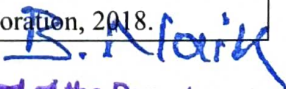


Course Code	Course Title	Core/Elective					
		Elective					
		L	T	P/D	Credits	CIE	SEE
OE501CE	Disaster Mitigation	3	0	0	3	40	60
Course Objectives: Upon completion of this course, students will be able to: <ol style="list-style-type: none"> 1. Define disaster and explain the different types of disasters. 2. Describe the disaster management cycle and the role of NDMA in disaster management. 3. Analyze the legal aspects of disaster management. 4. Develop disaster mitigation plans. 5. Participate in disaster response and recovery activities. 			Course Outcomes: After completion of the course, the student will be able to <ul style="list-style-type: none"> CO 1. Demonstrate the concepts of disaster management CO 2. Identify different types of disasters CO 3. Explain the disaster management cycle CO 4. Illustrate the role of NDMA in disaster management CO 5. Explain the development of disaster mitigation plan 				
Unit-I: Introduction to Disaster Management: Definition of disaster, Types of disasters, History of disaster management in India, National Disaster Management Authority (NDMA) and its role in disaster management, Disaster management cycle. Case studies of disasters in India and the world Unit II: Disaster Mitigation: Mitigation measures for different types of disasters, Use of technology in disaster mitigation, Disaster risk assessment, Disaster preparedness, Exercises and simulations on disaster mitigation. Unit III: Disaster Response: Search and rescue operations, Medical relief, Food and shelter, Restoration of essential services, Rehabilitation and reconstruction, Unit IV: Disaster Law and Policy: Disaster management acts of India, Disaster management policies of India, Legal aspects of disaster management Unit V: Disaster Communication and Public Awareness: Importance of communication in disaster management, Methods of disaster communication, Public awareness programs, Case studies of disaster communication and public awareness in India and the world							
Text Books: T1. R.Subramanian, Disaster Management, Vikas Publishing House, 2018. T2. M. M. Sulphery, Disaster Management, PHI Learning, 2016.							
Reference Books: R1. S. C. Sharma, Disaster Management: Concepts, Approaches and Techniques, Khanna Book Publishing House, 2017. R2. G. K. Ghosh, Disaster Management: Theory and Practice, APH Publishing Corporation, 2018.							


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Course Code	Course Title					Core/Elective	
MC112CE	Environmental Science (Common to All Branches)					Mandatory Course	
Prerequisite	Contact Hours per Week				CIE	SEE	Credits
	L	T	D	P			
-	2	-	-	-	30	70	-
Course Objectives <ul style="list-style-type: none"> ➤ To create awareness and impart basic knowledge about the environment and its allied problems. ➤ To know the functions of ecosystems. ➤ To understand importance of biological diversity. ➤ To study different pollutions and their impact on environment. ➤ To know social and environment related issues and their preventive measures. Course Outcomes After completing this course, the student will be able to: <ol style="list-style-type: none"> 1. Adopt environmental ethics to attain sustainable development. 2. Develop an attitude of concern for the environment. 3. Conservation of natural resources and biological diversity. 4. Creating awareness of Green technologies for nation's security. 5. Imparts awareness for environmental laws and regulations. 							

UNIT-I

The Multidisciplinary Nature of Environmental Studies: Definition, scope and importance, need for public awareness.

Natural Resources: Water Resources – Use and over utilization of surface and ground water, flood, drought, conflicts over water, Dams: Benefits and Problems. Food Resources –World Food Problems, effects of modern agriculture, fertilizer-pesticides problems, water logging, salinity, Forest Resources – Use and over exploitation, deforestation & its effect on tribal people. Land Resources –Land Degradation, environmental effect of mining, man induced landslides, soil erosion and desertification. Energy Resources –Growing energy needs, Renewable and Non-renewable energy resources.

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, ecological succession, types of ecosystems (marine, pond, river, forest, grassland, desert)

UNIT-III

Biodiversity: Levels of Biodiversity, Bio-geographical classification of India, Value of biodiversity, Threats to biodiversity, endangered and endemic species of India, Conservation of biodiversity, global and national efforts.

UNIT-IV

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

Environment Protection Act: Air, water, forest and wildlife Acts, issues in the enforcement of environmental legislation.

UNIT-V

Social Issues and the Environment: Watershed management and environmental ethics. Climate change, global warming, acid rain, ozone layer depletion.

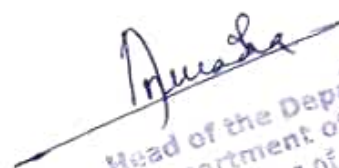
Environmental Disaster Management: Types of disasters, impact of disasters on environment, infrastructure, and development. Basic principles of disaster mitigation, disaster management, and methodology. Disaster management cycle and disaster management in India.

Field Work:

- Visit to a local area to document environmental issues- agricultural area/ pond/lake/terrestrial ecosystem
- Visit to a local polluted area- market/slum area/Industrial area/traffic area

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, IPE, 1999.


A.
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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, Basis 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. Schumaner, 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


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With effect from Academic Year 2017-2018

Course Code: PC90150C

GENDER SENSITISATION
3 Units

Instruction: (3L) per week
CIE: 30 Marks

Duration of SEE: 3 hours
SEE: 70 Marks

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 Reading:

1. A.Suneetha, Uma Bhrugubanda, DuggiralaVasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, GoguShyamala, Deepa Sreenivas and Susie Tharu, "Towards a World of Equals: A Bilingual Textbook on Gender." Telugu Akademi, Hyderabad, 1st Edition, 2015.
2. www.maitnesky.egg.gov.in

W


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