyderabad norms and Implementation of B.Tech Honors Program as per JNTUH Hyderabad norms.
- Also taken approval for the sanction of grace marks for R22/R24 B.Tech regular admitted students under the regulation of R-22 and R24 i.e (2022-23 & 2023-24 batch), (2024-25 & 2025-26) are eligible to get grace marks of eight (08) for one or two theory subjects for the award of B.Tech degree after completion of the course and for B.Tech Lateral Entry admitted students under the regulation of R-22/R24 i.e (2023-24 & 2024-25 batch), (2025-26 & 2026-27) are eligible to get grace marks of six (06) for one or two theory subjects for the award of B.Tech degree after completion of the course, Credit Based Detention applicable for all the eligible students as per JNTUH Hyderabad norms and Implementation of B.Tech Honors Program as per JNTUH Hyderabad norms.
- Principal Dr S Srinivasa Rao thanked all the distinguished members for sparing their valuable time and making useful suggestions. He requested for their continued cooperation and valued suggestions.
- Prof P Sanjeeva Reddy, Dean Foreign Studies, Member Secretary of Academic Council Committee has proposed Vote of Thanks.




Dr. S Srinivasa Rao

Principal
PRINCIPAL

Malla Reddy College of Engineering & Technology
(Autonomous Institution-UGC, Govt. of India)
Malsammaguda, Dhulapally, Secunderabad-500100.

PHOTO GALLERY – ACM MEETING HELD ON 08.11.2024



FINANCE COMMITTEE:

The Finance Committee will advise the Governing Body on financial matters and shall meet at least twice a year. The composition and functions of the Finance Committee are

The composition and functions of **Finance committee** are given below

Composition

S.No	Name of the Person	Designation	Position
1	Dr. S Srinivasa Rao	Principal	Chairman
2	Dr. T Venugopal	Dean, MRCET	Member
3	Prof. P Sanjeeva Reddy	Dean, International Studies	Member
4	Prof. K Kailasa Rao	Dean, Placements	Member
5	Dr. PHV Sessa Talpa Sai	Dean, R&D	Member
6	Dr. K Mallikarjuna Lingam	Head of the Dept., ECE	Member
7	Prof. D Sujatha	Head of the Dept., CSE[AIML]	Member
8	Dr. G. Sharada	Head of the Dept., IT	Member
9	Dr S Shanthi	Head of the Dept., CSE	Member
10	Dr M V Kamal	Head of the Dept., CSE[DS]	Member
11	Dr. P Srikar	Head of the Dept., MECH	Member
12	Dr Mohammed Mohaideen	Head of the Dept., ANE	Member
13	Dr. M Sharanya	Head of the Dept., EEE	Member
14	Dr. V Madhusudhan Reddy	Head of the Dept., H&S	Member
15	Prof. G Naveen Kumar	Head of the Dept., MBA	Member

Term of members: 2 years

Functions:

Finance Committee will propose the budget of the institution for construction, purchase of equipment, consumables etc., depending upon the finance available. The Committee formulates and approves the budget estimates department-wise for purchase of lab equipments, consumables and non-consumables, year to year. The Committee estimates the probable inflows and outflows for the institution and arrives at the budget.

PLANNING COMMITTEE

The composition and functions of Planning committee are given below

Composition:

S.No	Name of the Person	Designation	Position
1	<u>Sri Ch Mahender Reddy</u>	Secretary, MRGI	Chairman
2	<u>Dr. S Srinivasa Rao</u>	Principal	Convener
3	<u>Dr. T Venugopal</u>	Dean, MRCET	Member
4	<u>Prof. P Sanjeeva Reddy</u>	Dean, International Studies	Member
5	<u>Prof. K Kailasa Rao</u>	Dean, Placements	Member
6	<u>Dr. PHV Sessa Talpa Sai</u>	Dean, R&D	Member
7	<u>Dr. K Mallikarjuna Lingam</u>	Head of the Dept., ECE	Member
8	<u>Prof. D Sujatha</u>	Head of the Dept., CSE[AIML]	Member
9	<u>Dr. G. Sharada</u>	Head of the Dept., IT	Member
10	<u>Dr S Shanthi</u>	Head of the Dept., CSE	Member
11	<u>Dr M V Kamal</u>	Head of the Dept., CSE[DS]	Member
12	<u>Dr. P Srikar</u>	Head of the Dept., MECH	Member
13	<u>Dr Mohammed Mohaideen</u>	Head of the Dept., ANE	Member
14	<u>Dr. M Sharanya</u>	Head of the Dept., EEE	Member
15	<u>Dr. V Madhusudhan Reddy</u>	Head of the Dept., H&S	Member

Term of members: 2 years

Functions:

The Planning Committee is very important for establishing a path of progress for the institution from time to time. It should also monitor the progress from time to time. The Committee plans major things such as addition of new UG/PG programme and/or applying for additional intake for the existing programmes. It also plans the building required in the campus as also the need for adding facility to the students to concentrate on their education.



SERVICE RULES



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

Sponsored by CMR Educational Society

(Affiliated to JNTUH, Hyderabad, Approved by AICTE - Accredited by NAAC – 'A' Grade - ISO 9001:2015 Certified)

Maisammaguda, Dhulapally, Kompally, Secunderabad – 500100, Telangana State, India.

Contact Number: 7207034237, 9133555162, E-Mail ID: mrcet2004@gmail.com, website: www.mrcet.ac.in



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

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SERVICE RULES

I. Preamble

1. The Service Rules shall be called as **"The Malla Reddy College of Engineering and Technology Service Rules"**. These rules shall superseded the existing Service Rules.
2. They shall be deemed to have come into effect and shall apply to all the employees of the College as per their date of joining.

II. Definitions

3. **'College'** means The Malla Reddy College of Engineering and Technology, Maisammaguda (V), Dhulapally (Post Via Kompally), Secunderabad – 500 100, Telangana State.
4. **'Management'** means The Management Committee of the College constituted as per AICTE Norms
5. **'Governing Body'** means The Governing Body of the College' constituted as per AICTE Norms.
6. **'Constitution of Governing Body'** – It shall have a Senior Faculty Member of the Teaching Staff as a representative.
7. **'Chairman'** means The chairman of the Managing Committee/The Governing Body of the College.
8. **'Secretary & Correspondent'** means "The Secretary & correspondent of the College".
9. **'University'** means JNT University, Hyderabad.
10. **'Principal'** means 'The Principal of the College or any other person authorized by the Management to discharge the duties and responsibilities of the Principal. Whatever may be his/her designation, otherwise".
11. **'Employee'** means A person who is employed by the College including Principal and vice-Principal excluding those who are engaged on part time basis or daily wages".
12. **'Teaching Staff'** Comprises the following categories:
 - a. Principal
 - b. Director
 - c. Professor
 - d. Associate Professor

- e. Assistant Professor
- f. Any other category of post declared so by the Management.

13. **'Technical Staff'** Comprises the following categories:

- a. Foreman
- b. Programmers, Assistant Programmers, Computer Operators
- c. Technicians and Lab Assistants

14. **'Non-Teaching Staff'** means Those staff that are categorized as follows:

- a. Office
 - i. Manager/Administrative Officer
 - ii. Superintendent
 - iii. Senior Assistant
 - iv. Junior Assistant
 - v. Steno-Cum-PA to Principal
 - vi. Typist
 - vii. Record Assistant
 - viii. Attender
 - ix. Transport Staff
- b. Contingent Staff
 - i. Watchman/Attenders
 - ii. Gardener
 - iii. Sweepers etc.,

15. **'Competent Authority'** – Chairman/Secretary & Correspondent in the case of Principal and Principal in the case of the employees.

16. **'Duty'** – An employee is said to be on duty for the purpose of service

- a. When the employee is discharging the duties of the post to which he/she is undergoing training prescribed for the post.
- b. When the employee is absent from duty on authorized holidays, on permitted vacation or when availing any leave sanctioned by the Competent Authority.
- c. When the employee is attending Conferences, Seminars, Summer Schools, Workshops, Refresher Courses, Orientation Courses, Winter Schools, Quality Improvement Programmes etc., duty permitted by Competent Authority, and
- d. When the employee is attending to the work assigned by the competent Authority in the interest of College/Management.

17. **'Leave'** means Leave granted by Competent Authority to an employee for which he/she is eligible.

18. **'Pay'** means Basic Pay in the time scale or Basic Pay with a Special Pay/Allowance as the case may be.

19. **'Year'** means Calendar year/Financial Year/Academic Year as the case may be.

III. Appointment

The management is the Competent Authority to appoint any employee. The Management or Principal on behalf of the Management shall issue the Appointment Orders.

Staff Strength

- a) The Teaching Staff shall be as per AICTE/UGC Norms
- b) The Non-Teaching Staff Strength shall be as per Telangana State Government/University Norms

Qualifications

The Qualifications age, experience etc, shall be as per AICTE/UGC Norms in respect of Teaching Staff and as per Telangana State Government/University Norms in respect of Non-Teaching Staff.

Selection

The rules prescribed for selection of employees from time to time of AICTE/University/Government of Telangana State shall be followed.

- a) Staff Selection Committee shall be constituted as per the G.O. MS No. 525 Edn (n) Dept., dt. 29.11.1983 and subsequent notifications for filling up Teaching and Non-Teaching Posts.
- b) A post shall be filled up by direct recruitment through open advertisement or by promotion from among qualified and eligible internal candidates, as directed by Governing Body.
- c) The Management/Governing Body may in special circumstances appointed persons by invitations/deputation/contract basis year after year up to a maximum of Five years or up to maximum age of Sixty Five years.

IV. Seniority

In the case of two or more persons selected for appointment at the same time to a category of post, the appointing authority shall fix the order of seniority among them as per the merit order fixed by the selection committee or as per the time and date of joining.

V. Pay, Allowance, Increments

- a) **Pay:** AICTE/UGC scales of pay as applicable from time to time shall be adapted to the posts classified as Teaching Staff.
Telangana State Government/University scales of pay as applicable from time to time shall be adapted to the posts classified as Non-Teaching Staff.
- b) **Allowances** – Dearness, House Rent and other allowances as per Telangana State Government rates and rules as extended by Management are adapted from time to time to all regular employees of the college.
- c) **Sanction of Increments**
 - a) The University/College Staff Selection Committee is the Competent Authority to recommend advance increment to the candidates selected based on their qualifications/specialization and experience.

- b) Regular Increments- Increments shall be sanctioned by the Principal only on satisfactory performance of the employee as recommended by the Head of the Department. In the case of HOD, Principal is the sanctioning Authority. In the case of Principal, Chairman/Secretary & Correspondent is the sanctioning authority. In the case of employee in the office and other Supporting Staff, Principal is the Sanctioning Authority as recommended by the Manager/Admn Officer.

The management shall have the authority to withhold an increment for a certain period not exceeding One Year as a disciplinary measure on sufficient and valid reasons and after the employee has been given a fair opportunity to defend oneself.

- c) The Governing Body/Management shall be the Competent Authority to implement Career Advancement Scheme as per the relevant UGC/University/Telangana State Government Norms.

VI. General Service Conditions

1. All the employees of the College shall be subject to the general disciplinary and conduct rules of the College.
2. All the employees of the College are required to be present in the College timings the working hours of the College on all working days.
3. An employee of the College shall be devote his/her whole time to the service of the College and Shall not engage directly or indirectly in any trade or business or private tuition or any other work, which is likely to interfere with the proper discharge of his/her duties. This provision shall not apply to academic work relating to University examinations, question papers setting, delivering Guest Lectures and any other work undertaken with the prior permission of the Principal/Management.
4. An employee may be placed under suspension by the appointing authority pending enquiry into framed charges by giving the employee affair chance to represent his/her case. Principal is empowered to suspend any employee if it is in the interest of the College and report his action to the Management and the University as the case may be.
5. The service of an employee, is liable to be terminated on ground of fraud, gross indiscipline, negligence of duties, prolonged illness, disability to discharges his/her official duties satisfactorily etc., giving 3 months notice or 3 months' salary in lieu thereof for regular employee. The employee concerned however shall be given full and fair opportunity to represent his/her case before effecting such termination. In all such cases the Telangana State Government Rules in force shall be applicable.
6. No application of any employee seeking employment elsewhere shall be forwarded till completion of one year of service at MRCET.
7. Any employee may resign from his/her post with three months' notice or on payment of three months' gross salary in lieu thereof. However, it would be appreciated if the employee does not leave the service during any ongoing semester

as it leads to disruption of academics and the three months' notice period is applicable to the institute also.

VII. Leave Rules

(a) General

- i. Leave cannot be claimed as a matter of right. The sanctioning authority has full discretion to refuse or revoke leave of any kind when the exigencies of service so demand.
- ii. A leave account shall be maintained for each employee.
- iii. An employee shall not take up any service or accept any employment, while on leave.
- iv. For casual leaves, recommending authority is the Head of the Department for Teaching/Non-Teaching Staff. Principal shall be the competent authority to grant all kinds of leaves on the recommendation of HOD/AO as the case may be. In case of Principal, Chairman/Secretary & Correspondent shall be the authority to sanction leave.
- v. Either prefixing or suffixing of any kind of leave with vacation is allowed only on prior approval by the Principal.
- vi. Any kind of leave may be granted in combination with or in continuation with any other kind of leave except C.L. with prior approval.
- vii. Employees when deputed on official duty or on College Work, the period of their absence shall be treated as '**On Duty**'.

(b) Casual Leaves

- i. All employees of the College shall be entitled to Twelve days of Casual Leave proportional to the service put in by an employee during the year of his/her initial employment.
- ii. Casual Leave in and one stretch shall not exceed seven days in total period of ten days prefixing, suffixing or sandwiching with public holidays.
- iii. Casual Leaves for half day can be granted to an employee for the Forenoon or Afternoon Session.
- iv. In normal circumstances, casual leave requires advance sanction. The employee has to make alternate arrangements for his/her work.

(c) Academic Leave

- i. All the teaching staff shall be eligible for maximum 5 days of Academic Leave for the purpose of attending workshops, Seminars, conferences, training courses and academic meetings outside MRCET after approval by the Principal.

(d) Medical Leave

- i. All the staff are eligible to avail Medical Leave up to maximum of 4 days (Male Faculty) and 5 days (Female Faculty) for medical treatment after approval by the Principal.

(e) Compensatory off leave

- i. The Compensatory off leave shall be granted to those staff who attend duty on Sundays and holidays, subject to a maximum of 5 days in an academic year.

(f) Maternity Leave

- i. All women employees are entitled to a maternity leave of 90 days each for first two issues.

(g) Vacation

The faculty who have completed one year of service can avail summer vacation for a maximum of 4 weeks in an academic year. Others can avail proportionately. Vacation is sanctioned by the Principal subject to recommendation by the Heads of the Department.

Faculty Improvement Programme

- a. The faculty members may be permitted to improve their Academic Qualifications by attending Courses/Research work.
 - i. The faculty deputed must have served in this College for a minimum period of three consecutive years. Management is the Sanctioning Authority for such leave on the recommendations of the Principal and Head of the Department concerned.

VIII. Leave Rules for Contingent Staff

All the Contingent Staff of the College are eligible for a Casual Leave of 10 days in a Calendar Year and other leaves of 10 days.

IX. Travelling Allowance, Daily Allowance, Local Transport

Employees of the College when deputed to any out station shall be entitled to travelling allowances, daily allowances and other permissible expenses they incur. These shall be regulated as under:

Note: It is fundamental principle that allowance is not to be a source of profit and no allowance is granted to cover the expenses of family members accompanying them when travelling on duty.

Grades. All the staff, both Teaching and Non-Teaching is classified into two Grades as follows:-

i. **Grades-I** The entire regular teaching staff of Asst. Professor cadre and above.

ii. **Grade – II** All the non-teaching staff and all other employees.

* Employees of Grade – I are eligible to travel by 1st Class/AC Two Tier Class. All the other employees are eligible to travel by AC Three Tier.

X. Daily Allowances

Daily Allowances admissible to different grades of employees shall be applicable as per the norms of the Institution/University/Telangana State Government.

For the purpose of claiming D.A the absence of the employee from the college is reckoned i.e., the time between the employee left the college and the time he returned to the College shall be taken.

(a) **Allowance for presenting papers in Seminar/Conferences etc.,**

The regular Teaching Staff who are sponsored for presenting papers in Seminars/Conferences are eligible to travel by 1st Class in addition to reimbursement of registration fee. No DA is admissible. This facility is limited to once in an Academic Year i.e., July-June.

b. **Allowance for Attending Seminars, Q.I.P. Courses, Refresher Courses etc.,**

The regular Teaching Staff who are permitted to attend the Seminars as Delegates, and to undergo Q.I.P. Courses, refresher Courses etc., are eligible to travel by II Sleeper Class. No D.A. is admissible. This provision is not extended when the organizing agency is meeting the T.A.

CONDUCT RULES FOR ALL EMPLOYEES

- (a) Every employee shall be Governed by these rules and is liable for all consequences in the event of any breach of rules by him/her.
- (b) The appointee/employee should abide by the rules and regulations of MRCET. The appointee should furnish the details such as bank Account Number, PAN Number and deposit all the relevant certificates in support of the qualification and experience. The appointee should submit the joining report and sign an undertaking accepting to serve for a minimum period of one year.
- (c) Every employee shall all times maintain integrity of Character, be Devoted to his/her duty and be honest and impartial in his/her official dealing. An employee shall, at all times be courteous and polite in his/her dealings with the Management, Principal, other Members of Staff, Students and with Members of the Public. He/She shall exhibit utmost loyalty and shall, always act in the best interest of the College.
- (d) An employee shall be required to observe the scheduled hours of working during which he/she must be present at the place of his/her work. No employee shall be absent from duty without prior permission.
- (e) No employee shall be a member of any political party or shall take part in politics or to be associate with any party or organization, which takes part in political activity, nor shall aid or assist in any manner any political movement or activity.
- (f) No employee shall make any statement, publish or write through any media which has the effect of an adverse criticism of any policy or action of the College or detrimental to the interest of the College.
- (g) No employee can engage directly or indirectly in any trade or any private tuition or undertake employment outside his official assignment, whether for any monetary gain or not.
- (h) An employee against whom insolvency proceedings commenced in a Court of Law shall forthwith report full facts thereof to the College.
- (i) An employee against whom criminal proceedings are initiated in a court of law shall immediately inform the competent Authority of the College regarding the details thereof. No employee shall except with prior permission of the Competent Authority, have recourse to law or the press for the vindication of any official act of

the College, which has been the subject matter of criticism or attach defamatory character.

- (j) Whenever an employee wishes to put forth any claim or seeks redress of any grievance he/she must forward his/her case in writing through proper channel to the competent Authority and shall not forward any such advance copies of his/her claim To any higher authorities unless the competent authority has rejected his/her claim or refused redress of the grievance or has delayed the matter beyond a reasonable time.
- (k) An employee who commits any offence or dereliction of duty or does an act detrimental to the interests of the College is subject to an enquiry and punishment by the Competent Authority. However, any employee aggrieved with the decision of the Competent Authority may appeal against such punishment or decision within 15 days of the receipt of the orders of the decision to the Management and the decision of the Management thereon, is final and binding on the employee.
- (l) No employee shall engage in strike or incitement thereto or similar activities such as absence from work or neglect of duties or participate in hunger strike etc. Violation of this rule will amount to misconduct and attract deterrent punishment.

XI. Disciplinary Action

- (a) All employees are liable for disciplinary action for disobedience, misconduct and dereliction/negligence of duty. However, such disciplinary action shall be taken after establishing the grounds on which the disciplinary action is initiated and after a reasonable opportunity has been provided to the disciplinary action is initiated and after a reasonable opportunity has been provided to the employee to defend himself/herself.
- (b) As part of the disciplinary action, the following punishments for good and sufficient reasons may be imposed upon the employees of the institutions, after establishing the facts about committing an offence and dereliction/negligence of duties.
 - i. Censure
 - ii. Withholding increments/promotion
 - iii. Recovery from his/her salary whole or part of any pecuniary loss caused to the college due to negligence of duty or breach of orders/rules
 - iv. Suspension
 - v. Removal from service.
- (c) If the competent authority feels it necessary to constitute an enquiry as a part of the procedure for taking disciplinary action, the enquiry committee shall consist of three members, HOD and two other senior faculty members.
- (d) An employee can appeal against any punishment imposed upon him/her by the competent authority to the management / governing body as the case may be.

Sd/-
Dr. S Srinivasa Rao
Principal

CLASS REVIEW COMMITTEE:

Composition

Number	Category	Nature
1 member	Head of the Department of the concerned branch	Chairman
6 members	Class Teachers	Nominated by the Head of the Department.
1 member	Class Representative	Nominated by the Head of the Department
1 member	Girl Representative	Nominated by the Head of the Department

Term of members: One Semester

Functions:

The vital function of this committee is to maintain close rapport with the students. The committee will observe, understand the feelings and discuss difficulties experienced by the students in both teaching and any other matters for finding corrective measures.

The co curricular and extracurricular activities will be discussed with the members for selecting the programs. This enhances the motivation and improves the performance of the students.

10.1.4 Decentralization in working and grievance redressal mechanism (5)

Institute Marks : 5.00

DECENTRALIZATION IN WORKING:

Composition of committee authorized and delegated to take administrative decisions.

Governing body of the institution has approved the constitution of the committee for de-centralization for working.

S.No	Name	Department	Designation
1	Sri. Ch. Mahender Reddy	Secretary, MRGI	Chairman
2	Dr. S Srinivasa Rao	Principal	Member Secretary
3	Dr. T Venugopal,	Dean, Student Affairs	Member
4	Dr D Sujatha	Dean, CSET	Member
5	Dr PHV Sessa Talpa Sai	Dean, R&D	Member
6	Prof P Sanjeeva Reddy	Dean, International Studies	Member

The committee implements de-centralization in working of the institution in the following ways.

- Recommends to the heads of various departments regarding appointment of faculty/staff to meet emergency requirements arising in between the academic year.
- The committee recommends delegation of financial powers to heads of department up to a limit of Rs.3,00,000/- year co-coordinator/Lab incharge limit of Rs.1,00,000/- for meeting the training needs of the students as well as improving the equipment infrastructure.
- Recommends all the departmental heads to deal with the day to day academic/administrative issues arising in respect of faculty and students.

The departmental head/year coordinators are delighted with powers to initiate the training programs beyond the syllabus and also to arrange internship programs in industry for the students to bring them up to match with industry needs.

GRIEVANCES AND REDRESSAL COMMITTEE:

The composition and the functions of the committee are given below

S.No	Name	Dept	Designation
1	Dr. S Srinivasa Rao	Principal	Convener
2	Dr. T Venugopal	Dean, MRCET	Member
3	Prof. P Sanjeeva Reddy	Dean, International Studies	Member
4	Prof. K Kailasa Rao	Dean, Placements	Member
5	Dr. PHV Sessa Talpa Sai	Dean, R&D	Member
6	Dr. K Mallikarjuna Lingam	Head of the Dept., ECE	Member
7	Prof. D Sujatha	Dean, CSET	Member
8	Dr. G. Sharada	Professor, CSE	Member
9	Dr S Shanthi	Head of the Dept., CSE	Member
10	Dr M V Kamal	Professor, CSE	Member
11	Dr. P Srikar	Head of the Dept., MECH	Member
12	Dr Mohammed Mohaideen	Head of the Dept., ANE	Member
13	Dr. M Sharanya	Head of the Dept., EEE	Member
14	Dr. V Madhusudhan Reddy	Head of the Dept., H&S	Member

Term of Members: 2 years**Functions:**

Sometimes the faculty and students may have some grievances against the management on some issues. Since the grievance has to be satisfactorily resolved, a committee is required to redress it. Hence grievance committee is formed. The committee is supposed to examine the issue and suggest the redressal actions for satisfaction of the employees which enhances his performance.

As a part of the Grievance Redressal Committee, a separate sub-committee is constituted which will specifically look into complaints received pertaining to sexual harassment of women at the work place. The sub-committee is comprised of the following:

Chairman-Principal

Senior Lady HOD's-2 members

Administrative Officer- Convener



The person found guilty of sexual harassment will be given strict warning and depending on the severity of the offence will be suspended/terminated from his service.

ANTI RAGGING COMMITTEE**Composition****STUDENT MEMBERS:**

Term of members: One Year

Function

- Nowadays many cases of teasing the girls and junior students are observed in colleges. In view of it an Anti ragging committee is constituted in the college to be vigilant and taking precautionary measures for avoiding such incidents in the college. This gives a continuous assurance and confidence to the parents of new entrants of the college driving out the fear perception from their minds.
In the process, if anybody is found guilty, strict punishment will be awarded by the committee.




















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MRCET/ANTI-RAGGING/2024-25/01 September 09, 2024

ANTI RAGGING

All the faculty members and students are aware that the Ragging is prohibited in Education Institutions and the Anti-Ragging G.O.s released by Govt. of Telangana and Govt. of India in this regard. However, based on the instructions from the Govt. of Telangana and JNTUH, Hyderabad the precautionary measures are to be taken to avoid indecent activities in the campus. In this connection an Anti-Ragging Committee has been constituted with the Faculty & Staff members of the college.

ACTION COMMITTEE:

Mr. K. Vijay Vardhan, Inspector of Police, SHO, Petbasheerabad, Contact Number: 9490617229	
Mr. Praveen Kumar, Sub Inspector, Sector Incharge, Malsammaguda, Contact Number: 8712663244	
Dr. S. Srinivasa Rao, Principal	- Chairman 
Dr. T. Venugopal, Dean (Student Welfare), ECE	- Member 
Dr. S. Shanthi, Professor, Head-SoCSE1	- Member 
Dr. G. Sharadha, Professor, Head-SoCSE2	- Member 
Dr. M V Kamal, Professor, Head-SoCSE3	- Member 
Dr. D. Sujatha, Professor, Head-SoCSE4	- Member 
Dr. P Srikar, Professor, Head-MECH	- Member 
Dr. K. Mallikarjuna Lingam, Professor, Head-ECE	- Member 
Dr. M Sharanya, Professor, Head-EEE	- Member 
Dr. M. Mohammed Mohaideen, Professor, Head-ANE	- Member 
Dr. V. Madhusudhan Reddy, Professor, Head-HBS	- Member 
Prof. G. Naveen Kumar, Professor, Head-MBA	- Member 
Prof. T. Satish Kumar, Professor, MBA	- Member 
Mr. B. Rajeshwar Reddy, AO	- Member 
Mr. G. Shyam Reddy, Physical Director	- Member 
Mr. A. Venkateshwarlu, Transport I/c	- Member 

MRCET

Malsammaguda, Dhulapally, Secunderabad -500100, Telangana State, India. website: www.mrcet.ac.in
 Contact: 9133555162 / 7207034237 / 9133555183, E-Mail id: mrcet2004@gmail.com; EAMCET/ICET/PGECET Code : MLRD

SUB-COMMITTEE – 1 (9.20 a.m. to 10.00 a.m.)			
Dr. M.Arun Kumar (ECE)	–	Co-convenor	- 9849750794
Dr. Sambasivudu (SoCSE1)	–	Member	- 9912677339
Dr. E. Taraka Ramudu E (H&S)	–	Member	- 9440996728
DR. Firoj Ahmmed (H&S)	–	Member	- 7618389713
Mr. V. Srinivas (H&S)	–	Member	- 8179858377
Mr. Ch. Kiran Kumar (ECE)	–	Member	- 9550088041
Mr. Matla Naresh (EEE)	–	Member	- 9959930032
Dr. Srikanth (MBA)	–	Member	- 9866301832
Mr. K. Sudheer (MBA)	–	Member	- 9985301815
Mr. M. Vazralu (IT)	–	Member	- 7337423962
Mr. Y. Dilip Kumar (MECH)	–	Member	- 9866293937
Mr. Balasani Venkata Ramudu (CSE)	–	Member	- 7013014674
Mr. G. Ravi (CSE)	–	Member	- 9000325230
Mr. Sunkari Shekar (IT)	–	Member	- 8885643055
SUB-COMMITTEE – 2 (12.40 Noon to 01.30 p.m.)			
Dr. Vengal Rao Pachava (H&S)	–	Convener	- 9948259202
Mr. Nageswara Rao Dupati (EEE)	–	Member	- 9849725576
Mrs. R. Radha (CSE)	–	Member	- 9959733372
Dr. Sarabha Reddy (H&S)	–	Member	- 8978466743
Ms. D Radha Pyari (H&S)	–	Member	- 9652874287
Dr. Srikanth Reddy Tulsani (H&S)	–	Member	- 8806320780
Mr. G.Rekha (H&S)	–	Member	- 9642614290
Mr. Thorthi Naveen (H&S)	–	Member	- 9966567261
Dr. G. Archana (MBA)	–	Member	- 9963583252
Dr. Krishna Anand V G (ANE)	–	Member	- 7550151941
Mr. Sai Satyanarayana (ANE)	–	Member	- 9885694929
Mr. S. Mahender (ANE)	–	Member	- 9290423773
Mr. Bagathi Venkata Hari Prasad (MECH)	–	Member	- 8019455526
Mr. N Ramesh (EEE)	–	Member	- 8801114502
Mr. R. Chandrashekar (IT)	–	Member	- 9949723753
Mr. P.V.Naresh (IT)	–	Member	- 9573445746
SUB-COMMITTEE – 3 (3.30 p.m. to 3.50 p.m)			
Prof. T. Sathish Kumar (MBA)	–	Convener	- 9848203140
Mr.M. Ramanjaneyulu (ECE)	–	Member	- 9490312325
Mr. K.D.K. Ajay (ECE)	–	Member	- 9948818655

Mr. Rallabandi Sethish Kumar (ECE)	-	Member	-	9491050418
Dr. A. Mummoorthy (IT)	-	Member	-	9894764884
Mr. Manoj Kumar (CSE1)	-	Member	-	9912387878
Mr. Kolluri Ravinder (CSE1)	-	Member	-	9576229623
Mr. Y. Parashuram (CSE3)	-	Member	-	7702661491
Mr. Mahendar Jinukala (CSE3)	-	Member	-	9949691286
Mr. Abdul Saleem (CSE4)	-	Member	-	7660000933
Mr. Muggu Naga Siva Gangadhar (CSE4)	-	Member	-	7382588089
Mr. U. Rakesh (CSE4)	-	Member	-	9550808096
Ms. T. Anitha Kumari (H&S)	-	Member	-	9642140096
Mr. K. Narendra (H&S)	-	Member	-	9492464439
Mr. K. Bicha (MECH)	-	Member	-	9505771214
Mr. Tilak Raj (ANE)	-	Member	-	9618884760
Mr. Dinesh Gupta (ANE)	-	Member	-	9494822831
Mr. P. Prashanth Reddy (MBA)	-	Member	-	6281618126
Mr. Venu Gopal Koppada (H&S)	-	Member	-	9502141518

All the members of the committee are requested to consider this aspect very seriously and your cooperation is highly appreciated in this regard.



S. Srinivasa Rao
Dr. S. Srinivasa Rao
Principal

PRINCIPAL
Malla Reddy College of Engineering & Technology
(Autonomous Institution-UGC, Govt. of Telangana)
Matsammaguda, Dhulapally, Secunderabad-500 082.

STUDENT MEMBERS

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**SRINIVASA
RAO
SURAMPUDI**

Digitally signed by SRINIVASA
RAO SURAMPUDI
DN: cn = SRINIVASA RAO
SURAMPUDI C = IN, o =
Technology C = APALLA REDDY
COLLEGE OF ENGINEERING
AND TECHNOLOGY
Date: 2024.12.10 12:32:03 +05'30'

Srinivasa Rao
Dr. S.Srinivasa Rao
Principal

PRINCIPAL
Malla Reddy College of Engineering & Technology
(Autonomous Institution-UGC, Govt. of India)
Narasimmapeta, Distapally, Secunderabad-500030

10.1.5 Delegation of financial powers (5)

Institute Marks : 5.00

The Delegation of Financial Powers Rules (DFPRs) are a set of rules that govern how financial powers are given to different authorities. The DFPRs are issued by the Finance Committee after the approval of the management.

Functions of DFPRs:

The DFPRs outline how powers can be given to administrators, heads of departments, and other authorities

The DFPRs specify the conditions and limits for writing off losses

The DFPRs outline the principles for sanctioning grants, scholarships, and loans

The DFPRs outline how purchasing powers can be delegated to departments

Rules for using DFPRs:

The Finance Ministry must give prior consent for any expenditure that involves a new practice or principle that could increase future expenditure

Subordinate authorities can exercise the power to sanction expenditure as per any general or special order

The governing body approves the delegation of financial powers to the principal, HODs and relevant in charges in the proportion mentioned below:

Principal	-	25,00,000/-
HOD's	-	3,00,000/-
Relevant incharges	-	1,00,000/-

10.1.6 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

The information on policies, rules and processes is made available in the institution website for use by all the stake holders.

Institution website: www.mrcet.ac.in

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS INSTITUTION - UGC, GOVT. OF INDIA)
Affiliated to JNTUH, Approved by AICTE, NBA-Tier 1 & NAAC with A-GRADE | ISO 9001:2015

UGC AUTONOMOUS | NAAC | NRI | ISO

EAMCET/ECET/ICET/PGECET Code : **MLRD**

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BAND - EXCELLENT

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10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (15)

Total Marks 15.00

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY : (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2023-2024

Total Income 636570000				Actual expenditure(till...): 580000000			Total No. Of Students 5586
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
335344000	235676000	550000	65000000	525000000	55000000	0	103831.01

Table 2 - CFYm1 2022-2023

Total Income 676534230				Actual expenditure(till...): 676534230			Total No. Of Students 5373
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
411405000	206515000	652501	57961729	620714736	55819494	0	125913.69

Table 3 - CFYm2 2021-2022

Total Income 595671193				Actual expenditure(till...): 595671193			Total No. Of Students 4826
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
374015000	173550000	465100	47641093	591555058	4116135	0	123429.59

Table 4 - CFYm3 2020-2021

Total Income 557373940				Actual expenditure(till...): 557373940			Total No. Of Students 4582
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
304615792	137595000	420000	114743148	555332131	2041809	0	121644.25

Items	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till
Infrastructure Built-Up	3265000	2985600	3250000	3124655	800000	769519	550000	523311
Library	1750000	1650000	1500000	1327642	900000	880909	800000	750500
Laboratory equipment	2750000	2500000	2500000	2282936	5000000	4690173	1000000	1016038
Laboratory consumables	1250000	1000000	1200000	1097866	175000	160999	275000	280747
Teaching and non-teaching staff	3780000	3150000	4000000	3546120	2500000	2309415	2500000	1516560
Maintenance and spares	3500000	2500000	3000000	2441274	1850000	1790119	650000	566083
R&D	5500000	3500000	4500000	3654975	175000	150000	250000	200000
Training and Travel	2500000	2175000	1000000	808002	7500000	7428264	150000	130447
Miscellaneous Expenses*	2750000	2480000	2500000	2167398	2500000	2228654	3500000	3301705
Others, specify	1500000	2530000	1250000	1213525	2750000	2640464	3000000	3265468
Total	672900000	462281000	656500000	592896490	543900000	513086681	557175000	484971733

10.2.1 Adequacy of budget allocation (5)

Institute Marks : 5.00

As the institution is self-financed and sponsored by the society and the institution being already 21 – years old, the complete civil infrastructure is already in place and hence the total tuition fee collected from the students is more than adequate to run the institution including recurring and non-recurring expenditure. The sample template of the same is given below:

ADEQUACY OF BUDGET ALLOCATION FOR THE A.Y.: 2023-24					
	Expenditure	Budgeted	Expenditure incurred (Rs)	Receipts (Rs.)	Receipts incurred(Rs)
To	Infrastructure Built-up			Fee Collection	
To	Library			Government	
To	Laboratory Equipment			Grants	
To	Laboratory Consumables			Others(if any)	
To	Teaching & Non-Teaching Staff Salary				
To	Maintenance and Spares				
To	R&D				
To	Training and Travel				
To	Miscellaneous Expenses				
	Advt. Charges				
	Staff Ratification				
	Student/Staff Welfare				
	Placement				
	Annual Day Expenses, etc.				
To	Others				
	Affiliation Fee				
	Common Services Fee				
	AICTE Fee				
	Electricity Charges				
	Inspection Fee				
	NBA Fee etc...				
	Total				

10.2.2 Utilization of allocated funds (5)

Institute Marks : 5.00

The budget utilized for recurring and non-recurring expenditure under the following heads:

(a) Salaries – Salaries has been disbursed to AICTE norms, (b) The budget has been utilized in procuring the laboratory equipment as per the recommendations of the HOD's based on the curriculum, also for organizing the FDP's and students training programs, (c) Administrative Expenditure – budget has been utilized in meeting day to day expenses in running the institution. The sample template of the same is given below:

UTILIZATION OF ALLOCATED FUNDS FOR THE A.Y.: 2023-24 (Sample Template)						
	Expenditure	Budgeted (Rs)	Expenditure incurred (Rs)	Receipts (Rs.)		Receipts incurred(Rs)
To	Infrastructure Built-up			Fee Collection		
To	Library			Government		
To	Laboratory Equipment			Grants		
To	Laboratory Consumables			Others(if any)		
To	Teaching & Non-Teaching Staff Salary					
To	Maintenance and Spares					
To	R&D					
To	Training and Travel					
To	Miscellaneous Expenses					
	Advt. Charges					
	Staff Ratification					
	Student/Staff Welfare					
	Placement					
	Annual Day Expenses, etc.					
To	Others					
	Affiliation Fee					
	Common Services Fee					
	AICTE Fee					
	Electricity Charges					
	Inspection Fee					
	NBA Fee etc...					
	Total					

10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks : 5.00

The audited statements have already been uploaded on the college website, www.mrcet.ac.in (<http://www.mrcet.ac.in/>)

10.3 Program Specific Budget Allocation, Utilization (30)

Total Marks 30.00

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

Table 1 :: CFY 2023-2024

Total Budget 8900000		Actual expenditure (till...): 8700000		Total No. Of Students 82
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
900000	8000000	825000	7875000	106097.56

Table 2 :: CFYm1 2022-2023

Total Budget 14200000		Actual expenditure (till...): 13530685		Total No. Of Students 106
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1200000	13000000	1116390	12414295	127647.97

Table 3 :: CFYm2 2021-2022

Total Budget 30225000		Actual expenditure (till...): 29783559		Total No. Of Students 251
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
225000	30000000	205806	29577753	118659.60

Table 4 :: CFYm3 2020-2021

Total Budget 50200000		Actual expenditure (till...): 50163655		Total No. Of Students 419
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
200000	50000000	183763	49979892	119722.33

Items	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till
Laboratory equipment	400000	375000	475000	456587	250000	234509	100000	91443

Software	0	0	0	0	0	0	0	0
Laboratory consumable	200000	150000	230000	219574	15000	8050	30000	25268
Maintenance and spares	400000	375000	500000	488254	100000	88506	60000	50948
R & D	75000	52500	75000	73100	10000	7500	25000	18000
Training and Travel	50000	32625	20000	16160	400000	371413	15000	11740
Miscellaneous Expenses*	400000	375000	450000	433480	125000	111433	300000	297153
Total	1525000	1360125	1750000	1687155	900000	821411	530000	494552

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

As the department is self-financed and sponsored by the CMR Educational Society and the department being running from so many years, the complete civil infrastructure is already in place and hence the tuition fee collected from the students is more than adequate to run the department including recurring and non-recurring expenditure. The sample template of the same is given below:

ADEQUACY OF BUDGET ALLOCATION FOR THE A.Y.: 2023-24					
DEPARTMENT OF MECHANICAL ENGINEERING					
	Expenditure	Budgeted	Expenditure incurred (Rs)	Total Budget(Rs.)	Actual Expenditure (Rs)
To	Laboratory Equipment			Non-recurring	
To	Software			Recurring	
To	Laboratory Consumables				
To	Maintenance and Spares				
To	R&D				
To	Training and Travel				
To	Miscellaneous Expenses				
	Advt. Charges				
	Staff Ratification				
	Student/Staff Welfare				
	Placement				
	Annual Day Expenses, etc.				
	Total				

10.3.2 Utilization of allocated funds (20)

Institute Marks : 20.00

The budget utilized for recurring and non-recurring expenditure under the following heads:

(a) Salaries – Salaries has been disbursed to AICTE norms, (b) The budget has been utilized in procuring the laboratory equipment as per the recommendations of the HOD's based on the curriculum, also for organizing the FDP's and students training programs, (c) Administrative Expenditure – budget has been utilized in meeting day to day expenses in running the department. The sample template of the same is given below:

UTILIZATION OF ALLOCATED FUNDS FOR THE A.Y.: 2023-24						
DEPARTMENT OF MECHANICAL ENGINEERING						
	Expenditure	Budgeted (Rs)	Expenditure incurred (Rs)	Total Budget(Rs.)		Actual Expenditure (Rs.)
To	Laboratory Equipment			Non-recurring		
To	Software			Recurring		
To	Laboratory Consumables					
To	Maintenance and Spares					
To	R&D					
To	Training and Travel					
To	Miscellaneous Expenses					
	Advt. Charges					
	Staff Ratification					
	Student/Staff Welfare					
	Placement					
	Annual Day Expenses, etc.,					
	Total					

10.4 Library and Internet (20)

Total Marks 20.00

10.4.1 Quality of learning resources (hard/soft) (10)

Institute Marks : 10.00

Library:

The students and faculty have been utilizing the library re-sources as well as laboratory facilities very effectively as most of the faculty and students stay in the hostels in close proximity of the institution by staying late hours in the campus.

"Quality of learning resources (hard/soft)" refers to the overall standard and suitability of both physical (hard) materials like textbooks and printed documents, and digital (soft) materials like online courses, videos, and software used for learning, considering factors like their relevance, accuracy, accessibility, and engagement potential for students.

Adequate learning resources including e-resources are available in the college digital library. Therefore the students and faculty community are effectively utilizing this resource through internet facility.



The key aspects considered for evaluating the quality of learning resources (hard/soft) are:

. **01.Equal Access to Quality Education:**

The learning objectives and relevant course materials are made available both hard copies (Central Library: www.mrcetlibrary) and soft copies [College Website: www.mrcet.ac.in (<http://www.mrcet.ac.in/>)] to both students and teaching faculty.


MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution - UGC Govt. of India)

 (Permanently Affiliated to JNTUHQ, Approved by AICTE - Accredited by NBA & NAAC- A-GRADE; ISO 9001:2015 Certified)
 Maisammaguda, Dhulapally, Secunderabad - 500 100

Department of Library & Information Centre

S.No	Particulars	Available
01	Total Volumes	76739
02	Total Titles	14904
03	Total Print Journals-National/Magazines	110/20
04	International Journals	12
05	SC/ST Book Bank Books	1788
06	E-Journals (IEEE Xplore Digital Library) (ASPP), J-Gate Engineering & Management Collection.	34895 (E-Journals & Magazines Conference Publications, Standards)
07	E-Books	17556
08	Back Volumes	1124
09	Project Reports	1506
10	Library Space	3020 sq/m
11	Reading Capacity	300
12	Library Software	New Gen Lib(Verus Solutions Pvt.Ltd)
13	No.of CDs (Subjects and General)	372
14	News Papers	07
15	Number of Library Staff	08
16	Number of Library Staff with Degree in Library science	07
17	Working Hours	8.00 AM to 8.00 PM



02. Easy Access to Learning Resources:

The materials are available to all students and Faculty (both teaching and non-teaching).

The materials are user friendly with clear navigation and formatting.

All the classrooms are provided with Digital Boards to increase the level of interactivity, visual appeal, and multimedia elements that can capture students' attention and interest.

The information presented is optimized and up-to-date, factual, and sourced from credible authors authenticated by the Head of the Department.

Textbooks, Workbooks, Hand outs, Printed lecture slides, and Laboratory manuals.

Examples of "soft" learning resources:

Online courses

NPTEL/Educational videos

Digital library databases

Interactive simulations

Learning management systems (LMS)


10.4.2 Internet (10)

Institute Marks : 10.00

Internet:

With the rapid advancement of digital technology, internet facility has become very affordable to all and thus being widely utilized in accessing technology resources available globally

- Name of the Internet provider: **Vainavi Industries Limited**
- Available bandwidth: **1000 MBPS**
- Wi Fi availability: **Yes**
- Internet access in labs, classrooms, library and offices of all Departments: **Yes (Available)**
- Security arrangements: **Sonic Firewall Router**



Tax Invoice

Vainavi Industries Ltd,2017-18
1-B-741, Vainavi Towers,Prakash nagar, Begumpet,
Hyderabad,500016,
GSTIN/UIN:AAACM0041M12M
State name: Telangana Code:36

Buyer,
**Malla Reddy College of Engineering & Technology
Malakampet,
Kompally,Secunderabad,
State: Telangana.Code:36**

Invoice No.VIL/24-25/MA/0350 Dated : 01-MAR-2024

Delivery Note Mode/Terms of Payment
Supplier's Ref. Immediately
Other Reference(s)

Buyer's Order No. Dated
Dispatch Document No. Delivery Note Date
Dispatched through Destination

Terms of Delivery: Invoice Period: 01.03.24 to 28.02.25 (12 Months)

Sl.No.	Description of Goods	HSN/SAC	Quantity	Rate	Per	Amount
1	Bandwidth Charges (1-12) Leased Line	00452135	1000Mbps	1200.00	Mbps	12,00,000.00
				9%		1,08,000.00
				9%		1,08,000.00
TOTAL						14,16,000.00

Amount Chargeable (in words)
Rs. Fourteen Lakh Sixteen thousand only

HSN/SAC	Taxable Value	Central Tax	State Tax	Total Tax Amount
00452132	12,00,000.00	Rate Amount Rate Amount		
		9% 1,08,000.00 9% 1,08,000.00		2,16,000.00
TOTAL	12,00,000.00	1,08,000.00	1,08,000.00	Rs. 2,16,000.00

Tax Amount (in words) : Rs. Two Lakh Sixteen thousand Only.
Company's PAN : AAACM0041M

Declaration:
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

For Vainavi INDUSTRIES Ltd
Authorized Signatory

SUBJECT TO HYDERABAD JURISDICTION

PRINCIPAL
Malla Reddy College of Engineering & Technology
(Autonomous Institution -UGC Govt. of India)
Malakampet, Kompally, Secunderabad-500100, Tel.

This is a Computer generated Invoice

Annexure I
(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)
Program should specify 2-4 program specific outcomes.

PSO1	Ability to analyze, design and develop Mechanical systems to solve the Engineering problems by integrating thermal, design and manufacturing Domains.
PSO2	Ability to succeed in competitive examinations or to pursue higher studies or research.
PSO3	Ability to apply the learned Mechanical Engineering knowledge for the Development of society and self.

Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute

Name : Dr. S. Srinivasa Rao

Designation : Principal

Signature :



Seal of The Institution :



Place : Hyderabad

Date : 17-02-2025 11:38:23