

Department of Architecture Assistantship
Govt. Polytechnic for Women Rehan
Distt. – Kangra (H.P.) - 176022



LESSON PLAN

Program Name	Architecture Assistantship
Subject Name	Applied Sciences
Subject Code	ARBS – 1004
Semester	First
Subject Teacher Name	Mr. Gopal Sharma & Mr. Kailash Singh

Evaluation Scheme

Sr. No.	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
		Th	Pr	Internal Assessment			External Assessment		
				Th	Pr	Total	Th	Pr	Total
1.	Applied Physics Applied Chemistry	3	-	40	-	40	60	-	100
Reference Books		Text book of Chemistry for class XI & XII (Part- I & Part –II) ; NCERT Delhi 2017-18 Jain & Jain Engineering Chemistry, Dhanpat Rai and Sons New Delhi 2015.							

Course Outcomes (COs)

CO – 1	The basic concepts of force and its application in the field of Architecture.
CO – 2	The techniques of making sound proof buildings by studying the acoustical treatment of the building
CO – 3	The various types of materials available in the market in construction field and their uses and applications.

Teaching Plan

Unit No.	Name of Topic	Proposed Date	Actual Date	Remarks
	Fundamental and derived Physical quantities with their units. Dimensional formula and dimensional equations	13/08/2024 & 20/08/2024		
	Principal of homogeneity. Uses of dimensional analysis.	22/08/2024 & 27/08/2024		
2	Force and Motion: Definition of force, Resolution of forces into two component form.	29/08/2024 & 03/09/2024		
	Linear momentum, Impulse, Conservation of linear momentum	05/09/2024 & 10/09/2024		
	Class Test-I	12/09/2024		
	Numerical Problems	17/09/2024		
	Four forces in nature (Gravitational, Electromagnetic, weak and strong forces)	19/09/2024 & 24/09/2024		
3	Temperature and its measurement: Definition of heat and temperature	26/09/2024 & 01/10/2024		

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	Different scale of temperature, conversion of temperature in different scale (simple problems)	03/10/2024, & 08/10/2024	
	Criteria for selection of a thermometer.	10/10/2024 & 15/10/2024	
	Class Test-2	22/10/2024	
	Thermal expansion of solids, Linear, superficial and cubical expansions.	29/10/2024 & 05/11/2024	
	Acoustics of buildings: Conditions for pleasant effect of sound in big hall or auditorium	07/11/2024	
4	House Test	12/11/2024	
	Echo, Reverberation, reverberation times and simple problems on reverberation time	14/11/2024 & 19/11/2024	
5	Work, Power, Energy: Definition of work, power, energy and their units. Work energy theorem and simple numerical.	21/11/2024 & 26/11/2024	
	PART B-APPLIED CHEMISTRY	28/11/2024	
1	Metals Properties and uses of copper, Aluminum, iron and steel	22/08/2024	
	Corrosion: Meaning of corrosion, Electrochemical theory of corrosion	29/08/2024	
	prevention of corrosion by various methods	05/09/2024	
	Polymers & Adhesives		
	Polymer and Polymerization, Degree of Polymerization,	12/09/2024	
	Classification of polymers-on the basis of origin, synthesis.	19/09/2024	
	type of monomers and molecular forces. Natural rubber,	26/09/2024	
2.	Vulcanization of rubber and synthetic rubber.	03/10/2024	
	Plastics, Additives of plastics and applications of plastics.	10/10/2024	
	Adhesives and its brief classification.	24/10/2024	
3	Paints & Varnishes Constituents of Paints, Characteristics of paints	07/11/2024	

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	Constituents and, Characteristics of varnishes, Enamel and its constituents	14/11/2024	
	Uses of paints, varnishes and enamels.	21/11/2024	
	Revision of Syllabus	28/11/2024	

Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-1 and Unit-2	27/09/2024		
A-2	Unit-3 and Unit-4	24/10/2024		
A-3	Unit-5	19/11/2024		

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1 and Unit-2	As per HPTSB Academic Schedule		
Class Test -2	Unit-3 and Unit-4			
House Test - 1	Unit-1, Unit-2, Unit-3 and Unit-4			


 (Signature of Teacher)


 (Signature of HOD)

Approved


 Principal

Govt. Polytechnic for Women Rehan