



BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK

Lesson Plan of Sai Dibyashree Swami, Guest faculty in AE&I

Academic Session- 2024-2025(Winter-2024)

VISION & MISSION OF APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING DEPARTMENT

VISION OF THE DEPARTMENT:-

To produce efficient professional in applied electronics & instrumentation engineering and other allied area's with update technical knowledge to meet the challenges of society in relevant sector.

MISSION OF THE DEPARTMENT:-

- To provide the student competent in applied electronics and instrumentation engineering with societal, environmental and human values through quality education, training.
- Provide knowledge of basic science, applied mathematics, instrumentation technology and communicative skills to identify and solve problems related to Applied Electronics and Instrumentation engineering.
- To enable the students to acquire various parameter measurement and automatic control technology used for industrial automation and inculcate quality of leadership, mentorship & teamwork in collaboration with parents, alumni & industry.

PROGRAMME EDUCATIONAL OBJECTIVES:

- To provide students with a solid foundation in basic science, electrical, electronics, instrumentation and interdisciplinary subjects that is necessary to excel in professional career, entrepreneur in future and/or higher education.
- To prepare students to meet the needs and face the challenges of real life as well as industry automation and digitalization in terms of technical, economic and social feasibility.
- To inculcate professionalism, communication skills, attitudes, team work and to adapt to the current trends by engaging in lifelong learning.
- To utilize the technology in domestic, medical, industry and community for proper utilization of instrument for measurement & control.

Discipline: Applied Electronics & Instrumentation Engineering.	Semester :3rd		Name of the teaching faculty: Sai Dibyashree Swami
Subject: ENVIRONMENTAL STUDIES	No. of Days/per week class allotted: 02 periods/per week (Tue & Sat:- 1 Period each)		Semester From Date:- 22-08-2024 To Date:- 08-11-2024 No. of weeks: 10 weeks
Week	Date	No. of period available	Theory Topics
1 st	24/08/2024	01	Introduction, syllabus discussion and define the vision, mission, PEOs of the department
2 nd	27/08/2024	01	Unit-2: Natural Resources Renewable and non renewable resources
	31/08/2024	01	2.1 Natural resources and associated problems. 2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Continue...
3 rd	03/09/2024	01	Timber extraction mining, dams and their effects on forests and tribal people.
4 th	10/09/2024	01	2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought Continue....
	14/09/2024	01	Conflicts over water, dam's benefits and problems. 2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
5 th	17/09/2024	01	2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers-pesticides problems, water logging, salinity, .
	21/09/2024	01	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies. 2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.
6 th	24/09/2024	01	2.2 Role of individual in conservation of natural resources. 2.3 Equitable use of resources for sustainable life styles.
	28/09/2024	01	Unit-6: Social issues and the Environment 6.1. Form unsustainable to sustainable development 6.2. Urban problems related to energy.
7 th	01/10/2024	01	6.3. Water conservation, rain water harvesting, water shed management. 6.4. Resettlement and rehabilitation of people; its problems and concern.
	05/10/2024	01	6.5. Environmental ethics: issue and possible solutions 6.6. Climate change, global warming, acid rain, ozone layer depletion,

			nuclear accidents and holocaust, case studies.
8 th	15/10/2024	01	6.7. Air (prevention and control of pollution) Act. 6.8. Water (prevention and control of pollution) Act. 6.9. Public awareness.
	19/010/2024	01	Unit-7: Human population and the environment 7.1. Population growth and variation among nations 7.2. Population explosion- family welfare program. 7.3. Environment and human health.
9 th	22/10/2024	01	7.4. Human rights. 7.5. Value education 7.6. Role of information technology in environment and human health..
	26/10/2024	01	Revision chapter 6
10 th	29/010/2024	01	Class test
	05/11/2024	01	Revision chapter 7