

	Department of Civil Engineering
	Govt. Polytechnic for Women Rehan
	Distt Kangra (H.P.) - 176022
	LESSON PLAN
Program Name	Civil Engineering
Subject Name	Green Building and Energy Conservation
Subject Code	CEPE303
Semester	5th Semester
Subject Teacher Name	Er. Amish Rehalia

Sr. No.	Subject Name	Study	scheme	Marks in Evaluation Scheme						
		(Hrs/	Week)		Internal A	ssessment		External Assessmen)t	
	Sr. 30.	Subject Manie	Th	DCS	Th	Pr	Total	Th	Pr	Total
1	Green Building and Energy Conservation	2	t	40		40	60		60	
		O.P. G	upta, Enc	rgy Tech	nology, Kh	anna Publishing Hou	ise, New Delhi			
Reference Books		Chauha	in, DSS	reevastha	wa, S K., N	on-conventional Ene	ergy Resources, New	Age International Pu	blishers, New D	

CO - 1	Identify various requirements for green building.
CO - 2	Use different steps in environmental impact assessment.
CO - 3	Relate the construction of green building with prevailing energy conservation policy and regulations
CO - 4	Focus on criteria related to particular rating system for assessment of particular Green building.

		Name of Topic	Proposed Date	Actual Date	Remarks
		Definition of Green Building, Benefits of Green	12-08-2024		
1	Unit I: Introduction to	Components/features of Green Building, Site selection,	14-08-2024	_	
3		Site selection, Energy Efficiency, Water efficiency Material Efficiency, Indoor Air Quality.	17-08-2024		
4	Design Features	Site selection strategies Landscaping, building form,	19-08-2024		
5		Advanced passive heating and cooling techniques	21-08-2024		
6	-	Waste reduction during construction	24-08-2024		
7		Energy Audit: Meaning,	28-08-2024		
8	-	Necessity, Procedures,	31-08-2024		
9	Unit-11 Energy Audit and Environmental Impact Assessment (EIA	Types, Energy Management Programs	02-09-2024		
0		Environmental Impact Assessment (EIA):	04-09-2024		
1		Introduction, EIA regulations	07-09-2024		
2		import assessment process.	09-09-2024		
3		Steps in environmental impact assessment protection	11-09-2024		
4		Benefits of EIA, Limitations of EIA	16-09-2024		
5	-	Environmental clearance for the civil engineering	18-09-2024		
6		projects.	21-09-2024		
17	-	Renewable Energy Resources: Solar Energy, Wind Energy, Ocean Energy, Hydro Energy, Biomass	23-09-2024		
18		Energy. Non-renewable Energy Resources: Coal, Petroleum,	25-09-2024		
9		Natural Gas, Nuclear Energy, Chemical Sources of Energy, Fuel Cells, Hydrogen,	28-09-2024		
		Bio fuels.			

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Unio 10 Energy and Energy conservation	Energy conservation Introduction, Specific objectives, present scenario	30-09-2024	
	Need of energy conservation	05-10-2024	
	Need of energy conservation	07-10-2024	
	LEED India Rating System and Energy Efficiency	09-10-2024	
	LEED India Rating System and Energy Efficiency	14-10-2024	
	Class test 2	16-10-2024	
	Principles: Principles and planning of Green building	19-10-2024	
	Features. Salient features of Green Building	21-10-2024	
ř	Environmental design (ED) strategies for building constr	23-10-2024	
Build	Enveronmental quality in civil	26-10-2024	
V Creen	structure Civil Engineering Curriculum Structure 118	02-11-2024	
-	Materials: Green building materials and products- Bamboo, Rice busk ash concrete	04-11-2024	
-	Rice husk ash concrete, plastic bricks, Bagasse (Sugar	06-11-2024	
	Insulated concrete forms. Reuse of waste materials -Plastic, rubber, Newspaper wood, Nontoxic paint,	11-11-2024	
	Green rooting House test	12-14(-11-2024)	
	Introduction to (LEED) criteria,	16-11-2024	
-	Indian Green Building council (IGBC) Green rating	18-11-2024	
_	Green Rating for Integrated Habitat Assessment.	20-11-2024	
atera	Heating Ventilation Air Conditioning (HVAC) unit in	23-11-2024	
tin former	green isuiding Functions of Government organization working for Subscription and Audit(ECA)-	25-11-2024	
1	Energy course (more a course if NPC)	27-11-2024	
	Manathan Production and Renewable Energy (MNRE	30-11-2024	
	(Employed (BEE)	02-12-2024	

			Second State State State	No. (Specific No.)	
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