GOVERNMENT POLYTECHNIC MAYURBHANJ, TIKARPADA LESSION PLAN

a) Introduction b) Types of vectors (null vector, parallel vector , collinear vectors) (in component form) c) Representation of vector d) Magnitude and direction of vectors e) Addition and subtraction of vectors f) Position vector Problem solving and Tutorial Class g) Scalar product of two vectors h) Geometrical meaning of dot product Class 1 Class 2 2nd Class 3 Class 4 Class 3 Class 4 Class 5 Class 5 Class 5 Class 5 Class 5 Class 3 Class 3 Class 3 Class 4 Class 5 Class 5 Class 5 Class 5 Class 6 Class 7 Class 8 Class 8 Class 8 Class 9 Class 1 Class 3 Class 3 Class 1 Class 3 Class 3 Class 3 Class 3 Class 4 Class 6 Class 6 Class 7 Class 9 C	Discipline: ALL			Semester: 2nd	Name of the teaching Faculty: Nirmal Chandra Rout, Lecturer in Mathematics	
a) Introduction b) Types of vectors (null vector, parallel vector, collinear vectors) (in component form) c) Representation of vector d) Magnitude and direction of vectors e) Addition and subtraction of vectors f) Position vector Problem solving and Tutorial Class g) Scalar product of two vectors h) Geometrical meaning of dot product Class 1 Class 2 2nd Class 3 Class 4 Class 3 Class 4 Class 5 Class 5 Class 5 Class 5 Class 5 Class 6 Class 7 Class 8 Class 8 Class 9 Cla		ENGINE	RING	class allotted: 🐉		
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Class 1 Problem Solving & Tutorial Class	25		Class 5		IN A P SO MI (OCA tana & other power in the
d) Derivative of composite function (Chain Rule) Class 2 Class 3 Class 3 Class 4 Class 5 31 Class 1 Class 2 Chapter 3 Derivatives (21 Periods) Class 4 Class 5 General differentiation (Chain Rule) Problem Solving & Tutorial Class iii) Logarithmic function Problem Solving & Tutorial Class iv) a function with respect to another function					Problem Solving & Tutorial Class
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32 Class 2 (21 Periods) Problem Solving & Tutorial Class iv) a function with respect to another function					
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34 Class 4	33	7th	Class 3	(ZI Perious)	
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36		Class 1		f) Applications of Derivative i) Successive Differentiation (up to second order)
37		Class 2	370	Problem Solving & Tutorial Class
	8th		charter	ii) Partial Differentiation (function of two variables up to second order)
38		Class 3		ii) Partial Differentiation (function of two variables
39		Class 4		up to second order)
40		Class 5	KA (M. ANT) ANT	Problem Solving & Tutorial Class
				Introduction to Integration
41		Class 1		a) Definition of integration as inverse of differentiation
42	9th	Class 2		Problem solving and Tutorial Class
43	Juli	Class 3	2 8 16 10 10 10 10 10 10 10 10 10 10 10 10 10	b) Integrals of standard functions
44		Class 4		b) Integrals of standard functions
45		Class 5		Problem solving and Tutorial Class
				c) Methods of integration
46		Class 1		i) Integration by substitution
47		Class 2		Problem solving and Tutorial Class
48	10th	Class 3		ii) Integration by parts
49		Class 4		Problem solving and Tutorial Class
50		Class 5	and the second s	Problem solving and Tutorial Class
51	1000	Class 1		d) Integration of the following forms (1) 472
		3 =		
			16 (26) 565 (6)	ii) $\int \frac{d\Omega}{2^2 - \alpha^2}$ iii) $\int \frac{d\Omega}{\alpha^2 - \Omega^2}$
52		Class 2		$\frac{\partial \lambda}{\partial x^2}$
			Chapter-4	iv) $\int \frac{d\Omega}{\sqrt{\alpha^2+\alpha^2}}$ v) $\int \frac{d\Omega}{\sqrt{\alpha^2-\alpha^2}}$ vi) $\int \frac{d\Omega}{\sqrt{\alpha^2-\alpha^2}}$
	11th		Integration (15 Periods)	v) Jan 1 2 2 2 2 1 1 2 1 1 2 1 1 2 1
53		Class 3		$vi)\int \frac{\alpha^{1/2}}{\sqrt{\alpha^2-\alpha^2}}$

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54		Class 4	. 1900	
55		Class 5		Problem Solving and Tutorials
56		Class 1		Problem Solving and Tutorials
				e) Definite integral, properties of definite integrals
57		Class 2		
			chapter	ii) $\int_{0}^{\infty} f(x) dx = \int_{0}^{\infty} f(x) dx$ iii) $\int_{0}^{\infty} f(x) dx = \int_{0}^{\infty} f(x) dx$ iii) $\int_{0}^{\infty} f(x) dx = \int_{0}^{\infty} f(x) dx + \int_{0}^{\infty} f(x) dx$, $\int_{0}^{\infty} f(x) dx = \int_{0}^{\infty} f(x) dx + \int_{0}^{\infty} f(x) dx$,
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				iv) $\int f(x) dx = 0$ if $f(x)$ is odd = $2 \int_{0}^{1} f(x) dx$, if $f(x)$ even
58		Class 3		
59		Class 4		Problem Solving and Tutorials
				f) Application of integration
60		Class 5		i) Area enclosed by a curve and X – axis
60		Class 5		ii) Area of a circle with centre at origin
61		Period		Problem Solving and Tutorials Introduction to Differential equation
				a) Order and degree of a differential equation
62		Class 2		ay order and degree or a unreferrible equation
63		Class 3		Tutorial & problem solving
	13th	0.000		b) Solution of differential equation
				i) 1st order and 1st degree equation by the method
				of separation of variables
64		Class 4		lidges.
65		Class 5	Chapter 5	Problem Solving and Tutorials
			Chapter 5 DIFFERENTIAL EQUATION	ii) Solution of Linear Differential equation , where
66		Class 1	(12 Periods)	P,Q are functions of x $/ \frac{dy}{dx} + Py = Q$.
67	14th	Class 2	(12 Penous)	Problem Solving and Tutorials
68		Class 3		Problem Solving and Tutorials
69		Class 4		Problem Solving and Tutorials
70		Class 5		Problem Solving and Tutorials
71		Class 1		Problem Solving and Tutorials
72	15th	Class 2		Problem Solving and Tutorials
73		Class 3		Problem Solving and Tutorials
74		Class 4		Problem Solving and Tutorials
75		Class 5		Problem Solving and Tutorials