



Govt. Polytechnic Hamirpur (H.P.)

Lesson Planning (Theory)

Branch : Electrical Engg.

Semester : Second

Subject : Mathematics-II

Session : 27th January 2024- 25th May2024

Teacher: Subhash Chand

Class Room:

Proposed Lesson Plan:

Period:27/01/24 to 25/05/24				Total Lectures Planned: 75		
S. No.	Week	No. of Lectures	Chapter/ Unit Description	Detail of Contents	Reference Resources	Remarks
1	5th Jan.	2	Algebra	Introduction to Mathematics-II Introduction to determinants Elementary properties of determinants upto 3rd order Consistency of equations & Crammer's rule. Algebra of matrices, Inverse of a matrix, Matrix inverse method to solve a system of linear equations in 3 variables.	R1,R2 & R3	
	1st Feb.	3				
	2nd Feb.	4				
	3rd Feb.	5				
2	4th feb.	4	Integral calculus	Simple Integration by substitution method, by parts, by partial fractions (for linear factors only). Use of formulas: $\int_0^{\pi} \sin^n x dx$ $\int_0^{\pi} \cos^n x dx$ $\int_0^{\pi} \sin^n x \cos^m x dx$ Class Test -I Applications of integration: Simple problem on evaluation of area bounded by a curve and axes. Calculation of Volume of a solid formed by revolution of an area about axes.	R1,R2 & R3	
	5th Feb.	3				
	1st Mar.	2				
	2nd Mar.	3				
	3rd Mar.	5				
	4thMar.	5				
	5th Mar.	3				
3	1st April	5	Co-Ordinate Geometry	Equations of straight line in various standard forms (without proof), inter section of two straight lines, angle between two lines, Perpendicular distance formula. General equation of a circle and its characteristics, To find the equation of a circle, given: Centre and radius, Class Test -II Three points lying on it , Coordinates of end points of diameter.	R1,R2 & R3	
	2nd April	3				
	3rd April	4				
	4th April	5				

	5th April	2		Definition of conics (Parabola, Ellipse, Hyperbola) their standard Equations without proof.		
	1st May	3		Problems on conics when their foci, directrices and vertices are given.		
4	2nd May	3	Differential Equations	Solution of first order and first degree, differential equation by variable separable method (simple problems). Revision of Whole syllabus.	R1,R2 & R3	
	3rd May	5				
	4th May	4				

Reference Resources

- R1 Eagle Prakashan by Satish Kumar Sharma
- R2 Dr. RD Sharma Applied mathematics
- R3 B.S. Grewal Higher Engineering Mathematics


Signature of Teacher with Date


Signature of H.O.D. with Date



Govt. Polytechnic Hamirpur (H.P.)
Practical Planning & Coverage

Branch : *Electrical Engg.*
Subject : *SCA*
Teacher: *Subhashchand Nibha Sharma*

Semester : Second
Session : 27th January 2024- 25th May 2024
Laboratory: Student Central Activities

Proposed Lesson Plan:

Pract. No.	Description of Practical/Activity	Reference for Procedure	Likely Dates	Actual Dates	Signature
1	Awareness regarding voting		5th week of January, 1st and 2nd week of Feb.		
2	Painting/Poster Making		3rd, 4th and 5th week of Feb.		
3	Sports/Cultural activity		1st, 2nd and 3rd week of March		
4	Quiz/Essay Writing		4th, 5th week of March and 1st week of April		
5	Campus beautification/Plantation		2nd, 3rd, 4th and 5th week of April		
6	Minor Project (Recycling/Waste material use)		1st, 2nd, 3rd and 4th week of May		

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Signature of Teacher

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Signature of H.O.D.