

2. Quality Indicator Framework (QIF)

Criterion I – Curricular Aspects

Metric No.	Key Indicator – 1.1 Curriculum Design and Development
1.1.1 Q ₁ M	<i>Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution.</i> (Write description in maximum of 500 words)

The institute is offering the following programmes in UG namely

- ❖ **Electronics and Communication Engineering**
- ❖ **Computer Science and Engineering**
- ❖ **Information Technology**
- ❖ **Mechanical Engineering**
- ❖ **Aeronautical Engineering**

The institute is also offering the following PG programmes namely

- ❖ **M.Tech in VLSI & Embedded Systems**
- ❖ **M.Tech in Systems & Signal Processing**
- ❖ **M.Tech in Computer Science and Engineering**
- ❖ **M.Tech in Machine Design**
- ❖ **M.Tech in Thermal Engineering**
- ❖ **M.Tech in Aero Space Engineering**
- ❖ **Master of Business Administration**

The institute is also offering Doctoral programme in the following specialization

The Programme Educational Objectives (PEOs), Program Specific Outcomes (PSOs), Program Outcomes (POs) and Course Outcomes (COs) defined for each programme have developed and implemented the curriculum which had relevance to the local, national, regional and global developmental needs.

The courses which have local, national, regional and global development needs are introduced in the curriculum for all the programmes offered in the college as mandatory courses right from the I Year I Semester till III Year II Semester.

The titles of the courses are:

Title of the Course: Professional English

Objective of the Course: The course will enrich the students to express themselves appropriately and fluently in professional contexts. It will enhance their employability through regular participation in group discussions and interview skills. It lays foundation with writing strategies for the future workplace needs. The students will acquaint with different components of professional presentation skills.

Title of the Course: Environmental Science

Objective of the Course: Environmental Science is all about learning the way we should live and how we can develop sustainable strategies to protect the **environment**. It helps individuals to develop an understanding of living and physical **environment** and how to

resolve challenging **environmental** issues affecting nature.

Title of the Course: Human Values and Societal Perspectives

Objective of the Course: Human values are most important in life—so important that people are and should be ready to sacrifice almost anything to live with their values. **Honesty**, integrity, love, and happiness are some of the end values or destination values that human beings seek to attain, practice and live with.

Title of the Course: Gender Sensitization

Objective of the Course: Gender Sensitization is a basic requirement to understand the sensitive needs of a particular **gender**. It helps us to examine our personal attitudes and beliefs and question the 'realities' that we thought we know. ... Educational spaces instil thought and make one have a perception that they believe.

Title of the Course: Foreign Languages

Objective of the Course: Communicate effectively in a **foreign language** and interact in a culturally appropriate manner with native speakers of that **language**. Achieve functional proficiency in listening, speaking, reading, and writing. Recognize culture-specific perspectives and values embedded in **language** behavior.

Title of the Course: Technical Communication and Soft Skills

Objective of the Course: Humans are built for connection. ... Learning how to **communicate** effectively is not only a way to sharpen individual **soft skills**; it will also positively influence individual career, relationships, and problem-solving abilities.

Soft skills are personal attributes that influence how well you can work or interact with others. These **skills** make it easier to form relationships with people, create trust and dependability, and lead teams

1.1.2 Q_nM	<i>Number of Programmes where syllabus revision was carried out during the year:</i> Data Requirement: <ul style="list-style-type: none">• Programme Code• Names of the Programmes revised
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Name of all Programmes where syllabus revision was carried out
Computer Science and Engineering
Information Technology
Electronics and Communication Engineering
Mechanical Engineering
Aeronautical Engineering
Master of Business Administration
All M.Tech Programmes

<p>1.1.3</p> <p>Q_nM</p>	<p><i>Number of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the year:</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Name of the Course with Code • Activities with direct bearing on Employability/ Entrepreneurship/ Skill development • Name of the Programme
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S.No	Name of the Course with Code	Activities with direct bearing on Employability / Entrepreneurship /Skill development	Name of the Programme	Date and Duration
1	VLSI Design A60432	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on Embedded Linux on Zynq -7000 SOC using Vivado	9/25/2015, 1 Day
2	Embedded Systems Design A70440	Guest Lecture For Employability / Entrepreneurship /Skill Development	Guest lecture on Embedded system and Real world Applications	9 March 2016, 1 Day
3	Computer Programming A10501	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on Android App Development for III Year Students	15-17 October 2015, 3 Days
4	Web Technologies, A60512	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on Web designing for II Year students	12-14 October 2015, 3 Days
5	Major Project Work A80088	Paper Presentations For Employability / Entrepreneurship /Skill Development	Electrosurge 2K16	1-2 April 2016, 2 Days
6	Major Project Work A80088	Industrial Visit For Employability / Entrepreneurship /Skill Development	Industrial visit to National Remote Sensing Centre	6-Apr-16

7	Linear and Digital IC Applications ,A50425	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on “Analog & Digital CMOS IC Design flow using Mentor Graphics EDA Tools”	9-10 June 2016, 2 Days
8	Software Testing Methodologies A60525	Workshop For Employability / Entrepreneurship /Skill Development	Casper Studio Workshop on Gaming	28-29 September 2015, 2 Days
9	Scripting Languages A80537	Workshop For Employability / Entrepreneurship /Skill Development	Android App development	3-5 October 20, 3 Days
10	Web Technologies, A60512	Workshop For Employability / Entrepreneurship /Skill Development	Website Designing and Development	8-10 October 2015, 3days
11	Cloud Computing, A70519	Workshop For Employability / Entrepreneurship /Skill Development	TASK-IBM Bluemix workshop on Cloud Computing	27th Nov 2015,1 Day
12	Java Programming, A40503	Training Program For Employability / Entrepreneurship /Skill Development	Microsoft Training associate – Certification on Java and Dot net	5-10 Jan, 2016, 6 Days
13	Computer Programming A10501	Workshop For Employability / Entrepreneurship /Skill Development	workshop on C programming skills	18-19 March,2016, 2 Days
14	Industry Oriented Mini Project A80087	Industrial Visit For Employability / Entrepreneurship /Skill Development	Industrial Visit Infosys, Hyderabad	1/10/2015, 1 Day
15	Robotics, A70355	Workshop For Employability / Entrepreneurship /Skill Development	One Day Workshop on 3D Printing	6/10/2016, 1 Day

16	Project Work A80088	Paper Presentations For Employability / Entrepreneurship /Skill Development	YANTROSTAV-2k16	1-2 April 2016, 2 Days
17	CAD/CAM,A70328	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on Advanced AUTOCAD	23-29 Aug 2015,6 Days
18		Workshop For Employability / Entrepreneurship /Skill Development	Workshop on Fusion 360	1/9/2016, 1 Day
19	CAD/CAM,A70328	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on Advanced AUTOCAD	14-21 Sept 2015, 6 Days
20	Renewable Energy Sources,A80324	Guest Lecture For Employability / Entrepreneurship /Skill Development	Guest Lecture on Prodcut Life Cycle Management	14 Sept 2015, 1 Day
21	Industry Oriented Mini Project A80087	Paper Presentations For Employability / Entrepreneurship /Skill Development	INGENIUM-2k15	15 Sept 2015, 1 Day
22	Robotics, A70355	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on 3D Printing	18 Aug 2015, 1 Day
23	Project Work A80088	Paper Presentations For Employability / Entrepreneurship /Skill Development	DISHA-2k15	7/31/2015, 1 Day
24	Automobile Engineering A62405	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on Automotive Systems	3/19/2016, 1 Day

25	Web Services, A80551	Workshop For Employability / Entrepreneurship /Skill Development	Casper Studio Workshop on Gaming	28-29 September 2015, 2 Days
26	Scripting Languages A80537	Workshop For Employability / Entrepreneurship /Skill Development	Android App development	3-5 October 20, 3 Days
27	Web Technologies A60512	Workshop For Employability / Entrepreneurship /Skill Development	Website Designing and Development	8-10 October 2015, 3days
28	Cloud Computing, A70519	Workshop For Employability / Entrepreneurship /Skill Development	TASK-IBM Bluemix workshop on Cloud Computing	27th Nov 2015, 1 Day
29	Java Programming, A40503	Training For Employability / Entrepreneurship /Skill Development	Microsoft Training associate – Certification on Java and Dot net	5-10 Jan, 2016, 6 Days
30	Computer Programming A10501	Workshop For Employability / Entrepreneurship /Skill Development	workshop on C programming skills	18-19 March, 2016, 2 Days
31	Industry Oriented Mini Project A80087	Industrial Visit For Employability / Entrepreneurship /Skill Development	Industrial Visit Infosys, Hyderabad	1/10/2015, 1 Day
32	Aero dynamics 1 A42102	Workshop For Employability / Entrepreneurship /Skill Development	Aeromodelling Workshop	3- 4 Sept 2015, 2 Days
33	CAD/CAM, A70328	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on 3D Printing	4-5 March 2016, 2 Days
34	Launch vehicle and Missile Technology A82132	Seminar For Employability / Entrepreneurship /Skill	Seminar on Rocket Trajectories And Design Calculations	2/4/2015, 1 Day

		Development		
35	Mechanisms And Mechanical design A72123	Seminar For Employability / Entrepreneurship /Skill Development	Seminar on Geometric Dimensioning And Tolerances	8/19/2015, 1 Day
36	Major Project Work A80088	Paper Presentations For Employability / Entrepreneurship /Skill Development	Conference on ICEMS	18-19Dec 2015, 2 Days
37	Computational Aero dynamics A62114	Workshop For Employability / Entrepreneurship /Skill Development	Computational Fluid Dynamics And Its Application To Aerospace	21-27 August 2015, 6 Days
38	Major Project Work A80088	Paper Presentations For Employability / Entrepreneurship /Skill Development	Techfest for students on Aerodyne	01-02 April 2016, 2 Days
39	Management Information Systems R15MBA18	Skill Development Program For Employability / Entrepreneurship /Skill Development	Workshop on “Interview Process”	21 Nov, 2015, 1 Day
40	Marketing Management , R15MBA15	Guest Lecture For Employability / Entrepreneurship /Skill Development	Workshop on “Overview Of Marketing”	7 Nov, 2015, 1 Day
41	Human Values & Professional Ethics R15MBA22	Workshop For Employability / Entrepreneurship /Skill Development	Workshop on “Career Opportunities”	31 October, 2015, 1Day
42	Human Values & Professional Ethics R15MBA22	Workshop for Employability / Entrepreneurship /Skill development	Workshop on “Student Counseling”	9 October, 2015, 1Day

43	Business Environment , R15MBA09	Guest lecture for Employability / Entrepreneurship /Skill development	Workshop on “Importance of Business Communication”	3 August, 2015, 1Day
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Metric No.	Key Indicator – 1.2 Academic Flexibility
1.2.1	<i>Number of new courses introduced of the total number of courses across all programs offered during the year</i>
QnM	Data Requirement: <ul style="list-style-type: none"> • Name of the new course introduced • Name of the Program

Name of the new course introduced	Name of the Program
Launch Vehicle and Missile Technology	Aeronautical Engineering
Flight Scheduling and Operations	Aeronautical Engineering
Intellectual Property Rights	Aeronautical Engineering
Intellectual Property Rights	Electronics and Communication Engineering
Satellite Communications	Electronics and Communication Engineering
Telecommunication Switching Systems and Networks	Electronics and Communication Engineering
Human Values and Professional Ethics	Electronics and Communication Engineering
Intellectual Property Rights	Computer Science Engineering
Computer Graphics	Computer Science Engineering
Embedded Systems	Computer Science Engineering
Human Values and Professional Ethics	Electronics and Communication Engineering
Intellectual Property Rights	Mechanical Engineering
Robotics	Mechanical Engineering
Renewable Energy Sources	Mechanical Engineering
Human Values and Professional Ethics	Mechanical Engineering
Launch Vehicle and Missile Technology	Aeronautical Engineering
Flight Scheduling and Operations	Aeronautical Engineering
Human Values and Professional Ethics	Aeronautical Engineering
Intellectual Property Rights	Information Technology
Human Values and Professional Ethics	Information Technology
Embedded Systems	Information Technology
Business Law and Regulation	Master of Business Administration
Business Ethics and Corporate Governance	Master of Business Administration

1.2.2 Q _n M	<p><i>Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Names of all Programmes adopting CBCS • Names of all Programmes adopting elective course system
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Name of all Programmes adopting CBCS in I Year
Computer Science and Engineering
Information Technology
Electronics and Communication Engineering
Mechanical Engineering
Aeronautical Engineering
Master of Business Administration
All M.Tech Programmes

Name of all Programmes adopting elective course system in I Year
Computer Science and Engineering
Information Technology
Electronics and Communication Engineering
Mechanical Engineering
Aeronautical Engineering
Master of Business Administration
All M.Tech Programmes

Metric No.	Key Indicator – 1.3 Curriculum Enrichment
1.3.1 Q _i M	<p><i>Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, Human Values into the Curriculum</i></p> <p>Write description in maximum of 500 words</p>

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Soft skills are personal attributes that influence how well you can work or interact with others. These **skills** make it easier to form relationships with people, create trust and dependability, and lead teams.

1.3.2 Q_nM	<p><i>Number of value-added courses for imparting transferable and life skills offered during year</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Names of the value-added courses with 30 or more contact hours • No. of times offered during the year • Total no. of students completing the course in the year
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Names of the value-added courses with 30 or more contact hours	No. of times offered during the year	Total no. of students completing the course in the year
Human Values and Societal Perspectives	One Time	720
Human Values and Professional Ethics	One Time	750
Environmental Studies	One Time	750
Advanced Communication Skills	One Time	750

1.3.3 Q_nM	<p><i>Number of students enrolled in the courses under 1.3.2 above:</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Names of the value added courses (beyond the curriculum) with 30 or more contact hours • No. of times offered during the year • Total no. of students completing the course in the year • List of students enrolled
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List of the students enrolled is enclosed in Annexure IA

1.3.4 Q _n M	<p><i>Number of students undertaking field projects/ internships / student projects:</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Names of the Programme • No. of students undertaking field projects / internships / student projects
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Names of the Programme	No. of students undertaking			
	Field Projects	Internships	Major Projects	Total
UG				
ECE	08	06	180	194
CSE	--	07	236	243
IT	--	04	49	53
MECH	12	05	119	136
ANE	08	02	105	115
PG				
M.Tech-CSE	--	03	27	30
M.Tech-SSP	01	02	15	18
M.Tech-VLSI & ES	-	02	22	24
M.Tech-MD	01	01	22	24
M.Tech-TE	02	02	20	24
M.Tech-ASE	01	02	29	32
MBA	142	12	86	240

Metric No.	Key Indicator – 1.4 Feedback System
1.4.1 Q _n M	<p><i>Structured feedback for design and review of syllabus (semester wise / year wise) is obtained from 1) Students, 2) Teachers, 3) Employers, 4) Alumni</i></p> <p><i>Options:</i></p> <p style="margin-left: 40px;"> <i>A. All 4 of the above</i> <i>B. Any 3 of the above</i> <i>C. Any 2 of the above</i> <i>D. Any 1 of the above</i> <i>E. None of the above</i> </p> <p style="text-align: right; margin-right: 40px;">Opt One</p>

A: All 4 of the above

1.4.2 Q _n M	<p><i>The feedback system of the Institution comprises of the following :</i></p> <p style="margin-left: 20px;"> <i>A. Feedback collected, analysed and action taken and report made available on website</i> <i>B. Feedback collected, analysed and action taken</i> <i>C. Feedback collected and analysed</i> <i>D. Feedback collected</i> <i>E. Feedback not obtained</i> </p>
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B: Feedback Collected, analyzed and action take