Department of Applied Sciences & Humanities Govt. Polytechnic for Women Rehan Distt. – Kangra (H.P.) - 176022



LESSON PLAN

Program Name	ARCHITECTURE
Subject Name	ARCHITECTURE MATHEMATICS
Subject Code	ARBS - 2005
Semester	2 nd
Subject Teacher Name	Sandeep Kumar

Evaluation Scheme

		Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
Sr. No. Subject N	Subject Name			Internal Assessment		External Asses		ssment	
		Th	DCS	Th	Pr	Total	Th	Pr	Total
1.	ARCHITECTURE MATHEMATICS	3	2	40		40	60	*	60
Reference Books		Publishers, New Delhi, 40th Edition, 2007							
		(vi) S.S. Sabharwal, Sunita Jain, Eagle Parkashan, Mathematics, Vol. I & II, Jalandhar.						Applied	

Course Outcomes (COs)

Course Of	atcomes (COs)
CO - 1	The students are expected to acquire necessary background in Trigonometry to appreciate the importance of the geometric study as well as for the calculation and the mathematical analysis.
CO - 2	The students are expected to acquire necessary background in Determinants and Matrices so as to appreciate the importance of the Determinants are the factors that scale different parameterizations so that they all produce same overall integrals, i.e. they are capable of encoding the inherent geometry of the original shape.
CO - 3	The students are able to solve the basic problems of Differentiation and Integration.

Teaching Plan

-	Name of Topic	Proposed Date	Actual Date	Remarks
	Introduction of Matrices & Determinants	29/01/2024		
	Doubt Clearing Session	30/01/2024		
	Matrices	31/01/2024	AND STREET, SALES AND STREET, SALES	
UNIT-I		01/02/2024		
	Doubt Clearing Session	02/02/2024		
	Algebra of matrices	05/02/2024		
	Doubt Clearing Session	06/02/2024		
	Determinants	07/02/2024		
		08/02/2024		
	Doubt Clearing Session	09/02/2024		



	Determinants	12/02/2024	
	Doubt Clearing Session	13/02/2024	
	Value of determinants of	14/02/2024	
	2nd& 3rd order	15/02/2024	
	Doubt Clearing Session	16/02/2024	
	Value of determinants of $\frac{19/02/20}{}$		
	2nd& 3rd order		
	Doubt Clearing Session	20/02/2024	
	Crammers rule for solving	21/02/2024	
Matrices and	two variables and three	22/02/2024	
Determinants	variables linear equations	22/02/2024	
Determinants	Doubt Clearing Session	23/02/2024 26/02/2024	
		27/02/2024	
	Adjoint & Inverse of a	28/02/2024	
	matrix	29/02/2024	
	Doubt Clearing Session	29/02/2024	
	Matrix inverse method to	01/03/2024	
	solve a system of linear	04/03/2024	
	equations in two and three	04/03/2024	
	variables	05/03/2024	
LINITE II	Doubt Clearing Session	03/03/2024	
UNIT-II	Introduction of Vector	06/03/2024	
	Algebra	07/03/2024	
	Notation and rectangular	11/03/2024	
	resolution of a vector	12/03/2024	
	Doubt Clearing Session Addition and subtraction of		
		13/03/2024	
	vectors. Scalar and vector products		
	of 2 vectors.	14/03/2024	
	Doubt Clearing Session	15/03/2024	
	Concept of angles in		
	Trigonometry	18/03/2024	
Vector Algebra	Class Test-1	19/03/2024	
and Trigonometry	Measurement of angles in	20/03/2024	
		21/03/2024	
	degrees	22/03/2024	
	Doubt Clearing Session	26/03/2024	
	Grades and radians and	27/03/2024	
	their conversions.	28/03/2024	
	T-Ratios of Allied angles		
		01/04/2024	
	(without proof)	02/04/2024	
	Doubt Clearing Session T-Ratios of Allied angles	03/04/2024	
		04/04/2024	
	(without proof)		
	Doubt Clearing Session	05/04/2024	
	Graphs of Sin x, Cos x and	08/04/2024	
	Tan x.		



	Doubt Clearing Session	09/04/2024	
UNIT-III	Important formulae of	10/04/2024	
	Differentiation		
		12/04/2024	
	Doubt Clearing Session	16/04/2024	
	Rules for Differentiation	18/04/2024	
	Class Test-2	19/04/2024	_
Differential	Differentiation of sum,		
Calculus	product and quotient of	22/04/2024	
	functions.		
	Doubt Clearing Session	23/04/2024	
	Differentiation of sum,	24/04/2024	
	product and quotient of	25/04/2024	
	functions.	25/04/2024	
	Doubt Clearing Session	26/04/2024	
UNIT- IV	Integration as inverse		
CIVIT-17	operation of differentiation	29/04/2024	
	Doubt Clearing Session	30/04/2024	
	Simple integration by		
	substitution	01/05/2024	
	Simple integration by parts	02/05/2024	
	Doubt Clearing Session	03/05/2024	
	Simple integration by parts	06/05/2024	
Integral Calculus	Doubt Clearing Session	07/05/2024	
integral Calculus	Simple integration by	08/05/2024	
	partial fractions (for linear	09/05/2024	
	factors only).	12/05/2024	
	factors offiy).	13/05/2024	
	House Test	То	
	Tiouse rest	15/05/2024	
	Simple integration by		
	partial fractions (for linear	16/05/2024	
	factors only).		
	Doubt Clearing Session	17/05/2024	
UNIT-V	Surface area and volume of		
ONTI- V	solid shapes (cube, cuboid,		
	sphere, right circular	20/05/2024	
	cylinder, right circular	-	
	cone).		
Mensuration	Doubt Clearing Session	21/05/2024	
	Surface area and volume of		
	solid shapes (cube, cuboid,		
	sphere, right circular	22/05/2024	
	cylinder, right circular	23/05/2024	
	cone). Doubt Clearing Session	24/05/2024	
	Doubt Clearing Session	27/UJ/2U27	





Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-1	04/03/2024		
A-2	Unit-2	05/04/2024		
A-3	Unit-3	06/05/2024		

House Test/Class Test

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

Approved

Govt. Polytechnic for Women Rehan Distt. Kangra (H.P.)

(Signature of Teacher)

(Signature of HOD)