Course		Course			
Code	Course Name		Stru	cture	e
P21XXXXX	Professional Ethics and Human Values	L	Т	Р	C
F2IAAAA	FIOLESSIONAL ETHICS and Human values	3	0	0	3

External Marks: 70

#### Course Prerequisite: None Course Objectives:

- 1. To introduce the students to the Human values and help them to lead a peaceful life in the society by contributing to peace and safety in the society.
- 2. To help the students to know about the history of ethics and importance of social experimentation
- 3. To specify the students about the importance of their responsibility towards safety and risk as Engineers.
- 4. To specify the students about the importance of their responsibility as Engineers.
- 5. To help the student explore the ethical values globally.

#### Course Outcomes:At the end of the course, student will be able

- 1. To learn about the different Human values to be maintained by all the people.
- 2. To learn about the history of ethics and the importance of ethics for professionals and application of ethics in social experimentation.
- 3. To learn about the responsibilities of engineers for safety and risk.
- 4. To learn about the responsibilities and rights of engineers.
- 5. To learn about global work environment with respect to ethics.

#### UNIT-I:

**Human Values:** Morals, Values and Ethics – Integrity – Work Ethics – Service Learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty –Courage – Value time – Co-operation – Commitment – Empathy – Selfconfidence – Spirituality- Character.

#### UNIT-II:

#### (10 Lectures)

(10 Lectures)

(8 Lectures)

**Engineering Ethics:** The History of Ethics-Purposes for Engineering Ethics-Engineering Ethics - Consensus and Controversy –Professional and Professionalism –Professional Roles to be played by an Engineer –Self Interest, Customs and Religion-Uses of Ethical Theories-Professional Ethics-Engineering and Ethics-Kohlberg's Theory – Gilligan's Argument –Heinz's Dilemma.

**Engineering as Social Experimentation:** Comparison with Standard Experiments – Knowledge gained – Conscientiousness – Learning from the Past – Engineers as Managers, Consultants, and Leaders – Role of Codes – Codes and Experimental Nature of Engineering.

#### UNIT-III:

#### Engineers' Responsibility for Safety and Risk: Safety and Risk, Concept of

Safety – Types of Risks – Voluntary v/s Involuntary Risk- Short term v/s Long term Consequences- Expected Probability- Reversible Effects- Threshold Levels for Risk- Delayed v/s Immediate Risk- Safety and the Engineer – Designing for Safety – Risk Benefit Analysis-Accidents.

#### UNIT-IV:

#### (8 Lectures)

**Engineers' Responsibilities and Rights:** Collegiality-Techniques for Achieving Collegiality –Two Senses of Loyalty - obligations of Loyalty-misguided Loyalty – professionalism and Loyalty - Professional Rights –Professional Responsibilities – confidential and proprietary information-Conflict of Interest-solving conflict problems – Self interest, Customs and Religion- Ethical egoism-Collective bargaining Confidentiality-Acceptance of Bribes/Gifts-when is a Gift and a Bribe examples of Gifts v/s Bribes-problem solving-interests in other companies Occupational Crimes-industrial espionage-price fixing-endangering lives Whistle Blowing-types of whistle blowing-when should it be attempted preventing whistle blowing. **UNIT-V:** (9 Lectures)

**Global Issues:** Globalization- Cross-culture Issues-Environmental Ethics-Computer Ethics computers as the instrument of Unethical behaviour-computers as the object of Unethical Acts-autonomous computers-computer codes of Ethics - Weapons Development-Ethics and Research-Analysing Ethical Problems in Research-Intellectual Property Rights.

#### **Text Books:**

- 1. Engineering Ethics and Human Values, M.Govindarajan, S.Natarajan, V.S. Senthil Kumar, PHI Learning Pvt. Ltd, 2009.
- 2. Professional Ethics and Morals, Prof.A.R.Aryasri, Dharanikota Suyodhana, Maruthi Publications.
- 3. Professional Ethics and Human Values, A.Alavudeen, R.Kalil Rahman, M. Jayakumaran- 1st Edition, Laxmi Publications, 2015.
- 4. Professional Ethics and Human Values, Prof. D.R. Kiran, 2nd Edition, Mc-Graw Hill, 2014.

#### **Reference Books:**

- 1. Indian Culture, Values and Professional Ethics, PSR Murthy, 2nd Edition, BS Publication, 2013.
- 2. Ethics in Engineering, Mike W. Martin and Roland Schinzinger, 3rd Edition, Tata McGraw-Hill,2003.
- 3. Engineering Ethics, Harris, Pritchard and Rabins, India Edition, 5th Edition, Wadsworth Publishing Co Inc, 2013.

#### text Web Resources:

- R21
- crescent.education/wp-content/.../12/Crescent-human-values-pro fessional-ethics.pdf
- 2. https://www.crectirupati.com/.../HVPE-MBA-K%20YAMUNA-LECTURE%2 ONOTES
- 3. https://lecturenotes.in/subject/576/professional-ethics-and-h uman-values-pehv
- 4. https://nptel.ac.in/courses/109104068/30
- 5. https://onlinecourses.nptel.ac.in/noc18\_mg25



Course			Cοι	ırse	
Code	Course Name	;	Stru	cture	e
P21MEE08	Renewable Sources of Energy	L	Т	Р	C
FZ IWIELOO	Renewable Sources of Energy	3	0	0	3

External Marks: 70

**Course Prerequisite:** Engineering Physics, Engineering Chemistry **Course Objectives:** The student will be able to

- 1. Create awareness about sources of energy and able to estimate how long the available conventional fuel reserves will last.
- 2. Learn the fundamental concepts about solar energy systems and devices.
- 3. Design wind turbine blades and know about applications of wind energy for water pumping and electricity generation.
- 4. Assimilate the working of OTEC system and different possible ways of extracting energy from ocean
- 5. Learn the fundamental concepts about Magneto-hydrodynamics and fuel cells.

Course Outcomes: At the end of this course, the students will be able to

- 1. Assimilate of renewable and non-renewable sources of energy
- 2. Gain knowledge about working principle of various solar energy systems
- 3. Understand the application of wind energy and wind energy and Bio-mass conversion system.
- 4. Develop capability to do basic design of Ocean Thermal Energy Conversion
- 5. Assimilate the applications of different renewable energy sources like hydro, fuel cells etc.

#### UNIT-I:

**ENERGY RESOURCES:** Introduction to Conventional Energy Resources - Availability and their limitations; Energy Non-Conventional Energy Resources – Classification, Advantages, Limitations, Comparison of Conventional and Non-Conventional Energy Resources, World Energy Scenario, Indian Energy Scenario. Energy Storage: Sizing and Necessity of Energy Storage.

#### UNIT-II:

**SOLAR THERMAL SYSTEMS:** Introduction, Solar Constant, Basic Sun-Earth Angles, Measurement of Solar Radiation Data – Pyranometer and Pyrheliometer, Principle of Conversion of Solar Radiation into Heat, – Solar thermal collectors and characteristics –Flat plate collectors – Heat transfer processes – Solar concentrators' parabolic trough, parabolic dish, Central Tower Collector –performance and evaluation

#### UNIT-III:

**WIND ENERGY:** Introduction, Sources and potentials, horizontal and vertical axis windmills, performance characteristics, betz criteria, types of winds, wind data measurement.

### (9 Lectures)

(9 Lectures)

#### (9 Lectures)

**BIO-MASS ENERGY:** Introduction, Principles of bio-conversion, anaerobic/aerobic digestion, types of bio-gas digesters, gas yield, combustion characteristics of bio-gas, utilization for cooking, bio fuels, I.C. engine operation and economic aspects. **UNIT-IV :** (9 Lectures)

GEOTHERMAL ENERGY & OCEAN THERMAL ENERGY CONVERSION (OTEC): Introduction, Resources, types of wells, methods of harnessing the energy, potential in India. Introduction, Resources, Ocean thermal energy conversion (OTEC) Availability, theory and working principle, performance and limitations UNIT-V: (9 Lectures)

**MAGNETO-HYDRO DYNAMICS (MHD):** Introduction, Principle of working of MHD Power plant, performance and limitations.

**FUEL CELLS:** Principle of working of various types of fuel cells and their working, performance and limitations.

#### **Text Books:**

- 1. Solar Energy, Sukhatme. S.P., Tata McGraw Hill Publishing Company Ltd., New Delhi, 1997.
- "Renewal Energy Resources", John Twideu and Tony Weir, BSP Publications, 2006.
- 3. "Energy Resources: Conventional & Non-Conventional", M.V.R. Koteswara Rao, BSP Publications, 2006.
- 4. Non-Conventional Energy Resources, Khan B.H., Tata McGraw Hill, New Delhi, 2006.
- 5. Renewable Energy Sources, Twidell, J.W. & Weir, A. EFN Spon Ltd., UK, 2006.
- 6. Solar Energy: Fundamentals and Applications, Garg, Prakash, Tata McGraw Hil, 1997.

#### **Reference Books:**

- 1. Non-Conventional Energy Sources, Khanna Publications, G.D. Rai, New Delhi, 2011.
- 2. "Renewable Energy, Power for a Sustainable Future", Godfrey Boyle, , Oxford University Press, U.K., 1996.
- 3. Biogas Technology A Practical Handbook, Khandelwal, K.C., Mahdi, S.S., Tata McGraw-Hill, 1986.
- 4. "Fundamentals Design, Modeling & Applications", Tiwari. G.N., Solar Energy – Narosa Publishing House, New Delhi, 2002.
- 5. "Wind Energy Conversion Systems", Freris. L.L., Prentice Hall, UK, 1990.

#### WEB LINKS

- 1. https://www.sciencedirect.com
- $2. \ \texttt{https://www.nrel.gov}$
- 3. https://www.energy.gov
- 4. https://www.eia.gov
- 5. https://biomassenergytechniques.com
- 6. https://new.ingwb.com



Course		Course			
Code	Course Name	;	Stru	cture	5
P21MCT03	Environmental Science	L	Т	P	C
1211/10105	Environmental Science	2	0	0	0

**Course Prerequisite:**Basic knowledge about sciences up to intermediate or equivalent level.

Course Objectives: The student will be able to

- 1. Overall understanding of the natural resources
- 2. Basic understanding of the ecosystem and its diversity
- 3. Acquaintance on various environmental challenges induced due to unplanned anthropogenic activities
- 4. An understanding of the environmental impact of developmental activities
- 5. Awareness on the social issues, environmental legislation and global treaties

**Course Outcomes:** After going through this course the student will be able to acquire

- 1. The concepts of the ecosystem and its function in the environment. The need for protecting the producers and consumers in various ecosystems and their role in the food web
- 2. The natural resources and their importance for the sustenance of the life and recognize the need to conserve the natural resources
- 3. Various attributes of the pollution and their impacts and measures to reduce or control the pollution along with waste management practices
- 4. The biodiversity of India and the threats to biodiversity, and conservation practices to protect the biodiversity
- 5. Social issues both rural and urban environment and the possible means to combat the challenges and environmental assessment stages involved in EIA and the environmental audit.

#### UNIT-I:

#### (9 Lectures)

(8 Lectures)

**MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES:** Definition, Scope and Importance– Need for Public Awareness. Renewable energy Resources, Solar energy-solar cells, solar batteries, wind energy, wind mills, ocean energy, tidal energy and nonrenewable energy resources: LPG, water gas, producer gas. World food problems, degradation and Soil erosion - overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging and salinity.

#### UNIT-II:

**ECOSYSTEMS:** Concept of an ecosystem. – Structure, Components and function of an ecosystem – Producers, consumers and decomposers – Energy flow in the ecosystem – Ecological succession – Ecological pyramids - Food chains, food webs and Introduction, types, characteristic features, structure and function of the following ecosystem: a. Forest ecosystem. b. Grassland ecosystem c. Desert ecosystem d. Aquatic – River and Lake Ecosystems.

#### UNIT-III:

**BIODIVERSITY AND ITS CONSERVATION:** Introduction, Definition: genetic, species and ecosystem diversity – Bio-geographical classification of India –Value of biodiversity: consumptive use, Productive use, social, ethical and aesthetic values – Biodiversity at global, National and local levels – India as a mega-diversity nation – Hot-spots of biodiversity – Threats to biodiversity: habitat loss, poaching of wildlife, Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

#### UNIT-IV:

**ENVIRONMENTAL POLLUTION:** Definition, Cause, Effects and Control measures of : a. Air Pollution, b. Water pollution, c. Soil pollution, d. Marine pollution, e. Noise pollution, f. Nuclear hazards.

**Solid Waste Management:** Causes, effects and control measures of urban and industrial wastes

Disaster management: floods, earthquake, cyclone and landslides.

UNIT-V:

#### (8 Lectures)

**SOCIAL ISSUES AND THE ENVIRONMENT:** From unsustainable to sustainable development – Urban problems related to energy – Water conservation, rain water harvesting and watershed management –Environmental ethics: Issues and possible solutions – Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies Population growth – Impacts on society, variation among nations. Environmental Impact Assessment (EIA) and Environmental Protection Acts.

#### Text Books:

- 1. Text book of Environmental Studies for Undergraduate Courses by ErachBharucha for University Grants Commission, Universities Press, 2005.
- Environmental Studies by Benny Joseph, Tata McGraw Hill Co, New Delhi, 2008.

#### **Reference Books:**

- 1. Environmental Science & Engineering by Dr. A. Ravikrishnan, Hitech Publishing Company Pvt. Ltd. 2013.
- 2. Perspectives in Environmental Studies, Second edition, AnubhaKoushik and C.P. Koushik, New Age International (P) Limited, Publishers, 2004.

#### **Online References:**

- 1. Environmental Science Oxford Research Encyclopedia
- 2. Environmental Science Museum of Science and Industry
- $3. \ Colleges at.du.ac.in/UG/Envinromental\%20 Studies\_ebook.pdf$

#### (9 Lectures)

(8 Lectures)

Course			Cou	ırse	
Code	Course Name	;	Stru	cture	2
P21CET07	Environmental Engineering	L	Т	P	C
FZICEIU	Environmentai Engineering	3	0	0	3

External Marks: 70

#### **Course Objectives:**

- 1. Outline planning and the design of water supply systems for a community/town/city
- 2. Provide knowledge of water quality requirement for domestic usage
- 3. Impart understanding of importance of protection of water source quality
- 4. Enlightens the efforts involved in converting raw water into clean potable water.
- 5. Impart knowledge on design of water distribution network. Selection of valves and fixture in water distribution systems..

Course Outcomes: Upon successful completion of this course

- 1. Plan and design the water and distribution networks and sewerage systems
- 2. Identify the water source and select proper in take structure
- 3. Characterisation of water.
- 4. Selection of suitable treatment flow for raw water treatments
- 5. Select the appropriate appurtenances in the water supply

#### UNIT-I:

#### (10 Lectures)

**Introduction:** Importance and Necessity of Protected Water Supply systems, Water borne diseases, Flow chart of public water supply system, Role of Environmental Engineer.

**Water Demand and Guantity Estimation:** Estimation of water demand for a town or city, Per capita Demand and factors influencing it- factors affecting water demand, DesignPeriod, Population forecasting.

**Collection and Conveyance of Water:** Factors governing the selection of the intake structure, Conveyance of Water: Gravity and Pressure conduits, Types of Pipes, Pipe Materials, Pipe joints, Design aspects of pipe lines, Design of economical diameter of pumping main, HP of pump and monthly expenditure for an apartment and a village. Laying and testing of pipe lines- Capacity of storage reservoirs, Mass curve analysis.

#### UNIT-II:

**Analysisofwater:**Physical,Chemical and Biological characteristics and WHO guide lines for drinking water -IS105002012-Water quality standards forAgriculture, Industries and Construction.

**Treatment of water:** Treatment methods: Theory and Design of Sedimentation, Coagulation, Filtration. Theory of disinfection-Chlorination and other Disinfection methods.

#### UNIT-III:

#### (8 Lectures)

(10 Lectures)

**Miscellaneous treatments:** Removal of color and odors- Removal of Iron and Manganese - Adsorption- Fluoridation and de fluoridation–Reverse Osmosis-Solar stills- Freezing

**Distribution of Water:** Methods of Distribution system, Layouts of Distribution networks, Water main appurtenances - Sluice valves, Pressure relief valves, air valves, check valves, hydrants, and water meters–Ideal water supply system. Case studies

UNIT-IV:

#### (9 Lectures)

**Introduction to sanitation:** Sewerage systems - Estimation of sewage flow and storm water drainage, fluctuations, types of sewers, design of sewers. Sewer appurtenances, Cleaning and ventilation of sewers, Sewage pumps.

**House Plumbing:** Systems of plumbing– Design of drainage in Gated communities, Apartments and Hotels. Septic Tank - Working Principles and Design

UNIT-V: (10 Lectures) Sewage characteristics – Characteristics of sewage- BOD equations ThOD COD

**Sewage characteristics**–Characteristics of sewage- BOD equations. ThOD, COD and BOD.

**Treatment of Sewage:** Primary treatment. Secondary treatment: Activated Sludge Process, principles, designs, and operational problems. Oxidation ponds, Trick-ling Filters classification –design, operation and maintenance problems. RBCs. Fluidized bed reactors –Anaerobic digestion of sludge, Sludge Drying Beds.

**Ultimate Disposal of sewage:** Methods of disposal – disposal into water bodies-Oxygen Sag Curve- Disposal into sea, disposal on land, Crown corrosion, Sewage sickness. Effluent standards.

#### **Text Books:**

- 1. Environmental Engineering Howard S. Peavy, Donald R. Rowe, Teorge George Tchobanoglus – Mc-Graw-Hill Book Company, New Delhi, 1985.
- 2. Rural Municipal and Industrial water management, KVSG MuraliKarishna, Environmental Protection Society, Kakinada, 2021.
- 3. Industrial Water and Wastewater Management, K.V.S.G. Murali Krishna, Paramount Publications, Visakhapatnam, 2018.
- 4. Elements of Environmental Engineering K. N. Duggal, S. Chand & Company Ltd., New Delhi, 2012.

#### References

- 1. WaterSupplyEngineering –P.N.Modi.
- 2. WaterSupplyEngineering -B.C.Punmia
- 3. WaterSupplyandSanitaryEngineering-G.S. BirdieandJ. S. Birdie
- 4. EnvironmentalEngineering, D.Srinivasan, PHILearningPrivateLimited,NewDelhi, 2011.

#### Web References:

- 1. https://nptel.ac.in/courses/105/104/105104102/
- 2. https://lecturenotes.in/notes/18698-note-for-environmental-eng ineering-ee-by-garikapati-rambabu?reading=true



Course			Coι	ırse	
Code	Course Name	;	Stru	cture	e
P21CET10	Geotechnical Engineering	L	Т	P	C
FZICEIIO	Geotechnical Englieering	3	0	0	3

External Marks: 70

#### Course Prerequisite: Engineering Geology Course Objectives:

- 1. To enable the student to determine the index properties of the soil and classify it.
- 2. To impart the concept of seepage of water through soils and determine the discharge of water through soils.
- 3. To impart the principles of compaction and consolidation of soils and determine the magnitude and the rate of consolidation settlement.
- 4. To enable the student to understand the concept of shear strength of soils, determine the shear parameters of sands and clays and the areas of their application

Course Outcomes: At the end of this course, the student will be able to

- 1. Define various properties of soil and construct relation between them.
- 2. Explain permeability and seepage through soils.
- 3. Analyze and explain stress distribution through soil.
- 4. Describe compaction and consolidation phenomenon is soils.
- 5. Identify shear stress in soil and theories of failure.

#### UNIT-I:

#### (10 Lectures)

(10 Lectures)

(8 Lectures)

**Introduction:** Soil formation – soil structure and clay mineralogy – Adsorbed water – Mass- volume relationship –Relative density

**Index Properties of Soils:** Grain size analysis – Sieve and Hydrometer methods – consistency limits and indices – Various Types of soil Classifications – Unified soil classification and I.S. Soil classification.

#### UNIT-II:

**Permeability:** Soil water – capillary rise – One dimensioned flow of water through soils – Darcy'sLaw- permeability – Factors affecting –laboratory determination of coefficient of permeability –Permeability of layered systems.

**Geostatic Stresses:** Total, neutral and effective stresses –quick sand condition Seepage: 2-D flow and Laplace's equation-Seepage through soils–Flow nets: Characteristics and Uses.

#### UNIT-III:

**Stress Distribution In Soils:** Stresses induced by applied loads - Boussinesq and Westergaard'stheories for point loads and areas of different shapes– Newark's influence chart – 2:1 stress distribution method.

#### R21

#### UNIT-IV:

**UNIT-V:** 

#### (9 Lectures)

**Compaction:** Mechanism of compaction – factors affecting – effects of compaction on soil properties - compaction control.

**Consolidation:** Compressibility of soils –e-p and e-log p curves – Stress history – Concept of consolidation - Spring Analogy - Terzaghi's theory of one-dimensional Consolidation – Time rate of consolidation and degree of consolidation – Determination of coefficient of consolidation (cv) – Over consolidated and normally consolidated clays.

#### (10 Lectures)

**Shear Strength of Soils:** Basic mechanism of shear strength -Mohr – Coulomb Failure theories Stress-Strain behavior of Sands - Critical Void Ratio – Stress-Strain behavior of clays – Shear Strength determination- various drainage conditions.

#### **Text Books:**

- 1. Gopal Ranjan and A.S.R.Rao, "Basic and Applied Soil Mechanics", New Age International Publishers 2005
- 2. V.N.S.Murthy, "Soil Mechanics and Foundation Engineering", CBS publishers 2001

#### **Reference BOOKS**

- 1. D.W.Taylor, "Fundamentals of Soil Mechanics", Wiley.
- 2. Holtz and Kovacs, "An introduction to Geotechnical Engineering" Prentice Hall
- 3. Donald P. Coduto, Man-chu Ronald Young and William A. Kitch.Limit state design of reinforced concrete structures by P C Varghese, PHI Learning pvt. Ltd.

#### Web Resources:

- 1. https://archive.nptel.ac.in/courses/105/101/105101201/
- 2. https://unacademy.com/course/geotechnical-engineering-soil-mec hanics-gate-ce/PJA6Y7UYV

#### **AUDIT 1 and 2: DISASTER MANAGEMENT**

#### **Course Objectives: -**

Students will be able to:

- 1. Learn to demonstrate a critical understanding of key concepts in disaster risk reduction and humanitarian response.
- 2. Critically evaluate disaster risk reduction and humanitarian response policy and practice from multiple perspectives.
- 3. Develop an understanding of standards of humanitarian response and practical relevance inspecific types of disasters and conflict situations.
- 4. critically understand the strengths and weaknesses of disaster management approaches, planning and programming in different countries, particularly their home country or the countries they work in

Syllabu Units	s CONTENTS Hours				
	Introduction				
1	Disaster: Definition, Factors And Significance; Difference	4			
	Bisuster: Definition, Factors Find Significance, Difference Between				
	Hazard And Disaster; Natural And Manmade Disasters: Difference,				
	Nature, Types And Magnitude.				
2	Repercussions Of Disasters And Hazards: Economic Damage,	4			
	Loss				
	Of Human And Animal Life, Destruction Of Ecosystem.				
	Natural Disasters: Earthquakes, Volcanisms, Cyclones, Tsunamis,				
	Floods, Droughts And Famines, Landslides And Avalanches, Man-				
	made disaster: Nuclear Reactor Meltdown, Industrial Accidents, Oil				
	Slicks And Spills, Outbreaks Of Disease And Epidemics, War And				
	Conflicts.				
3	Disaster Prone Areas In India	4			
	Study Of Seismic Zones; Areas Prone To Floods And Droughts,				
	Landslides And Avalanches; Areas Prone To Cyclonic And Coastal				
	Hazards With Special Reference To Tsunami; Post-Disaster				
	Diseases				
	And Epidemics				
4	Disaster Preparedness And Management	4			
	Preparedness: Monitoring Of Phenomena Triggering A Disaster Or				
	Hazard; Evaluation Of Risk: Application Of Remote Sensing, Data				
	From Meteorological And Other Agencies, Media Reports:				
	Governmental And Community Preparedness.				
5	Risk Assessment	4			
	Disaster Risk: Concept And Elements, Disaster Risk Reduction, Global				
	And National Disaster Risk Situation. Techniques Of Risk Assessment,				
	Global Co-Operation In Risk Assessment And Warning, People's				
	Participation In Risk Assessment. Strategies for Survival.				
6	Disaster Mitigation	4			
0	Meaning, Concept And Strategies Of Disaster Mitigation, Emerging	4			
	Trends In Mitigation. Structural Mitigation And Non-Structural				
	Mitigation, Programs Of Disaster Mitigation In India.				

#### **Suggested Readings:**

- 1. R. Nishith, Singh AK, "Disaster Management in India: Perspectives, issues and strategies "New Royal book Company.
- 2. Sahni, PardeepEt.Al. (Eds.)," Disaster Mitigation Experiences And Reflections", PrenticeHallOf India, New Delhi.
- 3. Goel S. L., Disaster Administration And Management Text And Case Studies", Deep &DeepPublication Pvt. Ltd., New Delhi.

Course		Course			
Code	Course Name		Stru	cture	e
P21CET12	Water Resources Engineering	L	Т	P	C
FZICETIZ	water Resources Engineering	3	0	0	3

External Marks: 70

#### Course Prerequisite: DDRCS Course Objectives:

- 1. Estimate irrigation water requirements.
- 2. Design irrigation canals
- 3. Understand hydrologic cycle and its relevance to Civil engineering.
- 4. Learn physical processes and their interactions in hydrology.
- 5. Learn measurement and estimation of the components of hydrologic cycle
- 6. Have an overview and understanding of Hydrographs

Course Outcomes: At the end of this course, the student will be able to

- 1. Estimate water requirement for crops.
- 2. Classify and design canals, Diversion works to carry water to the irrigation field.
- 3. Describe hydrological concepts and rainfall estimation in an area.
- 4. Explain abstractions in precipitation and runoff in a catchment area.
- 5. Develop unit hydrograph and synthetic hydrograph.

#### UNIT-I:

# **Irrigation:** Necessity and importance, principal crops and crop seasons, types, methods of application, soil water-plant relationship, soil moisture constants, consumptive use, estimation of consumptive use, crop water requirement, duty and delta, factors affecting duty, depth and frequency of irrigation, irrigation efficiencies, water logging and drainage, standards of quality for irrigation water, crop rotation.

#### UNIT-II:

**Canals:** Classification, design of non-erodible canals - methods of economic section and maximum permissible velocity, economics of canal lining, design of erodible canals -Kennedy's silt theory and Lacey's regime theory, balancing depth of cutting. Diversion Head Works: Types of diversion head works, weirs and barrages, layout of diversion head works, components. Causes and failures of weirs on permeable foundations, Bligh's creep theory, Khosla's theory, design of impervious floors for subsurface flow, exit gradient.

#### UNIT-III:

**Introduction:** Engineering hydrology and its applications, Hydrologic cycle, hydrological data-sources of data. Precipitation: Types and forms, measurement, introduction to radar measurement of rain fall, rain gauge network, presentation

## (10 Lectures)

(10 Lectures)

#### (8 Lectures)

of rainfall data, average rainfall, continuity and consistency of rainfall data, frequency of rainfall, Intensity-Duration-Frequency (IDF) curves, Depth-Area-Duration (DAD) curves, Probable Maximum Precipitation (PMP), design storm.

#### UNIT-IV:

**Abstractions:** Initial abstractions, Evaporation: factors affecting, measurement, estimation, reduction, Evapotranspiration: factors affecting, measurement, estimation, control, Infiltration: factors affecting, Infiltration capacity curve, measurement, infiltration indices. Runoff: Factors affecting runoff, components, empirical formulae, tables and curves, stream gauging, rating curve, flow mass curve and flow duration curve.

#### UNIT-V:

**Hydrograph analysis:** Components of hydrograph, separation of base flow, effective rainfall hyetograph and direct runoff hydrograph, unit hydrograph, assumptions, derivation of unit hydrograph, unit hydrographs of different durations, principle of superposition and S-hydrograph methods, limitations and applications of unit hydrograph, dimensionless unit hydrograph, synthetic unit hydrograph, introduction to IUH.

#### **Text Books:**

- 1. 1. Irrigation and Waterpower Engineering' by Punmia B C, P.B.B Lal, A.K. Jain and A.K. Jain (2009), Laxmi Publications Pvt. Ltd., New Delhi
- 2. Irrigation Water Resources and Waterpower Engineering' by Modi P N (2011), Standard BookHouse, New Delhi
- 3. 'Engineering Hydrology' by Subramanya, K, Tata McGraw-Hill Education Pvt Ltd, (2013), NewDelhi.
- 4. 'Engineering Hydrology' by Jayarami Reddy, P, Laxmi Publications Pvt. Ltd., (2013), NewDelhi

#### **Reference Books**

- 1. 'Water Resources Engineering' by Mays L.W (2013), Wiley India Pvt.
- 'Irrigation Engineering' by Sharma R.K. and Sharma, T. K (2012), S. Chand & Co Publishers. Design of Steel Structures by K.S.Sai Ram, Person India Education Services

#### Web Resources:

- 1. https://archive.nptel.ac.in/courses/105/105/105105110/
- 2. https://unacademy.com/course/water-resources-engineering-and-i rrigation-gate-ce/X9CKKUTM

#### (9 Lectures)

#### (10 Lectures)

- http://www.ipindia.nic.in
- $2. \ \texttt{http://ipindia.nic.in/girindia}$
- 3. http://ipindia.nic.in/tmr\_new/default.htm



Course		Course			
Code	Course Name	;	Stru	cture	2
P21MCT03	Environmental Science	L	Т	Р	C
F211010105	Environmental Science	3	0	0	3

**Course Prerequisite:**Basic knowledge about sciences up to intermediate or equivalent level.

Course Objectives: The student will be able to

- 1. Overall understanding of the natural resources
- 2. Basic understanding of the ecosystem and its diversity
- 3. Acquaintance on various environmental challenges induced due to unplanned anthropogenic activities
- 4. An understanding of the environmental impact of developmental activities
- 5. Awareness on the social issues, environmental legislation and global treaties

**Course Outcomes:** After going through this course the student will be able to acquire

- 1. TThe need for protecting , the students will be able to acquire.
- 2. The natural resources and their importance for the sustenance of the life.
- 3. Various attributes of the pollution and their impacts.
- 4. The biodiversity of India and conservation practices to protect the biodiversity
- 5. Social issues both rural and urban environment and the possible means to combat the challenges.

#### UNIT-I:

**MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES:** Definition, Scope and Importance– Need for Public Awareness. Renewable energy Resources, Solar energy-solar cells, solar batteries, wind energy, wind mills, ocean energy, tidal energy and nonrenewable energy resources: LPG, water gas, producer gas. World food problems, degradation and Soil erosion - overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging and salinity.

#### UNIT-II:

**ECOSYSTEMS:** Concept of an ecosystem. – Structure, Components and function of an ecosystem – Producers, consumers and decomposers – Energy flow in the ecosystem – Ecological succession – Ecological pyramids - Food chains, food webs and Introduction, types, characteristic features, structure and function of the following ecosystem: a. Forest ecosystem. b. Grassland ecosystem c. Desert ecosystem d. Aquatic – River and Lake Ecosystems.

#### UNIT-III:

**BIODIVERSITY AND ITS CONSERVATION:** Introduction, Definition: genetic, species and ecosystem diversity – Bio-geographical classification of India –Value of biodiversity: consumptive use, Productive use, social, ethical and aesthetic values –

#### (8 Lectures)

(9 Lectures)

(8 Lectures)

Biodiversity at global, National and local levels – India as a mega-diversity nation – Hot-spots of biodiversity – Threats to biodiversity: habitat loss, poaching of wildlife, Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

#### UNIT-IV:

**ENVIRONMENTAL POLLUTION:** Definition, Cause, Effects and Control measures of : a. Air Pollution, b. Water pollution, c. Soil pollution, d. Marine pollution, e. Noise pollution, f. Nuclear hazards.

**Solid Waste Management:** Causes, effects and control measures of urban and industrial wastes

**Disaster management:** floods, earthquake, cyclone and landslides.

UNIT-V:

#### (8 Lectures)

**SOCIAL ISSUES AND THE ENVIRONMENT:** From unsustainable to sustainable development – Urban problems related to energy – Water conservation, rain water harvesting and watershed management –Environmental ethics: Issues and possible solutions – Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies Population growth – Impacts on society, variation among nations. Environmental Impact Assessment (EIA) and Environmental Protection Acts.

#### **Text Books:**

- 1. Text book of Environmental Studies for Undergraduate Courses by Erach Bharucha for University Grants Commission, Universities Press, 2005.
- 2. Environmental Studies by Benny Joseph, Tata McGraw Hill Co, New Delhi, 2008.

#### **Reference Books:**

- 1. Environmental Science & Engineering, Anubha Kaushik, New Age International (P) Limited, 2006.
- 2. Perspectives in Environmental Studies, Second edition, AnubhaKoushik and C.P. Koushik, New Age International (P) Limited, Publishers, 2006.

#### **Online References:**

- 1. Environmental Science Oxford Research Encyclopedia
- 2. Environmental Science Museum of Science and Industry
- $3. \ Colleges at.du.ac.in/UG/Envinromental\%20 Studies\_ebook.pdf$

#### (9 Lectures)

Course			Cοι	ırse	
Code	Course Name		Stru	cture	Ş
P91XXXXX	Professional Ethics & Human Values	L	Т	P	С
	Tunes & Human Values	2	0	0	0

External Marks: 70

#### **Course Objectives:**

- 1. To introduce the students to the Human values and help them to lead a peaceful life in the society by contributing to peace and safety in the society.
- 2. To help the students to know about the history of ethics and importance of social experimentation
- 3. To specify the students about the importance of their responsibility towards safety and risk as Engineers.
- 4. To specify the students about the importance of their responsibility as Engineers.
- 5. To help the student explore the ethical values globally.

**Course Outcomes:** At the end of this course, the student will be able to

- 1. To learn about the different Human values to be maintained by all the people.
- 2. To learn about the history of ethics and the importance of ethics for professionals and application of ethics in social experimentation.
- 3. To learn about the responsibilities of engineers for safety and risk.
- 4. To learn about the responsibilities and rights of engineers.
- 5. To learn about global work environment with respect to ethics.

#### **UNIT-I: Human Values**

**Human Values:** Morals, Values and Ethics – Integrity – Work Ethics – Service Learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing –Honesty –Courage – Value time – Co-operation – Commitment – Empathy – Selfconfidence – Spirituality- Character.

UNIT-II: Engineering Ethics and Social Experimentation (12 Lectures)
 Engineering Ethics: The History of Ethics-Purposes for Engineering Ethics-Engineering Ethics - Consensus and Controversy –Professional and Professionalism –Professional Roles to be played by an Engineer –Self Interest, Customs and Religion-Uses of Ethical Theories-Professional Ethics-Engineering and Ethics-Kohlberg's Theory – Gilligan's Argument –Heinz's Dilemma. Engineering as Social Experimentation: Comparison with Standard Experiments –Knowledge gained – Conscientiousness – Learning from the Past – Engineers as Managers, Consultants, and Leaders – Role of Codes – Codes and Experimental Nature of Engineering.
 UNIT-III: Engineers' Responsibility for Safety and Risk (9 Lectures)

136

#### (9 Lectures)

Engineers' Responsibility for Safety and Risk: Safety and Risk, Concept of Safety – Types of Risks – Voluntary v/s Involuntary Risk- Short term v/s Long term Consequences- Expected Probability- Reversible Effects- Threshold Levels for Risk-Delayed v/s Immediate Risk- Safety and the Engineer – Designing for Safety – Risk Benefit Analysis-Accidents.

#### UNIT-IV: Engineers' Responsibilities and Rights

Engineers' Responsibilities and Rights: Collegiality-Techniques for Achieving Collegiality –Two Senses of Loyalty - obligations of Loyalty-misguided Loyalty –professionalism and Loyalty - Professional Rights –Professional Responsibilities –confidential and proprietary information-Conflict of Interest-solving conflict problems – Self interest, Customs and Religion- Ethical egoism-Collective bargaining Confidentiality-Acceptance of Bribes/Gifts-when is a Gift and a Bribe examples of Gifts v/s Bribes-problem solving-interests in other companies Occupational Crimes-industrial espionage-price fixing-endangering lives Whistle Blowing-types of whistle blowing-when should it be attempted preventing whistle blowing.

#### **UNIT-V:Global Issues**

#### **Global Issues:** Globalization- Cross-culture Issues-Environmental Ethics-Computer Ethics computers as the instrument of Unethical behaviour-computers as the object of Unethical Acts-autonomous computers-computer codes of Ethics Weapons Development-Ethics and Research-Analysing Ethical Problems in Research-Intellectual Property Rights.

#### Text Books:

- 1. "Engineering Ethics and Human Values" by M.Govindarajan, S.Natarajan and V.S. Senthil Kumar-PHI Learning Pvt. Ltd-2009.
- 2. "Professional Ethics and Morals" by Prof.A.R.Aryasri, Dharanikota Suyodhana-Maruthi Publications.
- 3. "Professional Ethics and Human Values" by A.Alavudeen, R.Kalil Rahman and M. Jayakumaran- Laxmi Publications.
- 4. "Professional Ethics and Human Values" by Prof.

#### **Reference Books**

- 1. "Indian Culture, Values and Professional Ethics" by PSR Murthy, BS Publication.
- 2. "Ethics in Engineering" by Mike W. Martin and Roland Schinzinger Tata McGraw-Hill 2003.
- 3. "Engineering Ethics" by Harris, Pritchard and Rabins, CENGAGE Learning, India Edition, 2009.

#### Web References:

#### (12 Lectures)

#### (10 Lectures)

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- crescent.education/wp-content/.../12/Crescent-human-values-pro fessional-ethics.pdf
- 2. https://www.crectirupati.com/.../HVPE-MBA-K%20YAMUNA-LECTURE%2 ONOTES...
- 3. https://nptel.ac.in/courses/109104068/30
- 4. https://lecturenotes.in/subject/576/professional-ethics-and-h
  uman-values-pehv
- 5. https://onlinecourses.nptel.ac.in/noc18\_mg25



#### **ENTREPRENUERSHIP DEVELOPMENT - VI**

#### **MBA II Year IV Semester**

**Course Structure** LTPC

#### 3 0 0 3

#### **TECHNOLOGY APPRECIATION AND INTELLECTUAL PROPERTY RIGHTS**

	Internal Marks: 30
Course Code: PP21MBE30	External Marks: 70

#### **Course Objectives:**

The objective of this course is to provide students with an understanding of Technology Appreciation and Intellectual Property Rights.

#### **Course Outcomes:**

- 1. To learn about technology developments.
- 2. To understand the technology transfer.
- 3. To learn about the Technology cycles.
- 4. To learn about the strategic management of intellectual property.
- 5. To learn the process of valuation of Intellectual Property.

(10 Lectures)

**UNIT I** Introduction, Definitions, Role and importance, Technology developments, implications of Technology Management, Technology change, TLC, Diffusion and Growth of Technologies - Technological Transformation alternatives, Technology Policy and Planning, Technology development-Options & Strategies, Socio-Economic planning, production functions & Technological Change, Macro effects of Technology change.

(10 Lectures)

UNIT II Technology Transfer - Models, Modes, Technology search strategy, Dimensions of Technology Transfer, Features & Routes of Technology Transfer, Technology absorption capabilities, Pricing of Technology Transfer agreements, Code of conduct for Technology transfer, Government initiative, Technology transfer and absorption process at unit level.

Page **162** of (10 Lectures)

UNIT III Technology cycles, innovation streams, Managing through cycles of technological change - Planned innovation, planned innovation systems, Market driven innovation: Commercialization of Intellectual Property: Traditional IP and Evolving IP - Assignment – Licensing – Cross License – Patent Pool – Negotiations – Defensive Publications – Technical Disclosures – Patent Pooling – Patent Trolling - Brand Management- Brand and Pricing Strategies – Patent Mining – Patent Landscaping and Patent Mapping

(10 Lectures)

**UNIT IV** Strategic Management of Intellectual Property: Defensive & Offensive Strategies – Intellectual Asset Management - Intellectual Property Audit – Identification & Grouping of Intangible Assets into Bundles - Intangible Asset Management Plan – Value Maximization Strategies – Value Extraction Strategies – Licensing Process and Management

(10 Lectures)

**UNIT V** Valuation of Intellectual Property: Need for IP Valuation – Approaches of IP Valuation – Cost Approach – Income Approach – Market Approach – Methods of IP Valuation – "25% Rule" Method - Industry Standards Methods - Ranking Method - Surrogate Methods - Disaggregation Methods - Monte Carlo Method - Real Options Methods - The CAV Method - Market Value Method -Collateralization of IPA

#### **Text Books:**

- 1. Sunita K. Sreedhararn , An Introduction to Intellectual Asset Management.
- Patrick H. Sullivan, Profiting from Intellectual Capital: Extracting Value from Innovation
- 3. Tulika Rastogi, IP Audit: Your Way to Healthy Organisation
- 4. Gordon V. Smith and Russell L. Parr, Valuation of Intellectual Property and Intangible Assets, 3rd Edition
- Bruce Berman, From Assets to Profits: Competing for IP Value and Return (Intellectual Property-General, Law, Accounting & Finance, Management, Licensing, Special Topics).

#### **Reference Books:**

- 1. Loganathan, E.T. —IPR<sup>∥</sup> (IPRS), TPIPS Agreement and Indian Laws.
- Dasgupta. S: Technology and Creativity & Creativity, Oxford University Press, New York, 1996.
- 3. Proctor. T: The Essence of Management Creativity, Prentice Hall, New Delhi, 1997.

Page **163** of

- 4. Richards. T: Creativity and Problem Solving Network, Gower, Hampshire, 1997.
- 5. Ceserani. J & Greatwood. P: Innovation & Creativity, Kogan Page, London, 1995.
- Ziman. J: Technological Innovation as an Evolutionary Process, Cambridge University Press, Cambridge, 2000

#### Web References:

- 1. https://escholarship.org/content/qt3s03932b/qt3s03932b.pdf?t=lnr4i8
- 2. https://www.icsi.edu/media/website/IntellectualPropertyRightLaws&Practice.pdf
- 3. http://www.iprcommission.org/papers/pdfs/final\_report/ciprfullfinal.pdf



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Ref: PACE / WEC / Cir / 2023-2024/02

Date: 24-08-2023

#### Circular

This is to inform all girl students (B.Tech, MBA & Diploma) that the WEC is conducting Debate and Essay Writing competition on August 26th, 2023 at the event of Women's Equality Day. Hence, interested girl students can participate and make the event a grand success.

#### **Events:**

1. Debate: In the digital era, which is more essential for women's empowerment?

#### Gender equality or Gender equity.

2. Essay Writing: Gender INequality

For further details Contact: Ms. B. Alekya (9390980343)

(Assistant Professor, ECE)

Venue : EEE Seminar Hall | Main Block | Room no: 115 Time : 11.00 a.m. to 12.00 p.m.

PRINCIPAL PACE INSTITUTE OF TECHNOLOGY & SCIENCES (AUTONOMOUS)

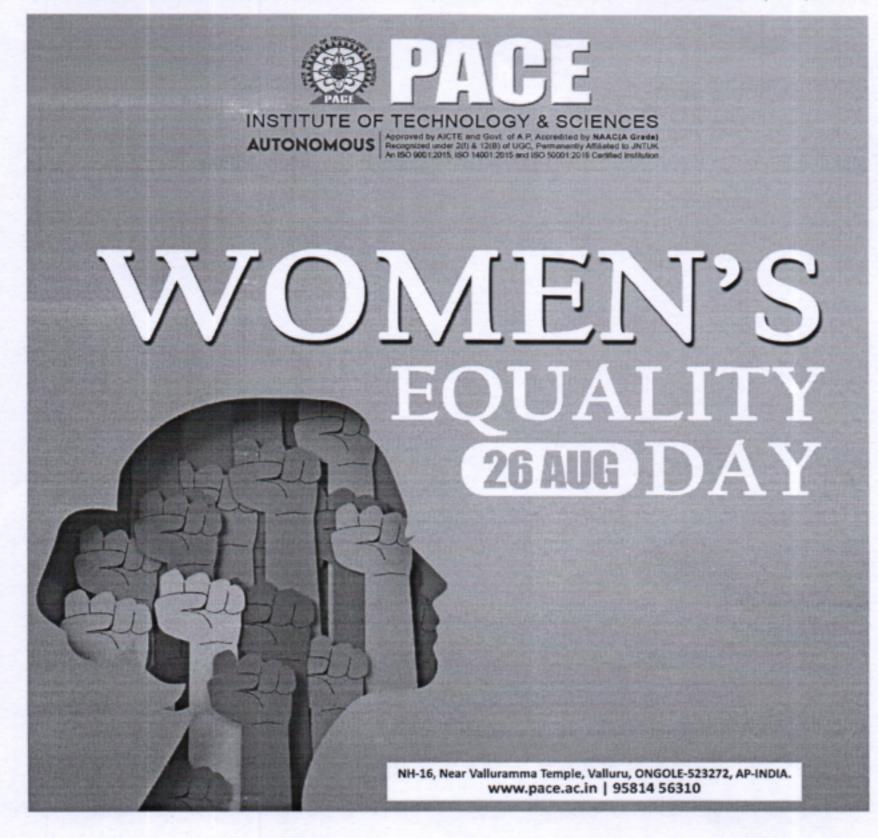
VALLUR, ONGOLE-523 272, ANDHRA PRADESH

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- 1. Secretary & Correspondent (For Information)
- 2. Polytechnic Principal for information and circulation to students.
- 3. All the HODs for circulation to students
- 4. Dean Student Affairs
- 5. A.O sir
- 6. The IOAC
- 7. Convener of the committee
- 8. Office to file
- 9. Notice Board



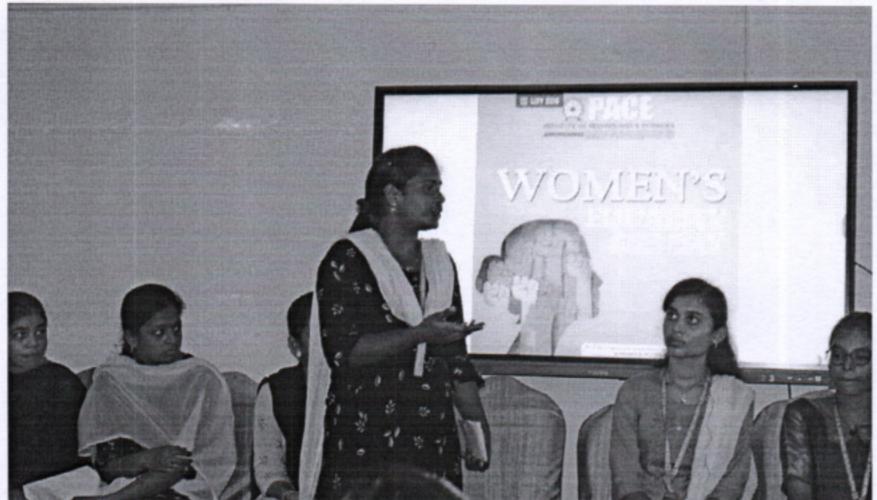
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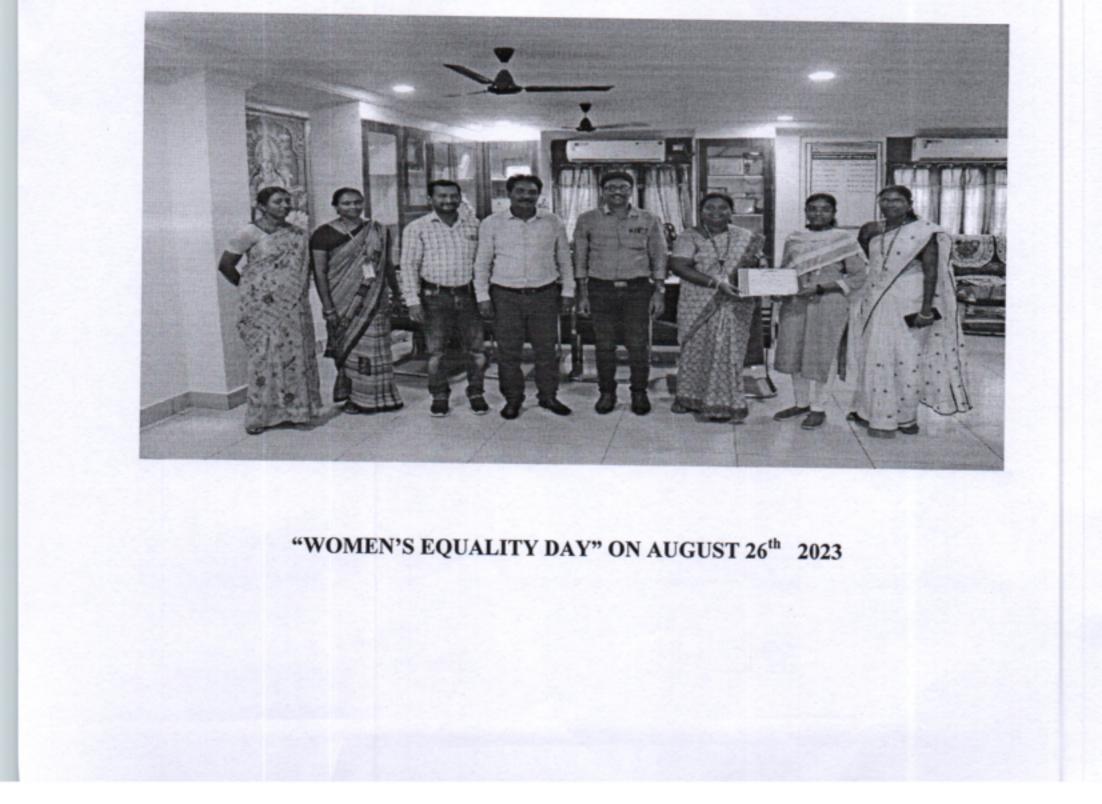






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విజేతలకు బహుమతులు అందజేస్తున్న దృశ్యం

# క్రమశిక్షణతో శ్రమించాలి

#### ప్రజాశక్తి-టంగుటూరు

విద్యార్ధులు తమ లక్ష్మసాధన కోసం (కమశిక్షణ, పట్టదలతో (శమించాలని పేస్ ఇంజినీరింగ్ కళాశాల కరస్పాండెంట్ మద్దిశెట్టి శ్రీధర్ తెలిపారు. పేస్ ఇంజినీరింగ్ కళాశాలలో ఉమెన్ ఎంపవర్ మెంట్ సెల్ ఆధ్వర్యంలో ఉమెన్ ఈక్వాలిటీ దినోత్సవ వేడుకలను సోమవారం నిర్వహించారు. ఈ సందర్భంగా (శ్రీధర్ మాట్లాడుతూ లింగ వివక్షతను అధిగమించి తమ కళాశాల విద్యార్తులు లక్ష్యాలను చేరుకుంటున్నట్లు చెప్పారు. లింగ సమానత్వమే ప్రగతికి మార్గమన్నారు. అనంతరం వ్యాసరచన, డిబేట్ పోటీలలో (పతిభ చూపిన విద్యార్థులకు మద్ధిశెట్టి (శ్రీధర్, అధ్యాపక సిబ్బంది (పశంసా పత్రాలను అందజేశారు. ఈ కార్యక్రమంలో కళాశాల (పిన్సిపల్ జివికె.మూర్తి, అడ్మిషన్స్ డైరెక్టర్ ఆర్. వీరాంజనేయులు, ఎఓ ఎం.రమణబాబు, టైనింగ్ అండ్ ఫ్లేస్ మెంట్స్ డీన్ కె.రూప ఆకాష్, డబ్ల్యుణిని కన్వీనర్ ఎన్.వైష్టవి, (పోగాం కోఆర్డినేటర్ బి.అలేఖ్య,

కళాశాల మహిళా సిబ్బంది, విద్యార్థులు పాల్గొన్నారు.



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# WOMEN EMPOWERMENT CELL

### PROGRAMME ON "WOMEN'S EQUALITY DAY"

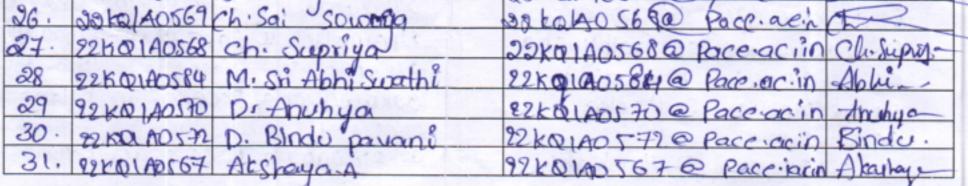
## LIST OF ASPIRANTS

YEAR: II & III

ACADEMIC YEAR: 2023-2024

DATE: 26/08/2023

S.No	Roll No	Name Of The Student	Mail id	Signature
1	21KorA05G2	Y. Karya Szee	21KOHA05G2 @Pace.gc	
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10.	21KQIA05D6		21KQLA05DG@ DACE. OC. In	ch Asusini
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12.	21KOLAOSES	sk. Sameena	21KQIAOSF5@ POR . ac' in	sk. Sameen
13.	SIKOLADSE6	1	21KQIADJEGD Pace.ac.in	
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		K. Bhuvanescuari	22 KallAO 579@ Paceacin	
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37.	22 KQ H0574		22KOLA0574@pace ac. in	Matri
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59		N. Jahpani	22 KOIA0419 @ poce. Oc. IN	
60			22×QVA0121 @ Pace.ac.	- MUHABBAR
61	22 KQIA042		22×QUA0426 @ pace.ac.i	
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70	22/02/ 2042/	O.Bhargan	22 KQ 140421 (a) pace ac in	Officia
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72	22KQIAQ84	P. Triveni.	22 KQ IA0484 @ paceacin	f. Terr
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#### Ref: PACE / Dept of WEPSHC / Cir / 2021-2022

Date: 24-05-2022

#### Circular

This is to inform all B.Tech girl students that the WEPSHC is arranging Awareness and Motivational Talk on "Ending Gender Based Violence" on May 28<sup>th</sup> 2022 at 10.30 a.m. Hence, all students participate in the program and make an event a grand success.

Principal

Copy To:

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#### ORGANIZED BY WEPSHC

### AWARENESS AND MOTIVATIONAL TALK ON "ENDING GENDER BASED VIOLENCE"



# Mr P Prasanna

M.E., M.B.A., M.I.S.T.E., Educationist and public speaker, Human resources professional, Certified PoSH & Soft skill Trainer, Tiruchirappalli

Venue: ECE Seminar Hall

<u>10:30AM</u> 2022

NH-16, Near Valluramma Temple, ONGOLE - 523 272, A.P., INDIA, Ph.: 9581456310| www.pace.ac.in





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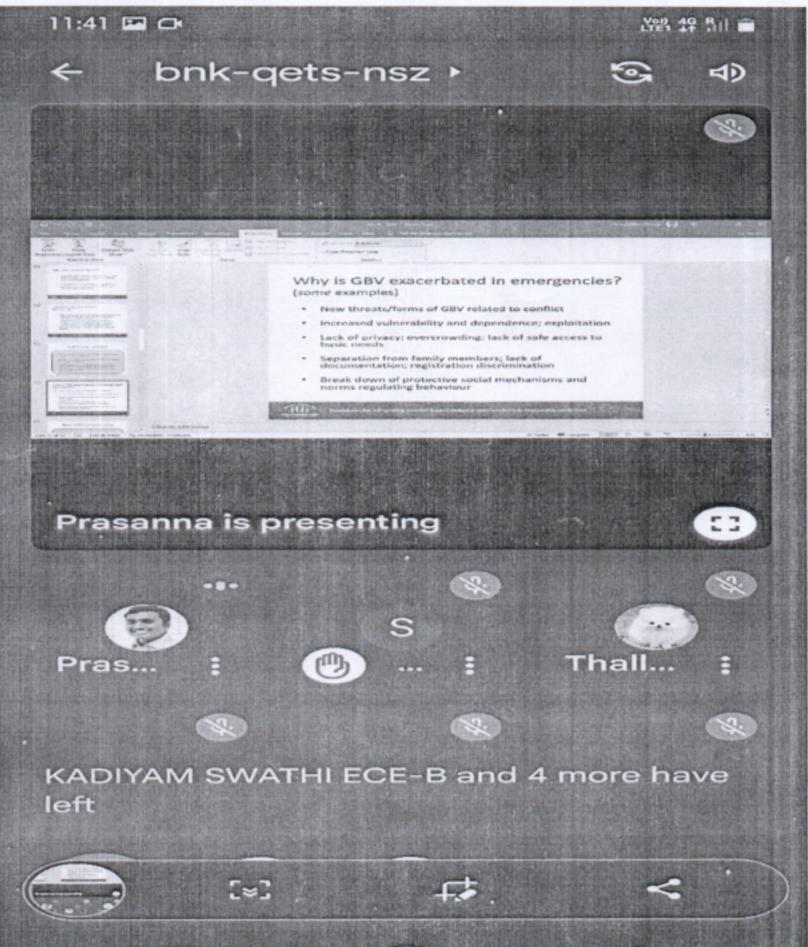


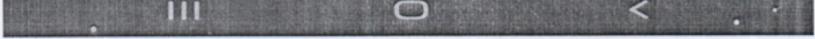
#### AWARENESS AND MOTIVATIONAL TALK ON "ENDING GENDER BASED VIOLENCE" ON 28/05/2022



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#### AWARENESS AND MOTIVATIONAL TALK ON "ENDING GENDER BASED VIOLENCE" ON 28/05/2022



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FACULTY INCHARGE





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#### Ref: PACE / Dept of WEPSHC / Cir / 2021-2022

Date: 29-03-2022

#### Circular

This is to inform all students (B.Tech, MBA & Diploma) that the WEPSHC is arranging poster presentation on April 1<sup>st</sup> 2022 at 2.30 p.m. Hence, interested students can participate in the program.

#### Themes are:

- 1. Gender Equality Per Team 2 Students.
- 2. Sexual Harassment of women at workplace Per Team 2 Students.

For further details Contact: S. ArunaSri (9391325838)

(Assistant Professor, ECE)

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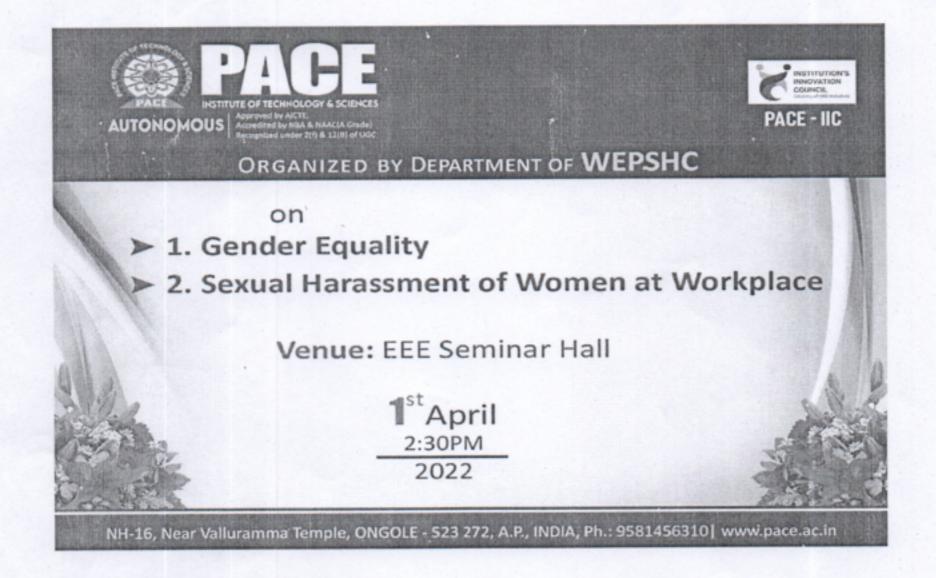
- 1. Secretary & Correspondent (For Information)
- 2. Polytechnic Principal for information and circulation to staff and students.
- 3. MBA HOD for circulation to staff and students.
- 4. First Year HODs for circulation to staff and students
- 5. All Department HODs for circulation to staff and students
- 6. Dean Student Affairs
- 7. A.O sir
- 8. Convener of the committee
- 9. Office to file
- 10. Notice Board





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#### POSTER PRESENTATION ON 01/04/2022 FOR ALL DEPARTMENT GIRLS STUDENTS



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#### WOMEN EMPOWERMENT CELL

#### POSTER PRESENTATION

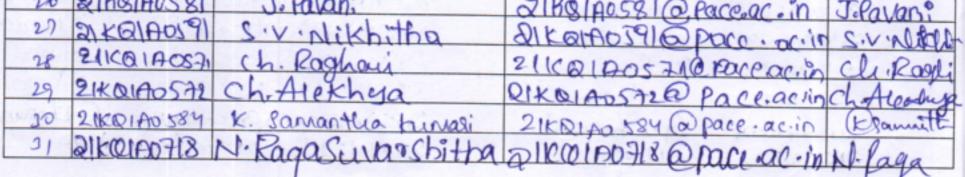
#### LIST OF ASPIRANTS

YEAR: I, II, III & IV

ACADEMIC YEAR: 2021-2022

DATE: 01//04/2022

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7	21KQ1A0.5F6	skybspena	21Kg1005F6@parc.ac.iD	sk-vascen o
8	21KQILOSD7	K. vyshnavi	21K91a05D7@Pace-acin	K. ysh navi
9	21 KOTIA 05E4	NINaga Maheswari	21×91005 ey@faccoc.in	N.Mahen
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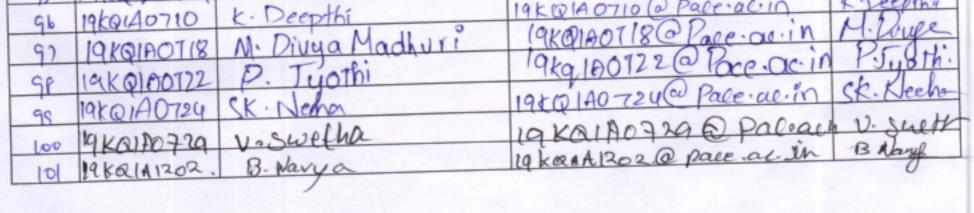
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10	2160100711	0 0 0	SIKQ 1A0711@ Pace ac.in	J. Rojo Rom
10	2160140701	A. Divya	21KoiAord@pace.ac.in	A. Divya
44	GIKNIAA 129	U.RadhaRamani	SIKO ADTRADACE ACTIN	U-Radha
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SI	21KQ1A0722		21KOLA0722@Pace.ac.in	P.POOF
52	21KO1A0723		21×01A0723 @ pace acin	Daupriya
22	21KQ1A0721	P. Rurekha	21KOHA0721@pare. ac.in	fivelche
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6)	RIKONAGIRO		TRANS124 @ pace A C.M	Megere
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65	2/KQIAUS21	M. Mahemari	21KQIADS21@pace.ac.in	MMah
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