Course	Code	Course Name	L-T-P-Credits		ar of luction		
CE482		ENVIRONMENTAL IMPACT ASSESSMENT	3-0-0-3	20)16		
Prerequisites: Nil							
Courseobjectives: To study the various types of environmental pollution							
• To study the impact of various types of pollutants and their assessment techniques							
 Syllabus: Pollution, Types. Air pollution-sources, effects, types of pollutants. Water pollution, characteristics of water pollutants, Solid wastes, sources, types, soil pollution, pesticide pollution. Noise pollution, Impacts, positive and negative Environmental impact assessment, steps of doing EIA, methodology adopted, EIA procedure in India, Case studies. Course Outcomes: Text Books / References: B.C Punmia, "Waste Water Engineering", Laxmi Publications Pvt. Ltd, Dr. PN Modi, "Sewage Treatment & Disposal and Waste water Engineering", Standard Book House, New Delhi John Glasson, Riki Therivel & S Andrew Chadwick "Introduction to EIA" University College London Press Limited Larry W Canter, "Environmental Impact Assessment", McGraw Hill Inc., Newyork. Mackenzie L Davis, Introduction to Environmental Engineering" Mc Graw Hill Education Peavy H S, Rowe, D.R. Tchobanaglous "Environmental Engineering" Mc Graw Hill Education Rau G J and Wooten C.D "EIA Analysis Hand Book" McGraw Hill 							
8. Robert A Corbett "Standard Handbook of Environmental Engineering" McGraw Hill							
Module		COURSE PLAN Contents		Hours	End Sem. Exam Marks %		
I	AIR P pollutan Impact o	DUCTION: Classification of Pollution OLLUTION: Primary and Secondary ts-sulfur dioxide- nitrogen dioxide, c of air pollutants on human, vegetation at t Air Quality Standards	Pollutants, air arbon monoxide,	7	15		
II	Major I	R POLLUTION: Point and Non-point So Pollutants of Water, Physical, chemica eristics of water, Water borne disease	al and biological	7	15		

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FIRST INTERNAL EXAMINATION						
ш	SOLID WASTE: Classification and sources of Solid Waste, Characteristics of Solid Waste, e waste, Radioactive wastes LAND/SOIL POLLUTION: Effects of urbanization on land degradation, Impact of Modern Agriculture on Soil, pesticide pollution, Effect on Environment	6	15			
IV	NOISE POLLUTION: Sources of Noise, Effects of Noise, measurement of noise, Equivalent sound pressure level, Control measures	6	15,			
SECOND INTERNAL EXAMINATION						
v	Impacts of pollutants, types, scale of impact-Global, local pollutants. Climate change, Ozone layer depletion, Deforestation, land degradation Environmental impact assessment, Need for EIA,	8	20			
VI	EIA Procedure-Screening, Scoping, EIA procedure in India, Impact analysis- checklists, matrix methods, overlay analysis, Case studies of EIA	8	20			
FND SEMESTER EXAMINATION						

QUESTION PAPER PATTERN (External Evaluation) :

Maximum Marks :100

Exam Duration: 3 Hrs

Part A -Module I & II : 2 questions out of 3 questions carrying 15 marks each

Part B - Module III & IV: 2 questions out of 3 questions carrying 15 marks each

Part C - Module V &VI: 2 questions out of 3 questions carrying 20 marks each

Note : 1.Each part should have at least one question from each module

2.Each question can have a maximum of 4 subdivisions (a,b,c,d)

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