

(Approved by AICTE & Affiliated to JNTUH) Abdullapur (V), Abdullapurmet (M), R.R Dist, 501505, Telangana, INDIA. Email: principal@knrcer.ac.in; website: www.knrcer.ac.in

7.1.9 Sensitization of Students and employees of Institution to Constitutional obligations: Values, Rights, Duties, and Responsibilities of Citizens:

S.No	EVENTS	DATE
1	World Environment Day	02-06-2023
2	Telangana Formation Day	02-06-2023
3	Awareness Program On Narcotic Drugs & Adverse Effects	03-06-2023
5	Telangana Decennial Celebrations	14-06-2023
6	Awareness Program On Cyber Crime	05-07-2023
7	National Unity Day	31-10-2023
8	National Constituion Day	26-11-2023
9	World Heart Day	29-09-2023
10	Women's Day	07-03-2024
11	Medical Camp	18-01-2024
12	Environmental Science	Every Week

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World Environment Day:



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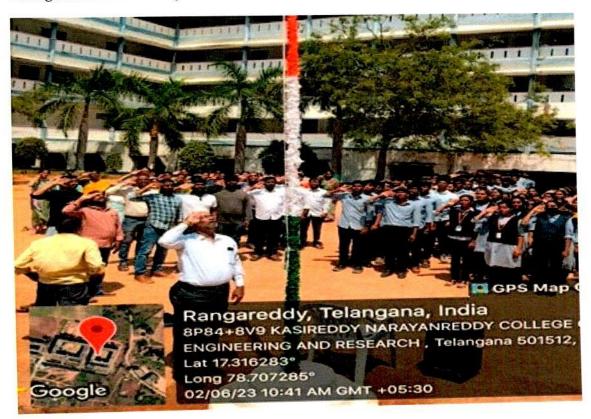


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R.R. District-501 505.



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Telangana Formation Day:



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Awareness Program On Narcotic Drugs & Adverse Effects:

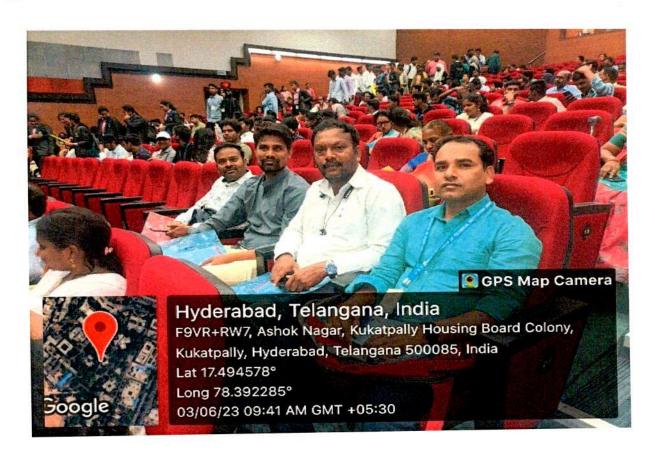


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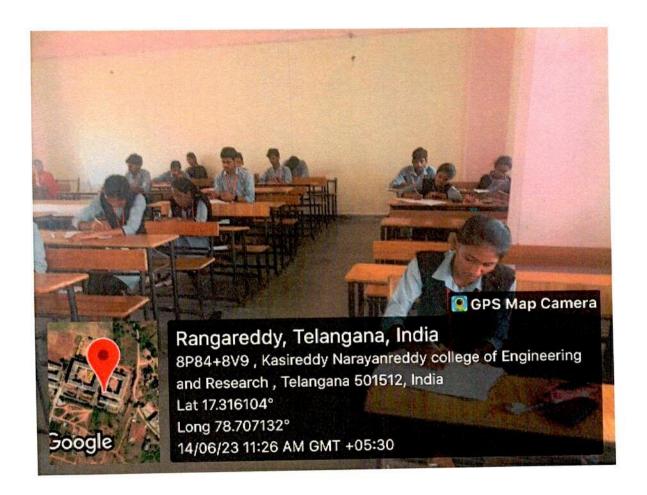




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Telangana Decennial Celebrations (Preliminary Round of Essay writing computation):



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Awareness Program On Cyber Crime:



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Abdullapur (V), Hayathnagar (M).
R.R. District-501 503.



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National Unity Day:



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Celebrating National Constitution Day:



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World Heart Day:



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Women's Day:



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Medical Camp at KNRCER:



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Environmental Science:

JNTU HYDERABAD

*MC609: ENVIRONMENTAL SCIENCE

B.Tech. III Year II Semester

L T P C

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 -

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.

PRINCIPAL

KASIREDDY NABAYAN DEDDY COLLEG

OF ENGINEERING AND RESEARCH
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JNTU HYDERABAD

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
- 3. Environmental Science by Daniel B. Botkin & Edward A. Keller, Wiley INDIA edition.
- Environmental Studies by Anubha Kaushik, 4th Edition, New age international publishers.
 Text book of Environmental Science and Technology Dr. M. Anji Reddy 2007, BS Publications.

KASIREDDY MARA OF ENGINEERING AND RESEARCH Abdullapur (V), Hayaihnagar (M). R.R. District-501 505.