LESSON PLAN FOR SUMMER SEMESTER(2023-24)

Discipline : 1ST Semester(common)

Name of the Faculty: SAMIRA KUMAR PATHI (Lect. in Mathematics)

Subject: Engg. Mathematics-I	5 therory & 1 tutorial classes per week	From: 16.08.2023 To: 11.12.20 No. of Weeks: 14 Total no. periods : 80 T)23		
Week	Class Day	Theory	Range		
	1st	Matrix and Determinant a) Introduction and Tyoes of Matrix	16-08-2023 TO 19/08/23		
1st	2nd 3rd 4th	Tyoes of Matrix Algebra of matrix Tuitorial class			
	1st	Algebra of matrix			
	2nd	Determinant			
0:1	3rd	Determinant	21-08-2023		
2nd	4th	Properties of determinant	TO 26/08/23		
	5th	Properties of determinant	1		
	6th	Tuitorial class	-		
	1st	Properties of determinant			
	2nd	Inverse of a matrix (second and third order)			
	3rd	Inverse of a matrix (second and third order)	28-08-2023 TO 02/09/24		
3rd	4th	Inverse of a matrix (second and third order)			
	5th	Cramer's Rule (Question should be on two variables)			
	6th	Tuitorial class			
	1st	Cramer's Rule (Question should be on two variables)			
	2nd	Cramer's Rule (Question should be on two variables)			
4th	3rd	Solution of simultaneous equations by matrix inverse method	04/09/23 TO 09/09/23		
	4th	Solution of simultaneous equations by matrix inverse method	07/07/23		
	5th	Solution of simultaneous equations by matrix inverse method			
	6th	Tuitorial class			
5†h	1st	TRIGONOMETRY Trignometrical Ratios			
	2nd	Trignometrical Ratios	11/09/23 TO 16/09/23		
	3rd	Trignometrical Ratios			
	4th	Trignometrical Ratios	10,07,20		
	5th	Trignometrical Ratios]		
	6th	Tuitorial class			

6th	1st	Compound angles, multiple and sub-multiple angles	
	2nd	Compound angles, multiple and sub-multiple angles	
	3rd	Compound angles, multiple and sub-multiple angles	18/09/23 TO
	4th	Compound angles, multiple and sub-multiple angles	23/09/23
	5th	Define inverse circular functions and its properties	
	6th	Tuitorial class	
	1st	Define inverse circular functions and its properties	
	2nd	Compound angles, multiple and sub-multiple angles	
7th	3rd	Define inverse circular functions and its properties	25/09/23 TO
	4th	Define inverse circular functions and its properties	30/09/23
	5th	Define inverse circular functions and its properties	
	6th	Tuitorial class	
	1st	CO-ORDINATE GEOMETRY IN TWO DIMENSIONS Introduction of geometry in two dimension	
	2nd	Distance formulae, division formulae, area of a triangle	
8th	3rd	Distance formulae, division formulae, area of a triangle	02/10/23 TO 07/10/23
	4th	Define slope of a line, angle between two lines	
	5th	condition of perpendicularity and parallelism.	
	6th	Tuitorial class	1
	1st	i) One point form (ii) two point form (iii) slope form	
9th	2nd	Different forms of straight lines (only formulae) (iv) intercept form (v) Perpendicular form	
	3rd	Equation of a line passing through a point and (i) parallel to a line	09/10/23 TO 14/10/23
	4th	Equation of a line passing through a point (ii) Perpendicular to a line	
	5th	Equation of a line passing through the intersection of two lines	
	6th	Tuitorial class	

10th	1st	Equation of a line passing through the intersection of two lines		
	2nd	Equation of a line passing through the intersection of two lines	16/10/23 TO 20/10/23	
	3rd	Distance of a point from a line	20/10/23	
	4th	Distance of a point from a line		
	5th	Distance of a point from a line		
	T	DASAHARA VACATION CIRCLE	T	
	1st	Fauation of a circle center radius form		
	2nd	Equation of a circle center radius form		
11th	3rd	general equation of a circle	30/10/23 TO	
	4th	general equation of a circle	04/11/23	
	5th	general equation of a circle		
	6th	Tuitorial class		
	1st	Equation of a circle end point of diameter form		
	2nd	Equation of a circle end point of diameter form		
12th	3rd	Equation of a circle passing through three points	06/11/23 TO 11/11/23	
	4th	CO-ORDINATE GEOMETRY IN THREE DIMENSIONS INTRUDUCTION		
	5th	Distance formulae		
	6th	Tuitorial class		
	1st	section formulae		
	2nd	direction ratio, direction cosine		
	3rd	direction ratio, direction cosine	13/11/23 TO 18/11/23 y	
13th	4th	angle between two lines		
	5th	condition of parallelism and perpendicularity		
	6th	Tuitorial class		
	1st	condition of parallelism and perpendicularity		
	2nd	Equation of a plane i) General form		
1 <i>4</i> th	3rd	angle between two planes	20/11/23 TO	
14111	4th	angle between two planes	25/11/23	
	5th	perpendicular distance of a point from a plane		
	6th	Tuitorial class		
15th	1st	perpendicular distance of a point from a plane		
	2nd	equation of a plane passing through a point and i) parallel to a plane equation of a plane passing through a point and]	
	3rd	equation of a plane passing through a point and i) parallel to a plane equation of a plane passing through a point and	27/11/23 TO 02/12/23	
	4th	ii) perpendicular to a plane	-, -, -, -, -	
	5th	equation of a plane passing through a point and ii) perpendicular to a plane]	
	6th	Tuitorial class	1	
	1 0111	Tonona class	<u> </u>	

	1st	SPHERE Equation of a sphere i) center radius form	
	2nd	Equation of a sphere in General form	
16th	3rd	3rd Equation of a sphere in General form	
	4th	Equation of a sphere in two end points of a diameter form	09/12/23
	5th	Equation of a sphere passes through four points	
	6th	Tuitorial class	
1 <i>7</i> TH	1ST	DISCUSSION OF PREVIOUS YEAR QUESTION	11-12-2023

SI. No.	Subject	Unit	Topic	Periods
Α	Algebra	1	Matrices and Determinant	18
В	Trigonometry	2	Trigonometry	15
C Two Dimensiona Geometry		3	Co-ordinate Geometry in Two Dimensions (Straight	13
		4	Line) Circle	07
D	Three Dimensional	5	Co-ordinate Geometry in Three Dimensions	15
	Geometry	6	Sphere	07
	-		TOTAL	75