


Counseling Code: **MHVR**, University Code: **E3**

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum Response:

Cross cutting Issue	Regulations	Course code	Name of the Course	Year/ Sem	Branch	Academic Year
Professional Ethics & Human Values	R16	MC500HS	Professional Ethics	III-I	CE/CSE/ECE/ME/AERO/EEE/IT	2018-2019
	R13/R15	A50018	Human Values and Professional Ethics	III-I	CE/CSE	2017-2018
	R13/R15	A60018	Human Values and Professional Ethics	III-II	ME/ECE/IT/EEE/AERO	2017-2018
Gender	R18	MC309	Gender Sensitization Lab	II-I	EEE/IT	2019-2020
	R18	MC409	Gender Sensitization Lab	II-II	CE/ME/CSE/ECE/AERO	2019-2020
	R16	MC300HS	Gender Sensitization Lab	II-I	CE/ME/AERO	2017-2018
	R16	MC400HS	Gender Sensitization Lab	II-II	CSE/ECE/EEE/IT	2017-2018
	R13/R15	A400HS	Gender Sensitization	II-II	CSE/ECE/EEE/IT	2016-2017
	R13/R15	A300HS	Gender Sensitization	II-I	CE/ME/AERO	2016-2017
Environment And Sustainability	R18	MC109ES	Environmental Science	I-I	CE/ME/AERO/ECE	2018-2019
	R18	MC209ES	Environmental Science	I-II	EEE/CSE/IT	2018-2019
	R16	MC300ES	Environmental Science and Technology	II-I	CE/CSE/ECE/EEE/IT	2017-2018
	R16	MC400ES	Environmental Science and Technology	II-II	ME/AERO	2017-2018
	R13/R15	A30009	Environmental Science	II-I	ME	2016-2017
	R13/R15	A40009	Environmental Science	II-II	CE/ECE/CSE/IT	2016-2017
	R13/R15	A60119	Environmental Engineering	III-II	EEE/AERO	2017-2018


PRINCIPAL
MAHAVEER
INSTITUTE OF SCIENCE & TECHNOLOGY
Bandlaguda, Hyd-500 005.

***MC309/*MC409: GENDER SENSITIZATION LAB**
(An Activity-based Course)

B.TECH II Year II Sem.

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COURSE DESCRIPTION

This course offers an introduction to Gender Studies, an interdisciplinary field that asks critical questions about the meanings of sex and gender in society. The primary goal of this course is to familiarize students with key issues, questions and debates in Gender Studies, both historical and contemporary. It draws on multiple disciplines – such as literature, history, economics, psychology, sociology, philosophy, political science, anthropology and media studies – to examine cultural assumptions about sex, gender, and sexuality.

This course integrates analysis of current events through student presentations, aiming to increase awareness of contemporary and historical experiences of women, and of the multiple ways that sex and gender interact with race, class, caste, nationality and other social identities. This course also seeks to build an understanding and initiate and strengthen programmes combating gender-based violence and discrimination. The course also features several exercises and reflective activities designed to examine the concepts of gender, gender-based violence, sexuality, and rights. It will further explore the impact of gender-based violence on education, health and development.

Objectives of the Course:

- 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 expose the students to debates on the politics and economics of work.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

Learning 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 will acquire insight into the gendered division of labour and its relation to politics and economics.
- Men and women 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.
- Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.

UNIT - I: UNDERSTANDING GENDER

Introduction: Definition of Gender-Basic Gender Concepts and Terminology-Exploring Attitudes towards Gender-Construction of Gender-Socialization: Making Women, Making Men
- Preparing for Womanhood. Growing up Male. First lessons in Caste.

UNIT – II: GENDER ROLES AND RELATIONS

Two or Many? -Struggles with Discrimination-Gender Roles and Relations-Types of Gender Roles-Gender Roles and Relationships Matrix-Missing Women-Sex Selection and Its Consequences-Declining Sex Ratio. Demographic Consequences-Gender Spectrum: Beyond the Binary

UNIT – III: GENDER AND LABOUR

Division and Valuation of Labour-Housework: The Invisible Labor- “My Mother doesn’t Work.” “Share the Load.”-Work: Its Politics and Economics -Fact and Fiction. Unrecognized and Unaccounted work. - Gender Development Issues-Gender, Governance and Sustainable Development-Gender and Human Rights-Gender and Mainstreaming

UNIT – IV: GENDER - BASED VIOLENCE

The Concept of Violence- Types of Gender-based Violence-Gender-based Violence from a Human Rights Perspective-Sexual Harassment: Say No! -Sexual Harassment, not Eve-teasing- Coping with Everyday Harassment- Further Reading: “*Chupulu*”.

Domestic Violence: Speaking Out/Is Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives. Thinking about Sexual Violence Blaming the Victim-“I Fought for my Life....”

UNIT – V: GENDER AND CULTURE

Gender and Film-Gender and Electronic Media-Gender and Advertisement-Gender and Popular Literature- Gender Development Issues-Gender Issues-Gender Sensitive Language-Gender and Popular Literature - Just Relationships: Being Together as Equals

Mary Kom and Onler. Love and Acid just do not Mix. Love Letters. Mothers and Fathers. Rosa Parks-The Brave Heart.

Note: Since it is Interdisciplinary Course, Resource Persons can be drawn from the fields of English Literature or Sociology or Political Science or any other qualified faculty who has expertise in this field from engineering departments.

- **Classes will consist of a combination of activities: dialogue-based lectures, discussions, collaborative learning activities, group work and in-class assignments. Apart from the above prescribed book, Teachers can make use of any authentic materials related to the topics given in the syllabus on “Gender”.**

- ☞ **ESSENTIAL READING:** The Textbook, “*Towards a World of Equals: A Bilingual Textbook on Gender*” written by A.Suneetha, Uma Bhrugubanda, DuggiralaVasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu published by Telugu Akademi, Telangana Government in 2015.

ASSESSMENT AND GRADING:

- Discussion & Classroom Participation: 20%
- Project/Assignment: 30%
- End Term Exam: 50%

MC109ES/*MC209ES: ENVIRONMENTAL SCIENCE*B.Tech. I Year II Sem.**

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Course Objectives:

- Understanding the importance of ecological balance for sustainable development.
- Understanding the impacts of developmental activities and mitigation measures.
- Understanding the environmental policies and regulations

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 helps in sustainable development

UNIT-I

Ecosystems: Definition, Scope, and Importance of ecosystem. Classification, structure, and function of an ecosystem, Food chains, food webs, and ecological pyramids. Flow of energy, Biogeochemical cycles, Bioaccumulation, Biomagnification, ecosystem value, services and carrying capacity, Field visits.

UNIT-II

Natural Resources: Classification of Resources: Living and Non-Living resources, **water resources:** use and over utilization of surface and ground water, floods and droughts, Dams: benefits and problems. **Mineral resources:** use and exploitation, environmental effects of extracting and using mineral resources, **Land resources:** Forest resources, **Energy resources:** growing energy needs, renewable and non-renewable energy sources, use of alternate energy source, case studies.

UNIT-III

Biodiversity And Biotic Resources: Introduction, Definition, genetic, species and ecosystem diversity. Value of biodiversity; consumptive use, productive use, social, ethical, aesthetic and optional values. India as a mega diversity nation, Hot spots of biodiversity. Field visit. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts; conservation of biodiversity: In-Situ and Ex-situ conservation. National Biodiversity act.

UNIT-IV

Environmental Pollution and Control Technologies: Environmental Pollution: Classification of pollution, **Air Pollution:** Primary and secondary pollutants, Automobile and Industrial pollution, Ambient air quality standards. **Water pollution:** Sources and types of pollution, drinking water quality standards. **Soil Pollution:** Sources and types, Impacts of modern agriculture, degradation of soil. **Noise Pollution:** Sources and Health hazards, standards, **Solid waste:** Municipal Solid Waste management, composition and characteristics of e-Waste and its management. **Pollution control technologies:** Wastewater Treatment methods: Primary, secondary and Tertiary. Overview of air pollution control technologies, Concepts of bioremediation. **Global Environmental Issues and Global Efforts:** Climate change and impacts on human environment. Ozone depletion and Ozone depleting substances (ODS). Deforestation and desertification. International conventions / Protocols: Earth summit, Kyoto protocol, and Montréal Protocol. NAPCC-Gol Initiatives.

UNIT-V

Environmental Policy, Legislation & EIA: Environmental Protection act, Legal aspects Air Act- 1981, Water Act, Forest Act, Wild life Act, Municipal solid waste management and handling rules, biomedical waste management and handling rules, hazardous waste management and handling rules. EIA: EIA structure, methods of baseline data acquisition. Overview on Impacts of air, water, biological and Socio-economical aspects. Strategies for risk assessment, Concepts of Environmental Management Plan

(EMP). **Towards Sustainable Future:** Concept of Sustainable Development Goals, Population and its explosion, Crazy Consumerism, Environmental Education, Urban Sprawl, Human health, Environmental Ethics, Concept of Green Building, Ecological Foot Print, Life Cycle assessment (LCA), Low carbon life style.

TEXT BOOKS:

- 1 Textbook of Environmental Studies for Undergraduate Courses by Erach Bharucha for University Grants Commission.
- 2 Environmental Studies by R. Rajagopalan, Oxford University Press.

REFERENCE BOOKS:

1. Environmental Science: towards a sustainable future by Richard T. Wright. 2008 PHL Learning Private Ltd. New Delhi.
2. Environmental Engineering and science by Gilbert M. Masters and Wendell P. Ela. 2008 PHI Learning Pvt. Ltd.
3. Environmental Science by Daniel B. Botkin & Edward A. Keller, Wiley INDIA edition.
4. Environmental Studies by Anubha Kaushik, 4th Edition, New age international publishers.
5. Text book of Environmental Science and Technology - Dr. M. Anji Reddy 2007, BS Publications.
6. Introduction to Environmental Science by Y. Anjaneyulu, BS. Publications.

MC409/*MC309: CONSTITUTION OF INDIA*B.TECH II Year II Sem.****L T P C**
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The Constitution of India is the supreme law of India. Parliament of India cannot make any law which violates the Fundamental Rights enumerated under the Part III of the Constitution. The Parliament of India has been empowered to amend the Constitution under Article 368, however, it cannot use this power to change the “basic structure” of the constitution, which has been ruled and explained by the Supreme Court of India in its historical judgments. The Constitution of India reflects the idea of “Constitutionalism” – a modern and progressive concept historically developed by the thinkers of “liberalism” – an ideology which has been recognized as one of the most popular political ideology and result of historical struggles against arbitrary use of sovereign power by state. The historic revolutions in France, England, America and particularly European Renaissance and Reformation movement have resulted into progressive legal reforms in the form of “constitutionalism” in many countries. The Constitution of India was made by borrowing models and principles from many countries including United Kingdom and America.

The Constitution of India is not only a legal document but it also reflects social, political and economic perspectives of the Indian Society. It reflects India’s legacy of “diversity”. It has been said that Indian constitution reflects ideals of its freedom movement; however, few critics have argued that it does not truly incorporate our own ancient legal heritage and cultural values. No law can be “static” and therefore the Constitution of India has also been amended more than one hundred times. These amendments reflect political, social and economic developments since the year 1950. 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”.

Course content

1. Meaning of the constitution law and constitutionalism
2. Historical perspective of the Constitution of India
3. Salient features and characteristics of the Constitution of India
4. Scheme of the fundamental rights
5. The scheme of the Fundamental Duties and its legal status
6. The Directive Principles of State Policy – Its importance and implementation
7. Federal structure and distribution of legislative and financial powers between the Union and the States
8. Parliamentary Form of Government in India – The constitution powers and status of the President of India
9. Amendment of the Constitutional Powers and Procedure
10. The historical perspectives of the constitutional amendments in India
11. Emergency Provisions: National Emergency, President Rule, Financial Emergency
12. Local Self Government – Constitutional Scheme in India
13. Scheme of the Fundamental Right to Equality
14. Scheme of the Fundamental Right to certain Freedom under Article 19
15. Scope of the Right to Life and Personal Liberty under Article 21

MC510: INTELLECTUAL PROPERTY RIGHTS*III Year B.Tech. CSE I-Sem**

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UNIT – I

Introduction to Intellectual property: Introduction, types of intellectual property, international organizations, agencies and treaties, importance of intellectual property rights.

UNIT – II

Trade Marks: Purpose and function of trademarks, acquisition of trade mark rights, protectable matter, selecting, and evaluating trade mark, trade mark registration processes.

UNIT – III

Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law.

Law of patents: Foundation of patent law, patent searching process, ownership rights and transfer

UNIT – IV

Trade Secrets: Trade secrete law, determination of trade secrete status, liability for misappropriations of trade secrets, protection for submission, trade secrete litigation.

Unfair competition: Misappropriation right of publicity, false advertising.

UNIT – V

New development of intellectual property: new developments in trade mark law; copy right law, patent law, intellectual property audits.

International overview on intellectual property, international – trade mark law, copy right law, international patent law, and international development in trade secrets law.

TEXT & REFERENCE BOOKS:

1. Intellectual property right, Deborah. E. Bouchoux, Cengage learning.
2. Intellectual property right – Unleashing the knowledge economy, prabuddha ganguli, Tata McGraw Hill Publishing company ltd

PROFESSIONAL ETHICS

B.Tech. III Year I Sem.
Course Code: MC500HS

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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.

MC400HS: GENDER SENSITIZATION LAB**B.Tech. II Year II Sem.**

L	T	P	C
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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 expose the students to debates on the politics and economics of work.
- 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 will acquire insight into the gendered division of labour and its relation to politics and economics.
- Men and women 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.
- Through providing accounts of studies and movements as well as the new laws that provide protection and relief to women, the textbook will empower students to understand and respond to gender violence.

UNIT - I**UNDERSTANDING GENDER****Gender:** Why Should We Study It? (*Towards a World of Equals*: Unit -1)**Socialization:** Making Women, Making Men (*Towards a World of Equals*: Unit -2)

Introduction. Preparing for Womanhood. Growing up Male. First lessons in Caste. Different Masculinities.

UNIT - II**GENDER AND BIOLOGY:****Missing Women:** Sex Selection and Its Consequences (*Towards a World of Equals*: Unit -4)
Declining Sex Ratio. Demographic Consequences.**Gender Spectrum:** Beyond the Binary (*Towards a World of Equals*: Unit -10)

Two or Many? Struggles with Discrimination.

UNIT - III**GENDER AND LABOUR**

Housework: the Invisible Labour (*Towards a World of Equals*: Unit -3)

“My Mother doesn’t Work.” “Share the Load.”

Women’s Work: Its Politics and Economics (*Towards a World of Equals*: Unit -7)

Fact and Fiction. Unrecognized and Unaccounted work. Additional Reading: Wages and Conditions of Work.

UNIT-IV**ISSUES OF VIOLENCE**

Sexual Harassment: Say No! (*Towards a World of Equals*: Unit -6)

Sexual Harassment, not Eve-teasing- Coping with Everyday Harassment- Further Reading: “Chupulu”.

Domestic Violence: Speaking Out (*Towards a World of Equals*: Unit -8)

Is Home a Safe Place? -When Women Unite [Film]. Rebuilding Lives. Additional Reading: New Forums for Justice.

Thinking about Sexual Violence (*Towards a World of Equals*: Unit -11)

Blaming the Victim-“I Fought for my Life....” - Additional Reading: The Caste Face of Violence.

UNIT - V**GENDER: CO - EXISTENCE**

Just Relationships: Being Together as Equals (*Towards a World of Equals*: Unit -12)

Mary Kom and Onler. Love and Acid just do not Mix. Love Letters. Mothers and Fathers. Additional Reading: Rosa Parks-The Brave Heart.

TEXTBOOK

All the five Units in the Textbook, “*Towards a World of Equals: A Bilingual Textbook on Gender*” written by A. Suneetha, Uma Bhrugubanda, Duggirala Vasanta, Rama Melkote, Vasudha Nagaraj, Asma Rasheed, Gogu Shyamala, Deepa Sreenivas and Susie Tharu and published by **Telugu Akademi, Hyderabad**, Telangana State in the year **2015**.

Note: Since it is an Interdisciplinary Course, Resource Persons can be drawn from the fields of English Literature or Sociology or Political Science or any other qualified faculty who has expertise in this field from engineering departments.

REFERENCE BOOKS:

1. Menon, Nivedita. Seeing like a Feminist. New Delhi: Zubaan-Penguin Books, 2012
2. Abdulali Sohaila. “*I Fought For My Life...and Won.*” Available online at: <http://www.thealternative.in/lifestyle/i-fought-for-my-lifeand-won-sohaila-abdulali/>

MC300ES: ENVIRONMENTAL SCIENCE AND TECHNOLOGY**B.Tech. II Year I Sem.**

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Course Objectives:

- Understanding the importance of ecological balance for sustainable development.
- Understanding the impacts of developmental activities and mitigation measures
- Understanding the environmental policies and regulations

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 helps in sustainable development

UNIT - I

Ecosystems: Definition, Scope and Importance of ecosystem. Classification, structure, and function of an ecosystem, Food chains, food webs, and ecological pyramids. Flow of energy, Biogeochemical cycles, Bioaccumulation, Biomagnification, ecosystem value, services and carrying capacity, Field visits.

UNIT - II

Natural Resources: Classification of Resources: Living and Non-Living resources, **water resources:** use and over utilization of surface and ground water, floods and droughts, Dams: benefits and problems. **Mineral resources:** use and exploitation, environmental effects of extracting and using mineral resources, **Land resources:** Forest resources, **Energy resources:** growing energy needs, renewable and non renewable energy sources, use of alternate energy source, case studies.

UNIT - III

Biodiversity And Biotic Resources: Introduction, Definition, genetic, species and ecosystem diversity. Value of biodiversity; consumptive use, productive use, social, ethical, aesthetic and optional values. India as a mega diversity nation, Hot spots of biodiversity. Field visit. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts; conservation of biodiversity: In-Situ and Ex-situ conservation. National Biodiversity act.

UNIT - IV

Environmental Pollution and Control Technologies: Environmental Pollution: Classification of pollution, **Air Pollution:** Primary and secondary pollutants, Automobile and Industrial pollution, Ambient air quality standards. **Water pollution:** Sources and types of pollution, drinking water quality standards. **Soil Pollution:** Sources and types, Impacts of modern agriculture, degradation of soil. **Noise Pollution:** Sources and Health hazards, standards, **Solid waste:** Municipal Solid Waste management, composition and characteristics

of e-Waste and its management. **Pollution control technologies:** Wastewater Treatment methods: Primary, secondary and Tertiary.

Overview of air pollution control technologies, Concepts of bioremediation. **Global Environmental Problems and Global Efforts:** Climate change and impacts on human environment. Ozone depletion and Ozone depleting substances (ODS). Deforestation and desertification. International conventions / Protocols: Earth summit, Kyoto protocol, and Montréal Protocol.

UNIT - V

Environmental Policy, Legislation & EIA: Environmental Protection act, Legal aspects Air Act- 1981, Water Act, Forest Act, Wild life Act, Municipal solid waste management and handling rules, biomedical waste management and handling rules, hazardous waste management and handling rules. EIA: EIA structure, methods of baseline data acquisition. Overview on Impacts of air, water, biological and Socio-economical aspects. Strategies for risk assessment, Concepts of Environmental Management Plan (EMP). **Towards Sustainable Future:** Concept of Sustainable Development, Population and its explosion, Crazy Consumerism, Environmental Education, Urban Sprawl, Human health, Environmental Ethics, Concept of Green Building, Ecological Foot Print, Life Cycle assessment (LCA), Low carbon life style.

TEXT BOOKS:

1. Textbook of Environmental Studies for Undergraduate Courses by Erach Bharucha for University Grants Commission.
2. Environmental Studies by R. Rajagopalan, Oxford University Press.

REFERENCE BOOKS:

1. Environmental Science: towards a sustainable future by Richard T. Wright. 2008 PHL Learning Private Ltd. New Delhi.
2. Environmental Engineering and science by Gilbert M. Masters and Wendell P. Ela. 2008 PHI Learning Pvt. Ltd.
3. Environmental Science by Daniel B. Botkin & Edward A. Keller, Wiley INDIA edition.
4. Environmental Studies by Anubha Kaushik, 4th Edition, New age international publishers.
5. Text book of Environmental Science and Technology - Dr. M. Anji Reddy 2007, BS Publications.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III Year B.Tech. ME-II Sem	L	T/P/D	C
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(A60018) HUMAN VALUES AND PROFESSIONAL ETHICS**(Open Elective)**

Objectives : This introductory course input is intended

- a. 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.
- b. 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.
- c. 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 Suvridha. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer). Understanding the characteristics and activities of 'I' and harmony in 'I'. 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-astitva 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 Co-existence : 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. Basis 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.

Case studies of typical holistic technologies, management models and production systems. Strategy for transition from the present state to Universal Human Order:

- a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers.
- b) At the level of society: as mutually enriching institutions and organizations .

TEXT BOOK

1. R R Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.

2. Prof. KV 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. Schumacher, 1973, Small is Beautiful: a study of economics as if people mattered, Blond & Briggs, Britain.
3. A Nagraj, 1998, Jeevan Vidya ek Parichay, Divya Path Sansthan, Amarkantak.
4. Sussan George, 1976, How the Other Half Dies, Penguin Press. Reprinted 1986, 1991.
5. PL Dhar, RR 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 Govindrajran, S Natrajan & V.S. Senthil Kumar, Engineering Ethichs (including Human 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. Charlie Chaplin, Modern Times, United Artists, USA
5. IIT Delhi, Modern Technology – the Untold Story



Programmes Related to Values Rights Duties & Responsible Of Citizens.

- 1) Rakshabandhan celebrations with soliders at Artillery centre Mehdiapatnam
- 2) NSS orientation programme
- 3) Swacch pakwada at college level
- 4) Swaccha pakwada at university level
- 5) NSS at Mahaveer institute of science and technology
- 6) Surgical strike day at artillery centre of Golconda fort, Hyderabad
- 7) AIDS day awareness
- 8) Volunteering at TS Assembly Elections
- 9) Swami vivekananda Pushpanjali programme
- 10) Kanti velugu program
- 11) Republic day celebrations at MIST CAMPUS
- 12) Bharath matha ki mahaharathi

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Dt: 24-08-18

CIRCULAR

Sub: Rakshbandhan with soliders in artillery center, Mehadiptnam

All the faculty members and students are here by informed that "Rakshbandhan with soliders in artillery center, Mehadiptnam" will be organised by NSS unit of Mahaveer Institute of Science and Technology is scheduled on 26th AUGUST 2018 between 9.30AM to 2.00PM in mehadiptnam artillery center. Students, teaching and non-teaching staff members are requested to participate this event.

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^s
Dt: 26-08-18

Programme 5 : Rakshbandhan with soliders in artillery center, Mehdiptnam

In this program *NSS girls* students were participated to tie the rakhi's to soliders in artillery center mehadipatnam along with NSS program officer *Dr.M Vasanthalakshmi*. Scores of girls tied rakhis to soldiers on the occasion of "*Raksha bandhan*" , the soldiers expressed their views and happiness with those students for celebrating the festival with them.



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Di: 16-07-2018

CIRCULAR

Sub: NSS Orientation program

All the faculty members and students are here by informed that "NSS Orientation program" will be organised by NSS unit of Mahaveer Institute of Science and Technology is scheduled on **18TH JULY 2018** between 9.30AM to 2.00PM in our college campus. Students, teaching and non-teaching staff members are requested to participate this event.

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Programme : NSS Orientation program

This program was conducted for all the departments of *First Year* students to create awareness on *National Service Scheme* and how *NSS was started in INDIA* and what is the importance of NSS logo, every student of NSS has to work out 246hrs of service to the society to get NSS certificate, for this *100 Volunteers* are eligible and they have to participate in activities like Swatch sarvekshan, Rk math programs, university level NSS activities, youth festivals and special camps compulsory.



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Dt: 30-08-2018

CIRCULAR

**Sub: Swacch Pakwada at College
Level**

All the faculty members and students are here by informed that "Swacch Pakwada At College Level" will be organised by NSS unit of Mahaveer Institute of Science and Technology is scheduled on 1ST SEPTEMBER 18 -15TH SEPTEMBER 18 between 9.30AM to 2.00PM in our college campus. Students, teaching and non-teaching staff members are requested to participate this event.

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Programme : Swachta Pakwada At College Level

This program was organized by *NSS cell MIST*, to attain *Swachhta* within and outside the campus, all the departments of Mahaveer students were participated along with the NSS cell coordinator and faculty members, the students gave some *swachhta slogans* also like clean nation – clean us , cleanliness from inside and outside, health automatically will reside both sides, Go clean Go Green etc.

On these days *Best Out Of Waste* program was also conducted, for this students shown their talent and they gave the best things from wastage. The students received certificates from *Sri.S.Sudharshan Reddy chairmen of Mahaveer institute of science and technology* on **15/8/2018** for the best events



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Dt:14-09-2018

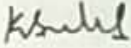
CIRCULAR

Sub: Swaccha Pakwada at University Level

All the faculty members and students are here by informed that "Swaccha Pakwada At University Level" will be organised by NSS unit of Mahaveer Institute of Science and Technology in Association jntuh is scheduled on 16TH SEPTEMBER 2018 between 9.30AM to 2.00PM in JNTUH. Students, teaching and non-teaching staff members are requested to participate this event.

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Programme : Swaccha Pakwada At University Level

This is a *Swachh Pakhwada Workshop* on 16/9/2018 which includes the topics like Swachh Bharat Abhiyan , cleanliness , waste management , kitchen gardens , segregation of wastage at JNTUH organized by *NSS unit cell JNTUH* , the NSS volunteers of Mahaveer Institute of Science and technology along with their NSS program officer Dr.M vasanthalakshmi were participated after completion of this workshop students were also participated in the swachhta program at JNTU Hyderabad.



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Dt: 22-09-2018

CIRCULAR

Sub: NSS day at Mahaveer Institute of Science and Technology

All the faculty members and students are here by informed that "NSS day at Mahaveer Institute of Science and Technology" will be organised by NSS unit of Mahaveer Institute of Science and Technology is scheduled on 24TH SEPTEMBER 2018 between 10.0AM to 2.00PM in our college campus. Students, teaching and non-teaching staff members are requested to participate this event.

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Dt: 24-09-2018

Programme : NSS day at Mahaveer Institute of Science and Technology

NSS day was celebrated at *Mahaveer Institute of Science and Technology* on *24/9/2018* In this event all the NSS unit students were participated and they organized some culture activities like singing dancing, elocution etc, In this program NSS program officer *Dr.M.Vasata laxmi* also participated, after completion of program NSS unit coordinator provided the certificates to the NSS volunteers



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Dt:27-09-2018

CIRCULAR

Sub: Surgical strike day on at Artillery center of Golconda Hyderabad

All the faculty members and students are hereby informed that "Surgical strike day on at Artillery center of Golconda fort Hyderabad programme" will be organized by NSS unit of Mahaveer Institute Of Science and Technology in Association is scheduled on 29th SEPTEMBER 2018 between 9.30AM to 2.00PM in GOLCONDA FORT HYDERABAD. Students, teaching and non-teaching staff members are requested to participate this event.

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Dt:29-09-18

Programme : Surgical strike day on at Artillery center of Golconda fort Hyderabad

According to the instructions given by UGC to all the NSS Unit cell to participate in this *Surgical Strike Day* which was conducted at *Artillery center of Golkonda fort Hyderabad on 29/09/2018* keeping in view the national importance of *Parakram Parva*.

On this day NSS volunteers of Mahaveer, nearly 50 NSS volunteers along with NSS program officer *Dr.M Vasantha lakshmi* were participated and pledged their support for the armed force.



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Dt: 29/11/2018

CIRCULAR

Sub: AIDS day Awareness

All the faculty members and students are here by informed that "AIDS day Awareness" will be organised by NSS unit of Mahaveer Institute of Science and Technology is scheduled on 1st DECEMBER 2018 between 10.00AM to 2.00PM in our college campus. Students, teaching and non-teaching staff members are requested to participate this event.

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Dt: 1/12/2018

Programme : AIDS day Awareness

This program was organized at Mahaveer Institute of Science and technology on 1/12/2018 organized by NSS volunteers and program officer. This program was conducted to provide the awareness on HIV prevention, treatment and support activities, like marathon, rally etc. for this so many students participated from different branches of MIST.



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Dt: 5/12/2018

CIRCULAR

Sub: Volunteering At TS Assembly Elections

All the faculty members and students are here by informed that "Volunteering At TS Assembly Elections" will be organised by NSS unit of Mahaveer Institute of Science and Technology in Association with chief electoral officer election is scheduled on 7TH DECEMBER 2018 between 9.30AM to 2.00PM in our college campus. Students, teaching and non-teaching staff members are requested to participate this event.

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Programme : Volunteering At TS Assembly Elections

As per the instructions given by *Chief Electoral officer Election*, Election Commission Telangana state, The motto of the election commissions is *No voter to be left behind* has declared 2018 as the *Year of Accessible Election* with the objective to enhance participation of persons with disabilities in the Electoral process for this 40 members of NSS volunteers of Mahaveer Institute of science and technology participated on 7/12/2018 at various polling stations and they helped to disabled persons along with some faculty members.



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Date: 06-01-2017

CIRCULAR

Sub: Swami Vivekananda Pushpanjali Programme

All the faculty members and students are here by informed that "Swami Vivekananda Pushpanjali Programme" will be organized by NSS unit of Mahaveer Institute Of Science and Technology is scheduled on 09th JANUARY 2017 between 9.30AM to 2.00PM in our college campus. Students, teaching and non-teaching staff members are requested to participate this event.

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Programme : Pushpanjali Program

On the occasion of Swami Vivekananda Birth Anniversary Celebrations *Vevekananda Pushpanjali* program was conducted at Mahaveer Institute of science and Technology by NSS unit MIST. For this program *VHEC Director Swami Bodahamayananda* and *TV 5 Chairman Kasa Subba Rao* were invited as a guest of honours. In this program *Sri S. Sudharshan Reddy garu* Chairmen of Mahavaeer group , secretary *Sri.S.Surendar Reddy garu*, *Principal Dr. K.S.S.S.N Readdy garu* , NSS Cordinator Dr.M Vasantha lakshmi Garu and all the Teaching and Non Teaching staff and students of all the departments were participated.



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Di: 4/1/2019

CIRCULAR

Sub: Kanti Velugu Program

All the faculty members and students are here by informed that "Kanti Velugu Program" will be organised by NSS unit of Mahaveer Institute of Science and Technology is scheduled on 7TH JANUARY – 9TH JANUARY 2019 between 9.30AM to 2.00PM in our college campus. Students, teaching and non-teaching staff members are requested to participate this event.

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Dt: 7/1/2019 – 9/1/2019

Programme : Kanti Velugu Program

This *Kanti Velugu (eye chekup)* program was a three days program conducted on 7-1-2019 and 9-1-2019 in MIST college auditorium with the help of *Telangana Govt*. Hospital Ghouse Nagar Bandlaguda organized by NSS unit MIST, nearly *500 members of students and faculties* has been checkup their eyes *spectacles and medicines has distributed to the needy people* and for good treatment for others has been suggested to other specialists. This program has been completed successfully under the chairperson *Sri S. Sudharshan Reddy garu*, Secretary and director *H.S.N Murthy garu*, principal *Dr. K.S.S.S.N Reddy garu*, and *Dr.M vasantha laxmi*.



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Dt: 25/01/2019

CIRCULAR

Sub: Republic Day celebrations at MIST Campus

All the faculty members and students are hereby informed that "Republic Day celebrations at MIST Campus" will be organised by NSS unit of Mahaveer Institute of Science and Technology is scheduled on 26TH JANUARY 2019 between 9.30AM to 2.00PM in our college campus. Students, teaching and non-teaching staff members are requested to participate this event.

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Dt: 26/01/2019

Programme : Republic Day celebrations at MIST Campus

On the occasion of *Republic day celebrations at MIST college campus*, NSS Volunteers did the *NSS pared* in the college campus for this all the NSS volunteers were participated and appreciated by the College management and after that flag hosting done by chairmen Sri S.Sudharshan Reddy garu, secretary Sri S.Surendar reddy garu, principal Dr.K.S.S.S.N Reddy garu for this all the faculty members and Students were participated after that Other culture activities had been conducted and certificates also distributed to the students.



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Dt:24-01-2019

CIRCULAR

Sub: Bharathmatha ki Maha Harathi

All the faculty members and students are here by informed that "Bharathmatha ki Maha Harathi will be organised by NSS unit of Mahaveer Institute of Science and Technology in Association with bharatha matha foundation scheduled on 26TH JANUARY 2019 between 9.30AM to 2.00PM peoples plaza hyderabad. Students, teaching and non-teaching staff members are requested to participate this event.

Copy to:

All Hod's, Principal
polytechnic, Exam
Branch incharge,
Librarian


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Programme : Bharathmatha ki Maha Harathi

This program was organized by *Bharath matha Foundation*, at peoples plaza Hyderabad at 5.00pm, chief guest of this program is *Sri Chaganti Koteswara Rao Garu* and *Sri G.Kishan Reddy garu founder of Bharath Mata Foundation*, To Celebrate the Spirit Of Patriotism At The Maha Harathi and tribute to the nation on the occasion of republic day. 1000's of people were participated in this event. The main motto of this event is for *Gnnis world record* by this India had created a new record with 1000 girls dressed in the attire of Bharatha Mata while presenting the **Tiranga Theme**. On this special event our college students were also participated.



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