Name of Teacher: Ar. Noopur Tandon **Subject: A.D – V** **Semester: 5th Sem.** **Session: AUG – DEC 2025**

S. no.	Month	Week	Lecture Planned	Lecture Delivered	Name of Chapter	Contents to be taught	Remarks
1.	AUGUST	I	2		Design of an institute campus such as Architecture	LIBRARY STUDY	
		II	7			SITE ANALYSIS	
		III	5			CONCEPT	
		IV	7			DESIGNING WORK	
		V	7			DESIGNING WORK	
2.	SEPTEMBER	VI	7			PRIMARY SUBMISSION	
		VII	7			DESIGNING WORK	
		VIII	7			DESIGNING WORK	
		IX	7			DESIGNING WORK	
		X	5			**FINAL SUBMISSION**	
3.	OCTOBER	X	2		Design of Housing/ Multistory building	LIBRARY STUDY	
		XI	5			SITE ANALYSIS	
		XII	5			CONCEPT	
		XIII	2			DESIGNING WORK	
		XIV	7			DESIGNING WORK	
4.	NOVEMBER	XIV	-			PRIMARY SUBMISSION	
		XV	2			DESIGNING WORK	
		XVI	7			DESIGNING WORK	
		XVII	7			**FINAL SUBMISSION**	

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(Noopur Tandon)

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Name of Teacher : Hans Raj **Subject** BUILDING MATERIAL AND CONSTRUCTION-IV **Semester** : 5TH **Session:Aug-Dec.2025**

Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
August	1st 2nd 3rd 4th	1-7 8-15 16-23 24-31	I- Introduction	Introduction to various materials, products and hardware for false ceiling. Detailed drawings and construction details of the same. Curtain walls and Partition walls- detail drawings. Details of boundary wall and gate.	
September	1st 2nd 3rd 4th	1-7 8-15 16-23 24-31	II	Introduction to Cladding materials of Interior and Exterior walls in various materials such as Brick tiles, Stones, Vitreous tiles, Paneling etc. Detailed drawings of their fixing details. Market survey of the same is to be conducted. Basic introduction to Expansion joints and construction joints	
October	1st 2nd 3rd 4th	1-7 8-15 16-23 24-31	III	Conventions for doors and windows, types and their uses. Detail drawings of Aluminum doors and windows, Introduction to PVC and UPVC for doors, windows, ceiling etc.	
Novmber	1st 2nd 3rd 4th	1-7 8-15 16-23 24-26	IV	Timbering of trenches, shoring, underpinning, scaffolding, strutting and waling. Form-work for RCC columns, beams, slabs, walls and stairs. Introduction to Prefabrication and its Applications in various building typologies.	

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Name of Teacher : Hans Raj **Subject** STRUCTURE DESIGN-II **Semester** : 5TH **Session:Aug-Dec.2025**

Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
August	1st 2nd 3rd 4th	1-7 8-15 16-23 24-31	I- Introduction	Materials, basis properties of concrete and steel, Reinforcement, standard loading, characteristics strength, permissible stresses in Concrete and steel as per Indian Standard, Design Philosophies- Working Method, Ultimate Load, Method and Limit state Method. Limit State Design Method {as per IS: 456 (2000)} Safety and serviceability requirements, limit states, characteristic material strength and loads and partial safety factors.	
September	1st 2nd 3rd 4th	1-7 8-15 16-23 24-31	II- Calculation of moment of resistance	Calculation of moment of resistance of a simply supported beam. Design of singly reinforced rectangular simply supported beam as per IS Code. Design of one way simply supported slab. Concept of two way slab with the help of IS:456 Design of axially loaded long and short columns as per IS:456	
October	1st 2nd 3rd 4th	1-7 8-15 16-23 24-31	III- Steel Structural Elements	Classification of sections in Limit State Method, Grades of Structural Steel, Terminology & Properties. Structural Connections: Bolted connections- types of Bolts, forces in Bolts, types of Bolted joints with Sketches. Welded connections- types of welds, forces in welds, type, defects in welds.	
Novmber	1st 2nd 3rd 4th	1-7 8-15 16-23 24-26	IV- Introduction to the concept of beams	Introduction to the concept of beams, column with single RS section as per IS: 800 and handbook. Hollow sections: General Shapes (Hot Rolled & Cold Form) and advantages & Applications.	

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Department of Architecture
GOVT.POLYTECHNIC SUNDERNAGAR

LESSON PLAN

Program Name	Architecture Assistantship
Subject Name	P.E.-III (EARTHQUAKE RESILIENT BUILDINGS)
Subject Code	ARPE– 5005.iii
Semester	FIFTH
Subject Teacher Name	BANDNA DIXIT

Evaluation Scheme

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1	PE-III	3	0	40	0	40	60	0	100

Reference Books	Earthquake Tips by C.V.R.Murty
	Repair and Seismic strengthening of buildings

Course Outcomes (COs)

CO – 1	To know the causes and consequences of earthquakes
CO – 2	know about the design concepts of earthquake resisting buildings. To understand the various retro fitting and restoration techniques

Teaching Plan

Chapters	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-I	introduction to various topics given in syllabus	01-08-2025		
	Basics of earthquake phenomena	04-08-2025		
	Causes Earthquake	07-08-2025		
	Causes Earthquake	08-08-2025		
	Seismic Waves	11-08-2025		
	Seismic Waves	14-08-2025		
	Magnitude and Intensity	18-08-2025		
	Seismic Zones in India	21-08-2025		
	Seismic Effects on Structures	22-08-2025		
	Seismic Effects on Structures	25-08-2025		
	Seismic Design Philosophy for Buildings.	29-08-2025		
	Seismic Design Philosophy for Buildings.	30-08-2025		
UNIT-II	Seismic Effects On Structures	01-09-2025		
	Seismic Effects On Structures	04-09-2025		
	Buildings Ductility and their Earthquake Response	05-09-2025		
	Buildings Ductility and their Earthquake Response	08-09-2025		
	Buildings Ductility and their Earthquake Response	11-09-2025		
	Buildings Ductility and their Earthquake Response	12-09-2025		
	Buildings Ductility and their Earthquake Response	15-09-2025		
	Indian Seismic Codes.	18-09-2025		
	Indian Seismic Codes.	19-09-2025		
	Indian Seismic Codes.	22-09-2025		