

# TEEGALA KRISHNA REDDY ENGINEERING COLLEGE

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated by JNTUH)

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## Details of Institution offers a course on Human values and Professional ethics

As part of curriculum “Environment Study” for first and second year, faculty makes students aware about the basic components of environment and their application in various fields. Institute organizes various activities like tree plantation, public awareness during festival season with the help of students. E.g. Importance of Blood donation and blood donation camps, importance of hygiene and individual responsibilities regarding the same, Immersion of Ganesh idol etc.

### Critical issues in Curriculum

Sr. No.	Description of critical issue	Title of course wherein the issue is addressed	Unit/chapter no.	Remarks
1	Environment sustainability	MC400ES: Environmental Science and Technology:	Unit I: Eco Systems Unit II : Natural Resources Unit III Biodiversity and Biotic Resources Unit IV: Environmental Pollution Unit V: Environmental Policy, Legislation and EIA	To create awareness in the students regarding our Environment and its pollution also the legal acts about it.
2	Environment sustainability	A50117: Disaster Management	UnitI: Environmental Hazards Unit III: Endangerous Hazards Unit IV : Exogenous Hazards Unit V: Emerging approaches in/ Disaster Management	To get the knowledge about natural disasters happening and their preventive measures.

3	Environment sustainability	CE602PC: Environmental Engineering	Unit I Water Supply Schemes Unit II Water Treatment Units Unit IV : Waste Water Treatment	To develop Water treatment techniques' in the students.
4	Environment sustainability	A60127: Ground Improvement Techniques	Unit I: Ground Modification	To increase the ground stabilization and improve lifetime of the structure in critical situations.
5	Environment sustainability	A60124: Environmental Impact Assessment	Unit I: Direct and Indirect Impacts Unit III: Meteorological data Unit IV: Soil Pollution	To aware about Environment impact and its preventive measures.
6	Gender Sensitization	MC300HS: Gender Sensitization	Unit I: Socialization Unit II: Gender and Biology Sex Education Unit III: Gender and Labor Unit IV: Speaking out towards Domestic violence.	Creating Gender Equality among girls and boys.
7	Human values and Professional ethics	A50018: Human values and Professional ethics.	Unit I: Natural acceptance Unit II: Understanding Harmony Unit III: Understanding Harmony in the society Unit IV: Nature & existence harmony Unit V: Human values acceptance	Development towards human values and ethics
8	Human values and Professional ethics	17MBA07 : Business Communication lab	Business communication aspects	Improvement of student communication in business aspects

## MC500HS: PROFESSIONAL ETHICS

**B.Tech. III Year I Sem.**

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### **Course Objective:**

To enable the students to imbibe and internalize the Values and Ethical Behaviour in the personal and Professional lives.

### **Course Outcome:**

The students will understand the importance of Values and Ethics in their personal lives and professional careers. The students will learn the rights and responsibilities as an employee, team member and a global citizen.

### **UNIT - I**

**Introduction to Professional Ethics:** Basic Concepts, Governing Ethics, Personal & Professional Ethics, Ethical Dilemmas, Life Skills, Emotional Intelligence, Thoughts of Ethics, Value Education, Dimensions of Ethics, Profession and professionalism, Professional Associations, Professional Risks, Professional Accountabilities, Professional Success, Ethics and Profession.

### **UNIT - II**

**Basic Theories:** Basic Ethical Principles, Moral Developments, Deontology, Utilitarianism, Virtue Theory, Rights Theory, Casuist Theory, Moral Absolution, Moral Rationalism, Moral Pluralism, Ethical Egoism, Feminist Consequentialism, Moral Issues, Moral Dilemmas, Moral Autonomy.

### **UNIT - III**

**Professional Practices in Engineering:** Professions and Norms of Professional Conduct, Norms of Professional Conduct vs. Profession; Responsibilities, Obligations and Moral Values in Professional Ethics, Professional codes of ethics, the limits of predictability and responsibilities of the engineering profession. Central Responsibilities of Engineers - The Centrality of Responsibilities of Professional Ethics; lessons from 1979 American Airlines DC-10 Crash and Kansas City Hyatt Regency Walk away Collapse.

### **UNIT – IV**

Work Place Rights & Responsibilities, Ethics in changing domains of Research, Engineers and Managers; Organizational Complaint Procedure, difference of Professional Judgment within the Nuclear Regulatory Commission (NRC), the Hanford Nuclear Reservation. Ethics in changing domains of research - The US government wide definition of research misconduct, research misconduct distinguished from mistakes and errors, recent history of attention to research misconduct, the emerging emphasis on understanding and fostering responsible conduct, responsible authorship, reviewing & editing

### **UNIT - V**

**Global issues in Professional Ethics:** Introduction – Current Scenario, Technology Globalization of MNCs, International Trade, World Summits, Issues, Business Ethics and Corporate Governance, Sustainable Development Ecosystem, Energy Concerns, Ozone Deflection, Pollution, Ethics in Manufacturing and Marketing, Media Ethics; War Ethics; Bio Ethics, Intellectual Property Rights.

### **TEXT BOOKS:**

1. Professional Ethics: R. Subramanian, Oxford University Press, 2015.
2. Ethics in Engineering Practice & Research, Caroline Whitbeck, 2e, Cambridge University Press 2015.

### **REFERENCES:**

1. Engineering Ethics, Concepts Cases: Charles E Harris Jr., Michael S Pritchard, Michael J Rabins, 4e , Cengage learning, 2015.
2. Business Ethics concepts & Cases: Manuel G Velasquez, 6e, PHI, 2008.