LESSON PLAN FOR SUMMER SEMESTER(2021-22)							
Discipline : 2nd Semester(common)							
Name of the Faculty: SAMIRA KUMAR PATHI (Lect. in Mathematics)							
Subiect: Enga.	5 therory & 1	From: 14.03.2022 To: 18.06.2022					
Mathematics-II	tutorial classes	No. of Weeks: 14 Total no. periods : 70 Theory -	+ 14 Tuitorial				
	per week		T				
Week	Class Day	Theory	Range				
	let	VECTOR ALGEBRA					
	131	a) Introduction					
		Types of vectors (null vector, parallel vector ,					
	2nd	collinear vectors)	14.03.2022				
1st		(in component form)	TO				
	3rd	Representation of vector	20.03.2022				
	4th	Magnitude and direction of vectors					
	5th	Addition and subtraction of vectors					
	6th	Tuitorial class					
	1st	Position vector					
	2nd	Scalar product of two vectors	01.00.0000				
	3rd	Geometrical meaning of dot product	21.03.2022 TO 27.03.2022				
2nd	4th	Angle between two vectors					
	5th	Angle between two vectors					
	6th	Tuitorial class					
	1st	Scalar and vector projection of two vectors	28.03.2022 TO 03.04.2022				
	2nd	Scalar and vector projection of two vectors					
	3rd	Vector product and geometrical meaning					
3rd	4th	Area of trianale and paralleloaram					
	5th	Area of trianale and paralleloaram					
	6th	Tuitorial class					
	0111						
	1st	a) Definition of function based on set theory					
			04.04.2022 TO 10.04.2022				
		i) Constant function					
	2nd	ii) Identity function					
		iii) Absolute value function					
4th		iv)The Greatest integer function					
		v) Trigonometric function vi)					
	3rd	Exponential function					
		vii) Loggrithmic function					
	4th	Introduction of limit					
	.5th	Introduction of limit					
	6th						
	1.4	Evistance of limit	+				
5th	151 2nd	EXISTENCE OF IIITIII	11.04.2022 TO 17.04.2022				
	211U 2rd	Methods of evaluation of limit					
	31U 1+h	Methods of evaluation of limit					
	4111 5+h	Methods of evaluation of limit					
	6th	l uitorial class					

6th	1st	Definition of continuity of a function at a point	
	2nd	Definition of continuity of a function at a point	
	Qual	DERIVATIVES	18.04.2022
	310	Derivative of a function at a point	TO
	4th	Derivative of a function at a point	24.04.2022
	5th	Algebra of derivative	
	6th	Tuitorial class	
	1st	Algebra of derivative	
7th	2nd	Derivative of standard functions	
	3rd	Derivative of standard functions	25.04.2022 TO 01.05.2022
	4th	Derivative of standard functions	
	5th	Derivative of standard functions	
	6th	Tuitorial class	
	1st	Derivative of composite function (Chain Rule)	
	2nd	Derivative of composite function (Chain Rule)	
	3rd	Derivative of composite function (Chain Rule)	
011	4th	Methods of differentiation of	02.05.2022 TO 08.05.2022
8fn	410	i) Parametric function	
	5th	Methods of differentiation of	
	SIL	ii) Implicit function	
	6th	Tuitorial class	
	1st	Methods of differentiation of	
		iii) Logarithmic function	
	2nd	Methods of differentiation of	
		iv) a function with respect to another function	09.05.2022 TO 15.05.2022
	3rd	Applications of Derivative	
9th		i) Successive Differentiation (up to second order)	
/ 111	4th	Applications of Derivative	
		i) Successive Differentiation (up to second order)	
	5th	Applications of Derivative	
		II) Partial Differentiation (function of two variables up	
	6fN	i uitoriai ciass	
	1st	Applications of Derivative	
		ii) Partial Differentiation (function of two variables up	
		to second order)	-
	2nd 3rd	INTEGRATION	
10th		a) Definition of integration as inverse of differentiation	
			16.05.2022
		Integrals of standard functions	
			22.05.2022
	1+h	Integrals of standard functions	1
	4111	Methods of integration	
	5th	i) Integration by substitution	
	/+6		1
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	1st	Methods of integration	
	2nd	Methods of integration	
	ZHQ	ii) Integration by parts	
		Integration of the following forms	23.05.2022 TO 29.05.2022
	3rd	i) $\int \frac{dx}{dx}$ ii) $\int \frac{dx}{dx}$ iii) $\int \frac{dx}{dx}$	
		$1^{\prime} J x^{2} + a^{2}$ $1^{\prime} J x^{2} - a^{2}$ $1^{\prime} J a^{2} - x^{2}$	
11th	4th	Integration of the following forms	
11111		dx dx dx dx dx	
		$(10) \int \frac{1}{\sqrt{x^2 + a^2}} (10) \int \frac{1}{\sqrt{x^2 - a^2}} (10) \int \frac{1}{\sqrt{a^2 - x^2}} (10) \int \frac{1}{a^$	
	5th	Integration of the following forms	
		$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	
		$\sqrt{10} \int \frac{1}{x\sqrt{x^2-a^2}} \int \sqrt{10} \int \sqrt{a} = x ax ax bx = \sqrt{10} \int \sqrt{a} = x ax bx = \sqrt{10} \int \sqrt{10} \int \sqrt{a} = x ax bx = \sqrt{10} \int \sqrt{10} \int \sqrt{a} = x ax bx = \sqrt{10} \int \sqrt$	
	6th	Tuitorial class	
	let		
	ISI Orad	Definition of integral,	
	2nd	properties of definite integrals	
	3rd	properties of definite integrals	30 05 2022
12th	4th	Application of integration I)	TO 05.06.2022
12111		Area enclosed by a curve and X – axis	
	5th	Application of integration	
	0111	i) Area enclosed by a curve and X – axis	
	6th	Tuitorial class	
	1 ct	Application of integration	
	131	ii) Area of a circle with centre at origin	06.06.2022 TO 12.06.2022
	2nd	DIFFERENTIAL EQUATION	
		a) Order and degree of a differential equation	
	3rd	b) Solution of differential equation	
		i) 1st order and 1st degree equation by the method	
		of separation of variables	
13th	4th	b) Solution of differential equation	
		i) 1st order and 1st degree equation by the method	
		of separation of variables	
		b) Solution of differential equation	
	5th	i) 1st order and 1st degree equation by the method	
		of separation of variables	
	6th		
	UIII	Solution of differential equation	
	1st	Linear equation $\frac{dy}{dt} + Py = 0$ where P Ω are functions of r	
		Einear equation $\frac{dx}{dx} + Ty = 0$, where T , α are functions of x	13.06.2022 TO 18.06.2022
	2nd	Solution of differential equation	
		Linear equation $\frac{dy}{dx} + Py = Q$, where P,Q are functions of x	
		Solution of differential equation	
14th	3rd	Linear equation $\frac{dy}{dx} + Py = Q$, where P,Q are functions of x	
	4th		
		Solution of differential equation Linear equation $\frac{dy}{dt} + Py = 0$ where P O are functions of x	
		Colution of differential equations	
	5th	Solution of differential equation $\frac{dy}{dy} = 0$, where D Q are functions of y	
		Entreal equation $\frac{1}{dx} + ry = Q$, where P,Q are functions of x	
	6th	Tuitorial class	