

Course Code	Course Title					Core/Elective	
MC952SP	NATIONAL SERVICE SCHEME (NSS)					Core	
Prerequisite	Contact Hours per Week				CIE	SEE	Credits
	L	T	D	P			
-	-	-	-	3	50	-	0
Course Objectives:							
<ul style="list-style-type: none"> ➤ To help in Character Moulding of students for the benefit of society. ➤ To create awareness among students on various career options in different fields. ➤ To remould the students behaviour with assertive skills and positive attitudes. ➤ To aid students in developing skills like communication, personality, writing and soft skills. ➤ To educate students towards importance of national integration, participating in electoral process etc by making them to participate in observing important days. 							

List of Activities:

1. Orientation programme about the role of NSS in societal development
2. Swachh Bharath Programme
3. Guest lecture's from eminent personalities on personality development
4. Plantation of saplings/Haritha Haram Programme
5. Blood Donation / Blood Grouping Camp
6. Imparting computer education to school children
7. Creating Awareness among students on the importance of Digital transactions
8. Stress management techniques
9. Health Checkup Activities
10. Observation of Important days like voters day, World Water Day etc.
11. Road Safety Awareness Programs
12. Energy Conservation Activities
13. Conducting Programme's on effective communication skills
14. Awareness programme's on national integration
15. Orientation on Improving Entrepreneurial Skills

16. Developing Effective Leadership skills
17. Job opportunity awareness programs in various defence, public sector undertakings
18. Skill Development Programmes
19. Creating awareness among students on the Importance of Yoga and other physical activities
20. Creating awareness among students on various government sponsored social welfare schemes for the people.

Note: At least Ten Activities should be conducted in the Semester. Each event conducted under swachhbharath, Plantation and important days like voters day, world water day may be treated as a separate activity.

Evaluation Process:

Total Marks: 50 marks for continuous evaluation

- a) 15 marks for viva voce.
- b) 35 marks for activities and exam

Shobha
HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD

Course Code	Course Title				Core / Elective		
MC901EG	GENDER SENSITIZATION				Core		
Prerequisite	Contact Hours perWeek				CIE	SEE	Credits
	L	T	D	P			
-	3	-	-	-	30	70	0

Course Objectives:

- To develop students' sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
- To introduce students to information about some key biological aspects of genders.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

Course Outcomes:

- Students will have developed a better understanding of important issues related to gender in contemporary India.
- 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.
- Students will attain a finer grasp of how gender discrimination works in our society and how to counter it.
- Students and professionals will be better equipped to work and live together as equals.
- Students will develop a sense of appreciation of women in all walks of life.

UNIT - I

UNDERSTANDING GENDER: Why Should We Study It? Socialization: Making Women, Making Men: Introduction-Preparing for Womanhood-Growing up male-First lessons in caste-Different Masculinities; **Just Relationships: Being Together as Equals:** Mary Kom and Onler-Love and acid just do not mix-Love Letters-Mothers and Fathers-Further reading: Rosa Parks-The brave heart.

UNIT - II

GENDER AND BIOLOGY: Missing Women: Sex selection and Its Consequences – Declining sex ratio. Demographic Consequences; Gender Spectrum: Beyond the Binary – Two or many – Struggles with discrimination; Our Bodies, Our Health.

UNIT - III

GENDER AND LABOUR: Housework: the Invisible Labour: “My mother doesn’t work”- Share the Load”; Women's Work; Its Politics and Economics: Fact and fiction-Unrecognized and unaccounted work- Wages and conditions of work.

UNIT - IV

ISSUES OF VIOLENCE: Sexual Harassment: Say No! : Sexual harassment – not eve-teasing-Coping with everyday harassment-“Chupulu”; Domestic Violence: Speaking Out: Is home a safe place? When women unite-Rebuilding lives-New forums for justice; Thinking about Sexual Violence: Blaming the victim – “I fought for my life”. The caste face of violence.

UNIT - V

GENDER STUDIES: Knowledge - Through the Lens of Gender - Point of view - Gender and the structure of knowledge – Unacknowledged women artists of Telangana: Whose History? Questions for Historians and Others: Reclaiming a past-Writing other histories-Missing pages from modern Telangana history.

Suggested Readings:

1. A.Suneetha, Uma Bhrugubanda, Duggirala Vasanta, Rama Melkote, VasudhaNagarajAsmaRasheed, GoguShyamala, DeepaSreenivas and Susie Tharu, “Towards a World of Equals: A Bilingual Text book on Gender” Telugu Akademi, Hyderabad, 1st Edition, 2015.
2. www.halfthesky.cgg.gov.in

Shobha
HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD

Course Code	Course Title				Core / Elective		
MC916CE	ENVIRONMENTAL SCIENCES				Core		
Prerequisite	Contact Hours per Week				CIE	SEE	Credits
	L	T	D	P			
NIL	3	-	-	-	30	70	3
Course Objectives <ul style="list-style-type: none"> ➤ To study the basic concepts, sources of water, floods and their impact on environment ➤ To know the ecosystems and energy resources systems ➤ To understand the Biodiversity concepts and their advantages ➤ To study the different pollutions and their impact on environment ➤ To know the social and environment related issues and their preventive measures Course Outcomes <ul style="list-style-type: none"> ➤ Aware of the effects of hazardous environment. ➤ Know optimum utilization of natural resources. ➤ Be a catalyst in moving towards Green technologies ➤ Know the rules and regulations of pollution control 							

UNIT-I

Environmental Studies: Definition, scope and importance, need for public awareness.

Natural resources: Water resources; use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams:benefits and problems. Effects of modern agriculture, fertilizer- pesticide problems, water logging and salinity.

UNIT-II

Ecosystems: Concept of an ecosystem, structure and function of an ecosystem, producers, consumers and decomposers, energy flow in ecosystem, food chains, ecological pyramids, aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries).

Energy resources: Growing energy needs, renewable and non-renewable energy sources. Land Resources, land as a resource, land degradation, soil erosion and desertification.

UNIT-III

Biodiversity: Genetic species and ecosystem diversity, bio-geographical classification of India. Value of biodiversity, threats to biodiversity, endangered and endemic species of India, conservation of biodiversity.

UNIT-IV

Environmental Pollution: Causes, effects and control measures of air pollution, water pollution, soil pollution, noise pollution, thermal pollution; solid and liquid waste management.

Environment Protection Act: Air, water, forest and wild life Acts, enforcement of environmental legislation.

UNIT-V

Social Issues and the Environment: Water conservation, watershed management, and environmental ethics. Climate change, global warming, acid rain, ozone layer depletion. **Environmental Disaster Management:** Types of disasters, impact of disasters on environment, infrastructure, and development. Basic principles of disaster mitigation, disaster management, and methodology. Disaster management cycle, and disaster management in India.

Suggested Reading:

1. A.K. De, **Environmental Chemistry**, Wiley Eastern Ltd.
2. E.P. Odum, **Fundamentals of Ecology**, W.B. Saunders Co., USA.
3. M.N. Rao and A.K. Datta , **Waste Water Treatment**, Oxford and IBK Publications.
4. Benny Joseph, **Environmental Studies**, Tata McGraw Hill, 2005.
5. V.K. Sharma, **Disaster Management**, National Centre for Disaster Management, IIPE, 1999. Green Building Council of India, Teri Document.

Shobha
HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD

CE 452

DISASTER MITIGATION AND MANAGEMENT

Instruction	4 Periods per week
Duration of University Examination	3 Hours
University Examination	75 Marks
Sessional	25 Marks

UNIT-I

Introduction - Natural, human induced and human made disasters
-international decade of disaster reduction.

UNIT-II

Natural Disasters - Hydrometereological based disasters - Tropical cyclones, floods, drought and desertification - Zones Geographical based disasters - Earth quake, Tsunammis, Landslides and avalanches.

UNIT-III

Human induced hazards - chemical industrial hazards, major power breakdowns, traffic accidents, etc.

UNIT-IV

Use of remote sensing and GIS disaster mitigation and management.

UNIT-V

Rich and vulnerability to disaster - mitigation and management options
-warning and forecasting.

Suggested Reading :

1. Rajib, S and Krishna Murthy, R. R (2012) "*Disaster Global Challenges and Local Solutions*" Universities Press, Hyderabad.
2. Navele, P & Raja, C. K (2009), *Earth and Atmospheric Disasters Management, Natural and Manmade*. B. S. Publications, Hyderabad.
3. Fearn-Banks, K (2011), *Crises computations approach: A case book approach*. Route ledge Publishers, Special Indian Education, New York & London.
4. Battacharya, T. (2012), *Disaster Science and Management*. Tata McGraw hill Company, New Delhi.

Course Code	Course Title				Core / Elective		
MC 771 EG	Human Values and Professional Ethics				Mandatory		
Prerequisite	Contact Hours per Week				CIE	SEE	Credits
	L	T	D	P			
-	2	-	-	-	30	70	-
Course Objectives							
Student has to understand the							
<ul style="list-style-type: none"> ➤ To develop a critical ability to distinguish between essence and form, or between what is of value and what is superficial, to life. ➤ To move from discrimination to commitment. It is to create an ability to act on any discrimination in a given situation. ➤ It encourages students to discover what they consider valuable. After learning the course, they should be able to discriminate between valuable and the superficial in real situations in their life. 							
Course Outcomes							
At the end of the course, the students will be able to							
<ol style="list-style-type: none"> 1. It ensures students sustained happiness through identifying the essentials of human values and skills. 2. It facilitates a correct understanding between profession and happiness 3. It helps students understand practically the importance of trust, mutually satisfying human behavior and enriching interaction with nature. 4. Ability to develop appropriate technologies and management patterns to create harmony in professional and personal life. 							

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 justice and program for its fulfillment; Trust and Respect as the foundational values of relationship. Difference between intention and competence. Difference between respect and differentiation; the other salient values in relationship. Understanding the harmony in the society (society being an extension of 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 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.

Suggested Readings:

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. Ivan Illich, 1974, Energy & Equity, The Trinity Press, Worcester, and HarperCollins, USA
3. E. F. Schumancher, 1973, Small is Beautiful: a study of economics as if people mattered. Blond & Briggs, Britain.
4. A Nagraj, 1998 Jeevan Vidya ek Parichay, Divya Path Sansthan, Amarkantak. Sussan George, 1976, How the Other Half Dies, Penguin Press, Reprinted 1986
5. Smriti Shrivastava, "Human Values and Professional Ethics", Katson Publications, 2007

Shobha . J
HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD