



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

VALUE ADDED COURSE

PROBLEM SOLVING SKILLS

JULY 08TH – JULY 12TH 2019



2019-20

Purpose:

Our college facilitates the students to keep pace with the latest technologies pertaining to their chosen field of studies. We have offered plenty of value added programmes where in the students are getting trained well. The students have the option to choose the courses according to their desires and inclinations as they choose the desired items in cafeteria. From the expertise our students gain knowledge through the value added programmes, which will enable them to face the formidable challenges of the future. Many students have been benefited every year. Our main aim is to provide training and guidance to the students on the various aspects of building a career and to assist them in exploring new opportunities.

The Main Topics to be covered:

- Basics, Variable Declaration, Definition and Scope, Data Types, Storage Classes, Input/output, Operators, Preprocessor, Control Structures
- Loops
- Functions and Preprocessors
- Arrays
- Pointers
- Structures and Unions
- Sorting

Certification: Course certificate will be provided for the deserving candidates with 80% attendance and who clears the test with minimum marks.

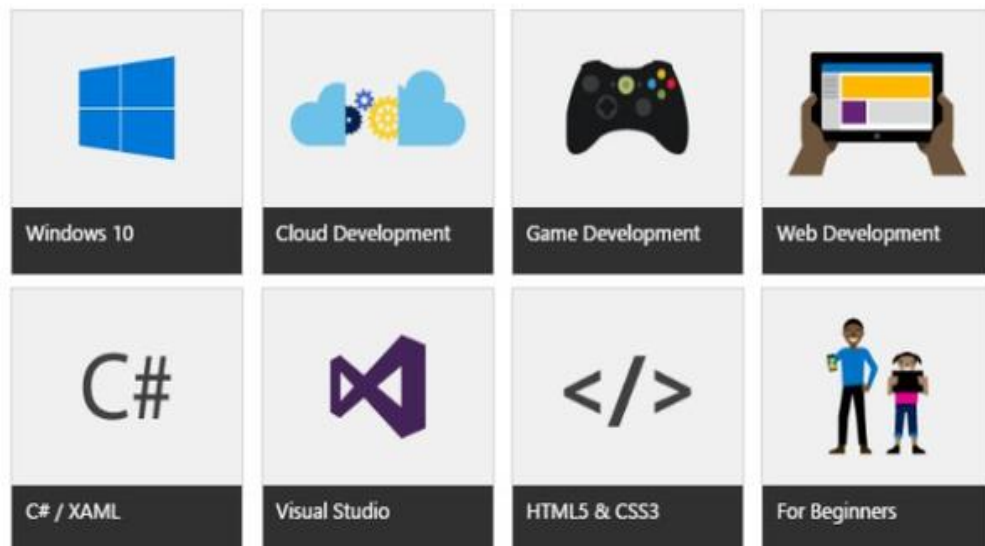


Malla Reddy College of Engineering & Technology

(Autonomous Institution – UGC, Govt. of India)

MICROSOFT CERTIFICATION ON MACHINE LEARNING USING PYTHON

JANUARY 28th -02nd
FEBRUARY 2019



VALUE ADDED COURSE

PROGRAMME DURATION:6
Days

ORGANISED BY

MALLA REDDY COLLEGE OF
ENGINEERING &
TECHNOLOGY

Introduction of python

Basics

Syntax of the program,

Example Programs.

Data types,

Arrays and Operators

Hands on Session

Database

Introduction to

Machine Learning

&

Data Processing

Regression Models like

Polynomial Regression



Malla Reddy College of Engineering & Technology

Autonomous Institution - UGC, Govt. of India

ONLINE SKILL DEVELOPMENT PROGRAMME

The main objective of online skill development programmes are to set up a workforce that is proficient with the necessary skills and knowledge. Skilled employees yield higher productivity and have the ability to work effectively and efficiently. In this context, the institute has taken initiatives to provide skill development programmes and has provided the required platform like Reference Globe, CoCubes, Times and Coursera Certification. To Practice this All the students and faculty are provided the necessary logins for practice and conducting online exams in all related online platforms. Practice Tests and Talent Tests are conducted periodically for better assessment of the students. Using Coursera students can acquire Course Completion Certificates from World Top Universities. Almost 600+ placements have been achieved. Using Coursera Platform, almost 20000+ certifications have been completed by the students. Successful completion of certification programmes from world famous universities and grabbing placement opportunities in top MNC companies.

MRCET is Always the Leader
"At Forefront in Technology"

coursera **TCSION** **Microsoft Teams**

VIRTUAL CLASSES

- Coursera and TCSion Online Courses
- Offering more than 4200 Courses & Certifications
- Exclusive dash-board for MRCET
- Excellence in Virtual Teaching
- Comprehensive Content Delivery
- High Quality Skill Development
- A Gateway for Professional Learning Environment

FREE ONLINE COURSES
FOR MRCET STUDENTS



Malla Reddy College of Engineering & Technology

Autonomous Institution - UGC, Govt. of India

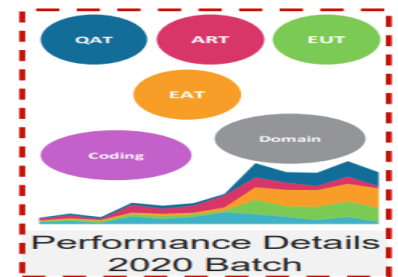


CONTINUOUS EVALUATION PROGRAM

Continuous Evaluation Program is a form of educational examination that evaluates a student's progress throughout a prescribed course. This approach allows the tracking of progress and has a chance of offering students more support, guidance, and opportunities to improve during the course or program.



Malla Reddy College of Engineering and Technology

Continuous Evaluation Program: 2020 Batch





Malla Reddy College of Engineering & Technology

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CAMPUS RECRUITMENT TRAINING PROGRAMME

A Four day CRT classes was held from 8th to 12th July 2019 at MRCET in Seminar Hall which was conducted by T.I.M.E academy. Nearly 1000 students of third years attended these classes. The intention of this training program was to improve the communication skills and soft skills of the students. Also there were enough trained in the logical ability and vocabulary.



The topics covered in the CRT training program:

Verbal ability(Tenses)

Verbal ability (Nouns, Pronouns & Articles)

Verbal ability (Conjunctions,
Prepositions, Adverbs) Reading
comprehension, Basic
communication skills.



MALLAREDDY COLLEGE OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Department of ECE has organized a training program on Professional Skill Development in association with Focus Academy for Career Enhancement (FACE), Hyderabad from 6th to 9th sep 2017,4 Days

Objective of the Training Program: To keep up the professional career development among student community this plays a vital role in the development of personal career of a student.





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, Dhulapally, Komapilly, Secunderabad – 500100, Telangana State

Date: 3- 09- 19

DEPARTMENT OF HUMANITIES AND SCIENCES

FOUR DAYS VALUE ADDED COURSE ON ENVIRONMENTAL AWARENESS

Department of H & S has organized an Value Added Course- Environmental Awareness community development program for I Year B.Tech Students.

Objective of the Training Program:

The Environmental awareness workshop allows participants to share and learn about global and local issues

Environmental Science: Awareness in the field of environmental sciences is becoming a global talk. People worldwide are realizing its importance as they are able to smell a Polluted tomorrow. Careful handling of today's environment would only serve as a legacy for tomorrow's generation. Hence, we need to be judicious in exploiting our resources optimally.

The main focus of this training is to learn about different aspects of environmental and sustainability issues through a selection of workshops, discussions and visits. Topics may include issues like renewable energy, food waste, and sustainable practices such as collaborative consumption or veganism

The Training Program was inaugurated by the Principal, Dr VSK Reddy, along with DEAN Academics Dr. M Madhusudhan Reddy , HOD of H & S ,around 10.00 am in the MRCET Seminar Hall. More than 800 students have attended the training program.

ENVIRONMENTAL AWARENESS



The schedule of the training program is given below:

DATE	9.30AM TO 11.30AM		11.30 AM TO 12.30 PM		1.30 PM TO 3.30PM
03-09-2019	Environmental Science : Definition, Scope and Importance	B R E A K	Environmental Science: Natural Resource	L U N C H	Environmental Science: Ecosystem
04-09-2019	Environmental Science: Biodiversity and Conservation		Environmental Science: Pollution and its Factors		Environmental Science: Social Issues
05-09-2019	Environmental Science: Climate/Environment		Environmental Science: Population Dynamics & Population Ecology/ Water Sampling		The Industrial Food System, and its Impact and Influence on Nutrition, Economics, Politics, and the Environment.
06-09-2019	Environmental Science: Greenhouse		Environmental Science: Living vs. non living and life cycles		Environmental Science: Wind energy and renewable energy.

REGISTRATION FORM

**FOUR DAY WORKSHOP
ON
SOFT SKILL TRAINING**

2nd to 5th March, 2020

Name:

Designation:

Branch:

Institution:

Mobile:

E mail:

Date: Signature

CHIEF PATRON

Sri Ch Mall Reddy, Chairman, MRGI

PATRONS

Sri Ch Mahender Reddy
Sri Ch Bhadra Reddy

CONVENER

Dr VSK Reddy, Principal, MRCET

CO-CONVENER

Dr M Murali Krishna, Dean Academics, MRCET

PROGRAM CHAIR

Prof P Sanjeeva Reddy, Director, ECE

ORGANIZING SECRETARY:

Dr S Srinivasa Rao, HOD, ECE

COORDINATORS

Dr B Jyothi, Professor, ECE
Dr V M Senthil Kumar, Professor

ORGANIZING COMMITTEE

Dr C Ravi Shankar Reddy, Professor
Dr Sucharitha Manikanta, Professor
Dr. K. Munirathnam achari
Dr. V. Madhusudhana reddy
Dr. Nirupma singh
Dr. E. Ramanjeya reddy and other Faculty members
of MRCET & TIME



**VALUE ADDED COURSE
FOUR DAY WORK SHOP
ON
SOFT SKILLS TRAINING**

2nd to 5th MARCH 2020

Organized By

Department of Electronics & Communication
Engineering

**MALLA REDDY COLLEGE OF
ENGINEERING & TECHNOLOGY**

Autonomous Institution-UGC, Govt.of India
Maisammaguda, Dhulapally, Secunderabad-500100
www.mrcet.com

In Association with

T.I.M.E



MRGI at a Glance:

Situated away from raucous sounds of Hyderabad city, MRGI epitomizes technocracy at its best. Being one of the largest campuses in Telangana, MRGI promises eventful student-oriented learning. The founder chairman Sri.Ch. Malla Reddy garu began the journey as an educationalist to form the bridge between society, industry and academics. He is an unassuming dynamic leader with a keen interest in changing trends of higher education and student's employability in India. The diverse and enormous growth of the group unravels his realistic vision to cater to the needs of students in all areas of education. Education at MRGI brings all round and holistic development in students.

About MRCET:

An UGC-Autonomous Institution, accredited by NBA, AICTE, New Delhi and NAAC accredited with A grade. Ranked 7th among Top Engineering Colleges of Excellence in Telengana by Competition Success Review (CSR) Ranked AAA among top Engineering Colleges in India by Careers360 (Outlook Group-2017). Recognized as a Nodal Centre for conducting FDP Program by IIT – Bombay & IIT-Kharagpur. The College offers Engineering courses (B.Tech.) in ECE, EEE, CSE, ANE, MECH and IT disciplines and Post Graduate (M.Tech.) courses in VLSI & ES, SSP, CSE, Thermal Engineering, Machine Drawing and Aero Space Engineering specializations in addition to MBA programmes. The Institution has been recognized by SIRO, DSIR, Govt. of India for its R&D activities. The Institution has been sanctioned Business Incubation Centre by MSME, Govt. of India. The College campus with its arboriculture and horticulture is situated away from the hustle and bustle of the city provides a serene and tranquil atmosphere, which is conducive to both teaching and learning processes

Department Of ECE-MRCET:

The Department established in the year 2004, is very strong with experienced and qualified teaching faculty having Eight Doctorates who are expertized in various ECE domains. Department has good infrastructure, A/C Seminar Halls and state-of-art laboratories. Department is actively involved in various R&D activities sponsored by UGC, MSME, AICTE, DST etc. The department has IEEE Student chapter and IETE Student Chapter under which various technical events will be organized periodically. The department has been accredited by NBA, AICTE, New Delhi. Recognized as R & D Centre by JNTUH, Hyderabad for Full time Ph.D Research Scholars admissions.

About T.I.M.E: Triumphant Institute of Management Education Pvt. Ltd. (T.I.M.E.) is India's leading test-prep institute with a pan-India presence and is headquartered in Hyderabad. Established in 1992, T.I.M.E. today operates out of 237 offices located in 118 towns and cities across the country. Over 40 IIT/IIM graduates form part of the core team at T.I.M.E. started in a small room of 120 square feet on 26th May,1992 in Hyderabad with one center, T.I.M.E. has just completed 27 years of service to the student community – helping to build a few hundred thousand careers along the way. From one office to 237 offices has been a long and satisfying journey for T.I.M.E.'s promoters who had chucked their high flying corporate jobs to pursue their dream and passion

Soft Skills Training : To meet the growing demands of corporate and groom into a complete human being, the institute is striving hard to develop the skills of students by giving them placement training T.I.M.E. is today acknowledged as a multi-location, multi-programme training specialist run on corporate lines and offers a wide range of programmes not only for national and state-level entrance exams like the CAT, MAT, JEE MAIN, and JEE ADVANCED but also for international exams like GMAT, GRE, IELTS and TOEFL.

SCHEDULE**Day 1:****Introduction to soft skills and Communications****Day 2:****Self Motivation, Responsibility and Decisiveness****Day 3:****Team work, Time Management and Problem Solving****Resource Persons:****Dr VSK Reddy, Principal, MRCET****Dr S Srinivasa Rao, Professor & Head, ECE, MRCET**

Dr Sucharitha Manikanta, Professor

Dr. K. Munirathnam achari

Dr. Nirupma singh

Dr.E. Ramanjeya reddy and other Faculty members of

TIME

MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY

B. TECH- I- YEAR- I- SEM -ANE

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(R18A0003) HUMAN VALUES AND SOCIETAL PERSPECTIVE (Mandatory Course)

INTRODUCTION:

Human values are the virtues that guide us to take into account human element when one interacts with other human beings. It's both what we expect others to do for us and what we aim to give to other human beings. These human values give the effect of bonding, comforting and reassuring.

OBJECTIVES:

This introductory course input is intended:

1. to help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
2. to facilitate the development of a holistic perspective among students towards life, profession and happiness, based on a correct understanding of the Human reality and the rest of Existence. Such a holistic perspective forms the basis of value based living in a natural way.
3. to highlight plausible implications of such a holistic understanding in terms of ethical human conduct, trustful and mutually satisfying human behavior and mutually enriching interaction with Nature.

UNIT - I:

Course Introduction - Need, Basic Guidelines, Content and Process for Value Education: Understanding the need, basic guidelines, content and process for Value Education.

Self Exploration - what is it? - its content and process; 'Natural Acceptance'

and Experiential Validation - as the mechanism for self exploration. Continuous

Happiness and Prosperity

A look at basic Human Aspirations- Right understanding, Relationship and Physical Facilities - the basic requirements for fulfillment of aspirations of every human being with their correct priority.

Understanding Happiness and Prosperity correctly - A critical appraisal of the current scenario.

Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

UNIT - II:

Understanding Harmony in the Human Being - Harmony in Myself! : Understanding human being as a co-existence of the sentient 'I' and the material 'Body'.

Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer).

Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail. Programs to ensure Sanyam and Swasthya.

UNIT - III:

Understanding Harmony in the Family and Society - Harmony in Human - Human Relationship:

Understanding harmony in the Family the basic unit of human interaction. Understanding values in human - human relationship; meaning of Nyaya and program for its fulfillment to ensure Ubhay-tripti; Trust (Vishwas) and Respect (Samman) as the foundational values of relationship. Understanding the meaning of Vishwas; Difference between intention and competence. Understanding the meaning of Samman, Difference between respect and differentiation; the other salient values in relationship.

Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astiva as comprehensive Human Goals. Visualizing a universal harmonious order in society - Undivided Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha) - from family to world family!

UNIT - IV:

Understanding Harmony in the nature and Existence - Whole existence as Coexistence: Understanding the harmony in the Nature. Interconnectedness and mutual fulfillment among the four orders of nature - recyclability and self-regulation in nature.

Understanding Existence as Co-existence (Sah-astitva) of mutually interacting units in all-pervasive space. Holistic perception of harmony at all levels of existence.

UNIT - V:

Implications of the above Holistic Understanding of Harmony on Professional Ethics: Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basic for Humanistic Education, Humanistic Constitution and Humanistic Universal Order. Competence in professional ethics:

- a. Ability to utilize the professional competence for augmenting universal human order.
- b. Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems.
- c. Ability to identify and develop appropriate technologies and management patterns for above production systems.

TEXT BOOKS:

1. R. R. Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.
2. Prof. K. V. Subba Raju, 2013, Success Secrets for Engineering Students, Smart Student Publications, 3rd Edition.

REFERENCE BOOKS:

1. Ivan Illich, 1974, Energy & Equity, The Trinity Press, Worcester, and HarperCollins, USA
2. E. F. Schumancher, 1973, Small is Beautiful: a study of economics as if people mattered. Blond & Briggs, Britain.
3. A Nagaraj, 1998 Jeevan Vidya ek Parichay, Divya Path Sansthan, Amarkantak.
4. Sussan George, 1976, How the Other Half Dies, Penguin Press, Reprinted 1986, 1991.
5. P. L. Dhar, R. R. Gaur, 1990, Science and Humanism, Commonwealth Publishers.
6. A. N. Tripathy, 2003, Human Values, New Age International Publishers.
7. Subhas Palekar, 2000, How to practice Natural Farming, Pracheen(Vaidik) Krishi Tantra

Shodh, Amravati.

8. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, Limits to Growth - Club of Rome's report, Universe Books.
9. E G Seebauer & Robert L. Berry, 2000, Fundamentals of Ethics for Scientists & Engineers, Oxford University Press.
10. M Govindrajan, S Natrajan & V. S Senthil kumar, Engineering Ethics (including Humna Values), Eastern Economy Edition, Prentice Hall of India Ltd.

Relevant CDs, Movies, Documentaries & Other Literature:

1. Value Education website, <http://www.uptu.ac.in>
2. Story of Stuff, <http://www.storyofstuff.com>
3. Al Gore, An Inconvenient Truth, Paramount Classics, USA
4. Charle Chaplin, Modern Times, United Artists, USA
5. IIT Delhi, Modern Technology - the Untold Story

OUTCOMES:

1. The students will be able to obtain happiness and prosperity in their life.
2. They will develop harmony at all levels.
3. They can have satisfying human behavior throughout their life.

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

II Year B. Tech, ANE-II Sem	L	T/P/D	C
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(R18A0004) FOREIGN LANGUAGE:FRENCH (Mandatory Course)

INTRODUCTION

In view of the growing importance of foreign languages as a communication tool in some countries of the world, French has been identified as one of the most popular languages after English. As a result, French program is introduced to develop the linguistic and communicative skills of engineering students and to familiarize them to the French communication skills. This course focuses on basic oral skills.

OBJECTIVES

1. To inculcate the basic knowledge of the French language.
2. To hone the basic sentence constructions in day to day expressions for communication in their vocation.
3. To culminate their major with evidence of a purposeful education.

UNIT - I:

Speaking: Introduction to the French language and culture – Salutations - French alphabet - Introducing people

Writing: Understand and fill out a form

Grammar: The verbs "to be" and "to have" in the present tense of the indicative

Vocabulary: The numbers from 1 to 20 - Professions – Nationalities

UNIT - II:

Speaking: Talk about one's family – description of a person - express his admirations and preferences - express possession - express negation

Writing: Write and understand a short message

Grammar: Nouns (gender and number) - Articles - The -er verbs in the present - Possessive adjectives Qualifying adjectives

Vocabulary: The family – Clothes - Colors - The numbers from 1 to 100 - The classroom

UNIT - III

Speaking: Talk about your daily activities - be in time - ask and indicate the date and time - talk about sports and recreation - express the frequency

Writing: A letter to a friend

Grammar: The expression of time – The –ir verbs in the present - The verbs do, go, take, come,
- Adverbs - Reflexive verbs

Vocabulary: The days and months of the year - The sports – Hobbies

UNIT - IV

Speaking: Express the quantity - ask and give the price - express the need, the will and the capacity - compare (adjective) - speak at the restaurant / in the shops

Writing: A dialogue between a vendor and a customer at the market

Grammar: Verbs “to want”, “to can” - Express capacity / possibility - Express will / desire – the future tense

Vocabulary: The food – Meals - Fruits and vegetables – The parts of the body

UNIT - V

Speaking: Express the prohibition and the obligation - describe an apartment - talk about the weather / ask the weather - ask the opinion - give your opinion - express your agreement or disagreement

Writing: Descriptions

Grammar: Demonstrative adjectives -Prepositions - The verb 'must' to indicate obligation and necessity in the present

Vocabulary: Seasons – Holidays - The city – Furniture

NOTE: The students are exposed to simple listening and reading activities.

REFERENCE BOOKS

1. Apprenons le Français 1& 2, New Saraswati House, 2015
2. A propos, A1, Langers International, 2010
3. [Easy French Step-by-step](#) by Myrna Bell Rochester
4. Ultimate French Beginner-Intermediate (Coursebook) By Livid Language
5. *À L'Aventure: An Introduction to French Language and Francophone Cultures* by [Evelyne Charvier-Berman](#), [Anne C. Cummings](#).

OUTCOMES

1. The students will be able to communicate in French at A1 level.
2. The student will have an advantage in the competitive job market.
3. This course benefits the graduates when pursuing study *opportunities* in the countries where French is the official language.

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

II Year B. Tech, ANE-I Sem

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(R18A0005)FOREIGN LANGUAGES: GERMAN (Mandatory Course)

INTRODUCTION

This is the age of globalization. Faster communication, extensive travel, greater interaction, outsourcing of jobs, demand of skilled person had made the engineering graduates to learn GERMAN language. Nowadays Aircraft and mechanical domain require more and more graduates with minimum knowledge to speak in German language

German language has been one of the fastest learning language in the world. This course is customized according to the demand of the requirement in job industries.

OBJECTIVES:

1. To equip with the vocabulary to create new sentences, sentence pattern, correct pronunciation.
2. To make the students an efficient German language speaker.
3. To focus on basic linguistic and communicative structures of the German language.

SYLLABUS

UNIT 1 : Basics of Deutsch

Introduction – (About German Country, Language & Culture)
Formal And Informal Greetings
Alphabet
Numbers (0-50)
Days Of The Week And Months Of The Year
Vocabulary, Exercises and Assignments

UNIT 2 : Getting closer with Deutsch

Family
Seasons & Weather
Time & Directions, Days Of Week, Months
Colours & Shapes, Numbers (51 – 100)
Subject Pronouns
Vocabulary, Exercises and Assignments

Unit 3 : Construction of Simple Sentences

Formal Introduction

Asking Questions

Responding to the

Questions Simple

Sentences

Articles, Numbers (101 And Above)

Vocabulary, Exercises and Assignments

Unit 4 : Dialogue Writing

Introduce Oneself

Introduce Others

At the Restaurant

At the Railway Station

At the University

Vocabulary, Exercises and Assignments

REFERENCE BOOKS

6. Collins easy learning GERMAN dictionary
7. Hallo deutsch – Parul sharma
8. Studio D A1 – Hermann
9. So geht das – New Saraswati book house
10. Practice German language for beginners – Dominic
11. German Made easy – Diego Agundez

OUTCOMES

Student will be able to:

1. stand ahead of getting the opportunity in the Job market by learning German language.
2. learn German language with engineering degree that will give them a sense of identity among the competitive global engineering industry.
3. learn German language on a regular basis that will help them in improving multi-lingual ability.

(R18A0007) INDIAN CONSTITUTION

Introduction

The Indian judiciary and particularly the Supreme Court of India has played an historic role as the guardian of people. It has been protecting not only basic ideals of the Constitution but also strengthened the same through progressive interpretations of the text of the Constitution. The judicial activism of the Supreme Court of India and its historic contributions has been recognized throughout the world and it gradually made it “as one of the strongest court in the world”.

This course “Indian Constitution” has been designed to develop understanding of the Indian Constitution among the students.

Objectives:

- To enable the students to understand the constitution’s origin and its power.
- To enable the students to analyze the political principles.
- To enable the students to be aware of their fundamental rights and duties.

The following course content is prescribed for this course.

UNIT –I

Meaning of constitution law and constitutionalism, Historical perspective of the constitution of India ,Salient features and characteristics of the constitution of India

UNIT –II

Scheme of fundamental rights,The scheme of the fundamental duties and its legal status,The Directive Principles of State Policy- its importance and implementation

UNIT –III

Federal structure and distribution of legislative and financial powers between the Union and the States,Parliamentary Form of Government in India-the constitution powers and status of the president of India,Amendment of the Constitutional Powers and Procedure

UNIT –IV

The historical perspectives of the constitutional amendments in India. Emergency provisions: National Emergency, President Rule, Financial Emergency, Local self government-Constitutional scheme in India

UNIT –V

Scheme of fundamental Right to Equality,Scheme of fundamental Right to certain Freedom under Article 19,Scope of the Right to Life and Personal Liberty under Article 21

OUTCOMES:

Students will be able to:

- improve their knowledge about Indian constitution
- Value their identity and exercise their fundamental rights.
- Understand how differently government bodies function.

MALLAREDDY COLLEGE OF ENGINEERING AND TECHNOLOGY

III YEAR B.Tech EEE- II SEM

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(MANDATORY COURSE)
(R18A0521) CYBER
SECURITY

COURSE OBJECTIVES:

- To familiarize various types of cyber-attacks and cyber-crimes
- To give an overview of the cyber laws
- To study the defensive techniques against these attacks

UNIT - I

INTRODUCTION TO CYBER SECURITY: Basic Cyber Security Concepts, layers of security, Vulnerability, threat, Harmful acts, Internet Governance – Challenges and Constraints, Computer Criminals, CIA Triad, Assets and Threat, motive of attackers, active attacks, passive attacks, Software attacks, hardware attacks, Spectrum of attacks, Taxonomy of various attacks, IP spoofing, Methods of defense, Security Models, risk management, Cyber Threats-Cyber Warfare, Cyber Crime, Cyber terrorism, Cyber Espionage, etc., Comprehensive Cyber Security Policy.

UNIT - II

CYBERSPACE AND THE LAW & CYBER FORENSICS: Introduction, Cyber Security Regulations, Roles of International Law. The INDIAN Cyberspace, National Cyber Security Policy. Introduction, Historical background of Cyber forensics, Digital Forensics Science, The Need for Computer Forensics, Cyber Forensics and Digital evidence, Forensics Analysis of Email, Digital Forensics Lifecycle, Forensics Investigation, Challenges in Computer Forensics, Special Techniques for Forensics Auditing.

UNIT - III

CYBERCRIME: MOBILE AND WIRELESS DEVICES: Introduction, Proliferation of Mobile and Wireless Devices, Trends in Mobility, Credit card Frauds in Mobile and Wireless Computing Era, Security Challenges Posed by Mobile Devices, Registry Settings for Mobile Devices, Authentication service Security, Attacks on Mobile/Cell Phones, Mobile Devices: Security Implications for Organizations, Organizational Measures for Handling Mobile, Organizational Security Policies and Measures in Mobile Computing Era, Laptops.

UNIT- IV

CYBER SECURITY: ORGANIZATIONAL IMPLICATIONS: Introduction cost of cybercrimes and IPR issues, web threats for organizations, security and privacy implications, social media marketing: security risks and perils for organizations, social computing and the associated challenges for organizations.

CYBERCRIME AND CYBER TERRORISM: Introduction, intellectual property in the cyberspace, the ethical dimension of cybercrimes the psychology, mindset and skills of hackers and other cyber criminals.

UNIT - V

PRIVACY ISSUES: Basic Data Privacy Concepts: Fundamental Concepts, Data Privacy Attacks, Data linking and profiling, privacy policies and their specifications, privacy policy languages, privacy in different domains- medical, financial, etc.

Cybercrime: Examples and Mini-Cases

Examples: Official Website of Maharashtra Government Hacked, Indian Banks Lose Millions of Rupees, Parliament Attack, Pune City Police Bust Nigerian Racket, e-mail spoofing instances.

Mini-Cases: The Indian Case of online Gambling, An Indian Case of Intellectual Property Crime, Financial Frauds in Cyber Domain.

TEXT BOOKS:

1. Nina Godbole and Sunit Belpure, Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives, Wiley
2. B. B. Gupta, D. P. Agrawal, Haoxiang Wang, Computer and Cyber Security: Principles, Algorithm, Applications, and Perspectives, CRC Press, ISBN 9780815371335, 2018.

REFERENCES:

1. Cyber Security Essentials, James Graham, Richard Howard and Ryan Otson, CRC Press.
2. Introduction to Cyber Security, Chwan-Hwa(john) Wu, J. David Irwin, CRC Press T&F Group.

COURSE OUTCOMES:

The students will be able to understand cyber-attacks, types of cybercrimes, cyber laws and also how to protect them self and ultimately the entire Internet community from such attacks.

(R18A0006) TECHNICAL COMMUNICATION AND SOFT SKILLS

INTRODUCTION:

Technical Communication and Soft skills focuses on enhancing students' communication. A thorough drill in grammar exercises is given. Various technical writing styles and skills are developed. The future placement needs of the students are met by giving them an exposure to group discussions and mock interviews.

The students hone these skills under the guidance of instructor whose constant evaluation helps in the professional development. This course fulfills the need of the aspirants in acquiring and improving the skills required for placements and professional success.

OBJECTIVES:

- To make the students recognize the role of Technical English in their academic and professional fields.
- To improve language proficiency and develop the required professional skills.
- To equip students with tools to organize, comprehend, draft short and long forms of technical work.

The textbook prescribed for study is a manual that has been compiled by the department of English to meet the academic and professional needs of the students.

UNIT I – Personal Evaluation

Self-Assessment and Self- Awareness - Self-Esteem - Perception and Attitudes - Values and Beliefs - Time Management- Concord

UNIT 2 - Professional Communication

Extempore - Oral Presentations – Presentation Aids- Email Writing, Business Letter Writing - Memo Writing - Transformation of Sentences

UNIT 3 – Career Planning

Group Discussion, Interviews - Leadership Skills & Team Building - Personal Goal Setting and Career Planning - Complex Problem Solving - Creativity - Role and Responsibilities of an Engineer - Tenses

UNIT 4 - Technical Writing

Principles of Effective Writing - Editing Strategies to Achieve Appropriate Technical Style – Technical Report Writing - Voice

UNIT 5 - Ethics and Responsibilities

Personality Development in Social and Office Settings – Netiquettes - Work Culture and Cubicle Etiquettes - Correction of Sentences

REFERENCES:

1. David F. Beer and David Mc Murrey, Guide to writing as an Engineer, John Willey. New York, 2004
2. Diane Hacker, Pocket Style Manual, Bedford Publication, New York, 2003. (ISBN 0312406843)
3. Shiv Khera, You Can Win, Macmillan Books, New York, 2003.
4. Raman Sharma, Technical Communications, Oxford Publication, London,2004.
5. Meenakshi Raman, Prakash Singh, Business communication, Oxford Publication, New Delhi 2012.
6. Dale Jung k, Applied Writing for Technicians, McGraw Hill, New York, 2004. (ISBN: 07828357-4)
7. Sharma, R. and Mohan, K. Business Correspondence and Report Writing, TMH New Delhi 2002.
8. Xebec, Presentation Book, TMH New Delhi, 2000. (ISBN 0402213)

OUTCOMES:

- The students will be able to understand information which assists in completion of the assigned job tasks more successfully.
- Students will be able to communicate their ideas by writing projects, reports, instructions, diagrams and many other forms of professional writing.
- Students will also be able to adhere to ethical norms of scientific communication.
- Students will be able to strengthen their individual and collaborative work strategies.