

20CE2702A - ENVIRONMENTAL MANAGEMENT AND AUDIT

Course Category:	Open Elective -IV	Credits:	3
Course Type:	Theory	Lecture-Tutorial-Practical:	3-0-0
Prerequisites:	Environmental Science	Continuous Evaluation:	30
		Semester End Evaluation:	70
		Total Marks:	100

Course Outcomes

Upon successful completion of the course, the student will be able to:

CO1	Illustrate basic knowledge on solid waste management	L2
CO2	Demonstrate the handling of biomedical waste and its disposal	L3
CO3	Distinguish the E-waste sources, problems, control measures and E-waste rules	L3
CO4	Outline the basic principles of EIA.	L2
CO5	Understand the activities in environmental auditing.	L2

Contribution of Course Outcomes towards achievement of Program Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2				2						2	2
CO2	2	2	2				2						2	2
CO3	3	3	3				2						3	2
CO4	2	2	2				2						2	2
CO5	2	2	2				2						2	2
Avg.	2	2	2				2						2	2
	1- Low				2-Medium				3-High					

Course Content

UNIT-1	INTRODUCTION TO SOLID WASTE MANAGEMENT Sources and types of municipal solid wastes-waste generation rates-factors affecting generation, characteristics, segregation of solid wastes – source reduction of waste – objectives of waste processing, elements of solid waste management – public role in solid waste management.	CO1
	BIOMEDICAL WASTE MANAGEMENT	
UNIT-2	Definition-Sources-Classification of biomedical waste – Objectives of Biomedical waste management-segregation-containers for biomedical waste-Labelling Collection-Transport-Disposal methods	CO2
	E-WASTE MANAGEMENT	
UNIT-3	E-waste: Sources- Types- components; Collection process- Segregation-Disposal methods; Effect on air, water and soil; Health hazards; Role of individual for E-waste management. Current E-waste Management Rules	CO3
	ENVIRONMENTAL IMPACT ASSESSMENT (EIA)	
UNIT-4	Introduction-Definition-Scope-Objectives of EIA-Basic EIA Principles, Classification of EIA-Life Cycle Assessment-Environmental Policy of India. Baseline Data Acquisition: Environmental Inventory- Rapid EIA.	CO4
	ENVIRONMENTAL AUDIT INTRODUCTION Environmental audit Significance for Industry-Elements of Environmental audit. Process of environmental audit-Pre audit- Activity -Activities at site- Post audit.	
Learning Resources		

Text Books	1. Agarwal, K.M., Sikdar, P.K., Deb., S.C (2005) A Text Book of Environment, Macmillan IndiaLimited. 2. Sharma, R.D. (1976), Organisational Management, Light and Life Publishers,
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	<p>New Delhi.</p> <p>3. Varma and Agarwal, Theory & practice of Management Forward BookDepot, NewDelhi</p>
Reference Books	<p>1. Kovntz, H and C. Danvel (1978): Essential of management, second edition, Tata Mc Graw Hillpublishing company, New Delhi.</p> <p>2. Erickson, P.A. (1977) Environmental Impact Assessment – Principles and Erickson,P.A. (1977)</p>
E-Resources & other digital material	<p><u>http://nptel.ac.in</u></p>