

TASK 5A

Based on the following information;

1. Construct an CO-PO Matrix, including the appropriate assessment tools

CODE : **ECW552**

COURSE : **EMERGING TECHNOLOGIES AND ISSUES**

At the end of the course, students should be able to:

1. have an up-to-date knowledge on recent R&D and contemporary issues related to environmental engineering.
2. undertake environmental problems identification, formulation and solution.
3. understand the professional and ethical responsibilities and commitment to sustainable development.
4. function effectively as an individual and in group with the capacity to be a leader as well as an effective team member in multi-disciplinary team.
5. undertake lifelong learning and acquire technical competency in environmental engineering.

SYLLABUS CONTENT

No	Topic	Lecture Hours
1.0	Recent research and development in environmental engineering. Cleaner production, waste minimization, integrated waste management, in-sewer processes, new technology for water and wastewater treatment.	14 hours
2.0	Global issues on environment: Population growth and over-consumption, the ozone layer and global warming, desertification, deforestation, the Earth Summit, Kyoto Protocol	14 hours
3.0	National Issues Economic progress and environmental degradation, river pollution, municipal solid waste disposal, hazardous waste disposal, recycling and reuse of waste, air pollution and industrial wastewater treatment.	14 hours
Total		42 hours

COURSE OUTCOMES – PROGRAM OUTCOMES MATRIX

COURSE CODE	ECW552	CENTRE OF STUDY	WATER RESOURCES AND ENVIRONMENTAL SYSTEMS
COURSE NAME	EMERGING TECHNOLOGIES AND ISSUES	UPDATED BY	SAT
CREDIT HOURS	3.0	DATE	13 JULY 2009

COURSE OUTCOMES	PROGRAM OUTCOMES											TEACHING METHODOLOGY	ASSESSMENT	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11			
Have an up-to-date knowledge on recent R&D and contemporary issues related to environmental engineering														
Undertake environmental problems identification, formulation and solution														
Understand the professional and ethical responsibilities and commitment to sustainable development.														
Function effectively as an individual and in group with the capacity to be a leader as well as an effective team member in multi-disciplinary team.														

RATING ON OBJECTIVE IN RELATION TO PROGRAM OUTCOMES : (1) VERY SLIGHTLY (2) MODERATELY (3) SUBSTANTIVELY

- 6. .
- 7. .
- 8.
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