



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, Komapally, Secunderabad – 500100, Telangana State

1.3.1 Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

TITLE OF THE COURSE: HUMAN VALUES AND SOCIETAL PERSPECTIVE

COURSE 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 Interaction And Mutually Enriching Interaction With Nature.

COURSE 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 behaviour throughout their life.

TITLE OF THE COURSE: FOREIGN LANGUAGE

INTRODUCTION: In view of the growing importance of foreign languages as a tool for local communication in few countries French has been identified as one of the most required language after English. So the consequent emphasis on training students to acquire communicative competence in foreign language, the syllabus has been designed to develop linguistic and communicative competencies of engineering students. In the French classes, the focus is on the basic speaking skills.

COURSE OBJECTIVES:

1. To improve the basic speaking skills of the French language.
2. To hone the basic sentence constructions in day to day expressions for communication in their work place.

COURSE OUTCOMES:

1. The student will be in a position to speak in French, Which is the second most widely learned foreign language after English, and the ninth most widely spoken language in the world. French is also the only language, alongside English, that is taught in every country in the world.
2. The Student will get the ability to speak French is an advantage on the international job market.
3. Students with a good level of French are eligible for French government scholarships to enroll in postgraduate courses in France in any discipline and qualify for internationally recognized French degrees.

TITLE OF THE COURSE: 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.

COURSE OBJECTIVES:

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

COURSE OUTCOMES:

Students will be able to:

- 1) Improve their knowledge about Indian constitution
- 2) Value their identity and exercise their fundamental rights.
- 3) Understand how differently government bodies function.

TITLE OF THE COURSE: GENDER SENSITIZATION**COURSE OBJECTIVES:**

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 relatives that we thought we know. ... Educational spaces instil thought and make one have a perception that they believe.

COURSE OUTCOMES:

- 1 Students will have developed a better understanding of important issues related to gender in contemporary India.

2 Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.

3 Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.

4 Students will acquire insight into the gendered division of labour and its relation to politics and economics.

5 Men and Women students and professionals will be better equipped to work and live together as equals.

TITLE OF THE COURSE: ENVIRONMENTAL SCIENCE

COURSE OBJECTIVES:

We as human being are not an entity separate from the environment around us rather we are a constituent seamlessly integrated and co-exist with the environment around us. We are not an entity so separate from the environment that we can think of mastering and controlling it rather we must understand that each and every action of ours reflects on the environment and vice versa. Ancient wisdom drawn from Vedas about environment and its sustenance reflects this ethos. There is a direct application of this wisdom even in modern times. Idea of an activity-based course on environment protection is to sensitize the students on the above issues through following two type of activities.

COURSE OUTCOMES:

Based on this course, the Engineering graduate will understand /evaluate / develop technologies on the basis of Ecological principles and environmental regulations which in turn help in sustainable development. Understand the complex relationships between natural and human systems.

TITLE OF THE COURSE: GREEN ENERGY SYSTEMS

COURSE OBJECTIVES:

1. The course aims to highlight the significance of alternative sources of energy.
2. Green energy systems and processes and provides the theory and working principles of probable sources of renewable and green energy systems that are environmentally friendly

COURSE OUTCOMES:

1. The student shall understand the principles and working of solar, wind, biomass, geothermal, ocean energies.
2. Green energy systems and appreciate their significance in view of their importance in the current scenario and their potential future applications.

TITLE OF THE COURSE: ARTIFICIAL INTELLIGENCE

COURSE OBJECTIVES:

To train the students to understand different types of AI agents, various AI search algorithms, fundamentals of knowledge representation, building of simple knowledge-based systems and to apply knowledge representation, reasoning. Study of Markov Models enable the student ready to step into applied AI.

TITLE OF THE COURSE: 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

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.

TITLE OF THE COURSE: TECHNICAL COMMUNICATION AND SOFT SKILLS

COURSE OBJECTIVES:

1. 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.
2. Soft skills are personal attributes that influence how well you can work or interact with others.
3. These skills make it easier to form relationships with people, create trust and dependability, and lead teams

COURSE OUTCOMES:

1. The student will become proficient in LSRW skills.
2. They develop formal LSRW skills approach to different situations.
3. They hone professional ethics and learn to be proficient formally.