

BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, CUTTACK

Lesson Plan of Jasmin Sahu, Lecturer 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 : 3 rd		Name of the teaching faculty: Jasmin Sahu
Subject: Environmental Studies	No. of Days/per week class allotted: 02 periods/per week()		Semester From Date:- 22-08-2024 To Date:- 08-11-2024 No. of weeks: 14 weeks
Week	Date	No. of period available	Theory Topics
1 st	28/08/2024	01	Introduction, syllabus discussion and define the vision, mission, PEOs of the department 1.THE MULTI-DISCIPLINARY OF ENVIRONMENTAL STUDIES 1.1 Definition, scope and importance.
2 nd	02/9/2024	01	1.2 Need for public awareness
3 rd	11/09/2024	01	3. SYSTEMS 3.1. Concept of an eco system. 3.2. Structure and function of an eco system. 3.3. Producers, consumers, decomposers.
4 th	23/09/2024	01	3.4. Energy flow in the eco systems. 3.5. Ecological succession
	25/09/2024	01	3.6. Food chains, food webs and ecological pyramids. 3.7. Introduction, types, characteristic features, structure and function of the following eco system:
5 th	30/9/2024	01	3.8. Forest ecosystem: 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
6 th	14/10/2024	01	4. Bio-diversity and its conversion 4.1. Introduction-Definition: genetics, species and ecosystem diversity. 4.2. Biogeographically classification of India.
	16/10/2024	01	4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.

7 th	21/10/2024	01	4.4. Biodiversity at global, national and local level. 4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
	23/10/2024	01	5.Environmental Studies 5.1. Definition Causes, effects and control measures of: 5.1.1 Air pollution. 5.1.2 Water pollution. 5.1.3 Soil pollution
8 th	28/10/2024	01	5.1.4 Marine pollution 5.1.5 Noise pollution. 5.1.6 Thermal pollution 5.1.7 Nuclear hazards
	30/10/2024	01	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
9 th	4/11/2024	01	5.3. Role of an individual in prevention of pollution.
	6/11/2024	01	5.4. Disaster management: Floods, earth quake, cyclone and landslides. Course completed as per the Syllabus