

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

LESSON PLAN

Program Name	Civil Engineering	
Subject Name	Mathematics-I	
Subject Code	BS101	
Semester	1 st	
Subject Teacher Name	Sandeep Kumar	

Evaluation Scheme

		S	tudy		Mar	ks in Eva	aluatio	n Scheme	
Sr. No.	Subject Name	San Street	heme /Week)		Intern ssessm		Exte	rnal Asse	ssment
		Th	DCS	Th	Pr	Total	Th	Pr	Total
1.	Mathematics-I	3	2	40	-	40	60	-	60
Defer	ence Books	(i)				Engineeri 0th Editio		hematics,	Khanna
Kelei	ence Books	(ii)				a Jain, E , Jalandha		arkashan,	Applied

Course Outcomes (COs)

CO – 1	To understand 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	To understand the ability to find the effects of changing conditions on a system.
CO – 3	The students are able to learn the Complex numbers enter into studies of physical phenomena in ways that most people cannot imagine.
CO – 4	The partial fraction decomposition lies in the fact that it provides an algorithm for computing the anti derivative of a rational function.

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-1	Introduction of Trigonometry	01/08/2024		
	Doubt Clearing Session	02/08/2024		
	Concept of angles.	03/08/2024		
Trigonometry	Measurement of angles in degrees, grades and radians and their conversions	05/08/2024 07/08/2024		
	Doubt Clearing Session	08/08/2024		
	T-Ratios of Allied angles (without proof),	09/08/2024 12/08/2024		
	Doubt Clearing Session	14/08/2024		







0//10//024	complex number	
700007	Modulus and amplitude of a	
05/10/2024	Doubt Clearing Session	
04/10/2024	Conjugate of a complex number.	
03/10/2024	Doubt Clearing Session	
30/09/2024	number and its conversion from one form to other	
27/09/2024 28/09/2024	Polar and Cartesian, representation of a complex	OLULI TITL
26/09/2024	Doubt Clearing Session	III TINI
25/09/2024	Complex number	
21/09/2024 23/09/2024	Definition, real and imaginary parts of a	
20/09/2024	Doubt Clearing Session	
19/09/2024	Logarithmic differentiation	
18/09/2024	trigonometric functions,	
13/09/2024	Differentiation of	
12/09/2024	Doubt Clearing Session	
11/09/2024	Class Test-1 (As per HPTSB schedule)	*
07/09/2024 09/09/2024	Differentiation of function of a function.	
06/09/2024	Doubt Clearing Session	Calculus
04/09/2024 05/09/2024	Differentiation of sum, product and quotient of functions.	Differential
02/09/2024	Doubt Clearing Session	Y
31/08/2024	Differentiation by definition.	
30/08/2024	Doubt Clearing Session	
29/08/2024	Definition of function; Concept of limits. Four standard limits.	UNIT-II
28/08/2024	Doubt Clearing Session	
23/08/2024 24/08/2024	T- Ratios of multiple angles, sub-multiple angles (2A, 3A, A/2).	
22/08/2024	Doubt Clearing Session	
19/08/2024 21/08/2024	n of product ce and vice	
16/08/2024 17/08/2024	Sum, difference formulae and their applications (without proof).	
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			Algebra
proof) for positive integral index (expansion and general form). Doubt Clearing Session Binomial theorem for any index (expansion without proof) First and second binomial approximation with applications to engineering	Value of P(n,r) and C(n,r). House Test Doubt Clearing Session	Doubt Clearing Session To resolve proper fraction into partial fraction with denominator containing non-repeated linear factors Repeated linear factors	Modulus and amplitude of a complex number. Doubt Clearing Session Class Fest-2 (As per HPTSB schedule) Addition, Subtraction, Multiplication and Division of a complex number. Doubt Clearing Session De-movier's theorem, its application. Definition of polynomial fractions and definition of partial fractions.
18/11/2024 20/11/2024 21/11/2024 22/11/2024 22/11/2024 23/11/2024 25/11/2024 27/11/2024 28/11/2024 29/11/2024 30/11/2024	08/11/2024 11/11/2024 16/11/2024 14/11/2024	26/10/2024 01/11/2024 02/11/2024 04/11/2024 06/11/2024	





Assignments

Assignment	Contents of Syllabus Covered	Proposed Date	Actual Date	Remark
0.0		09/09/2024		
1.1	1/1111			
1.7	1 nit-2	04/10/2024		
7.1	U. 4 5 5 7 90	150511155		
7.7	Unit-3	22/11/2024		

House Test/Class Test

Name of test

Syllabus for Tests

Actual

Remarks

Proposed
Date
As per
HPTSB
Academic
Schedule

Class Test -1 Class Test -2

Unit-2

House Test - 1

Unit-1, Unit-2 and Unit-3

(Signature of Teacher)

(Signature of HOD)

Principal (Principal Covt.)

Rehan Distt. Kangra (H.P.)