			LESSON PLAN SUMMER (2023-2024)	
	DISCIPLINE: MATHEMATICS	SEMESTER :2N	**NAME OF THE TEACHING FACULTY:** Smt Mamata Nayak,Smt. Sanghamitra Nath,Smt Supriya Khatua, Smt Sashmita Sahoo	
			SEMESTER FROM : 30th JANUARY,2024 TO 14TH MAY,2024	
SL. NO	WEEK/MONTH	NO. OF DAYS PER WEEKS CLASS	**No. of Days/per week class allotted: 05classes**	NO. OF PERIODS
1	5TH/JANUARY	1ST	1. Vector Algebra :-1.1 Introduction & representation of vector.	1
		2nd	1.2 Types of vectors	1
		3rd	1.3 magnitude and direction of vectors	1
		4th	1.4 addition and subtraction of vectors	1
		5th	1.5 position vector	1
2	1ST/FEBRUARY	1ST	1.6 scalar product of two vectors	1
		2nd	1.7 geometrical meaning of dot product .1.8 angle between two vectors	1
		3rd	1.9 scalar and vector projection of two vectors	1
		4th	1.10 vector product and geometrical meaning	1
		5th	1.11 area of triangle using vector product	1
3	2ND/FEBRUARY	1ST	1.11 area of parallelogram using vector product	1
		2nd	some ipmortant problems on scalar product	1
		3rd	important problems on vector product	1
		4th	2. Limit and continuity:- 2.1 definition of function,based on set theory	1
		5th	2.2 types of functions	1
4	3RD/FEBRUARY	1ST	2.3 Introduction of limit 2.4 existence of limit	1
		2nd	2.4 methods of evaluation of limit	1
		3rd	(iii) rationalisation method (iv) using some standard result	1
		4th	(b) trigonometric limit	1
		5th	(c) exponential & logarthmic limit	1
5	4TH/FEBRUARY	1ST	2.5 left hand limit & right hand limit	1
		2nd	2.6 limit continuity of a function at a point	1
		3rd	problems on limit continuity	1
		4th	some important problems	1
		5th	some important problems	1

6	1ST/MARCH	1ST	3 .Derivative:- 3.1 derivative of a function at a point	1
		2nd	3.2 algebra of derivative	1
		3rd	3.3 derivative of standard functions	1
		4th	3.4 derivative of composite function	1
7	2ND/MARCH	1ST	3.4 derivative of composite function	1
		2nd	3.5 methods of differentiation (i) inverse trigonomtric functio	1
		3rd	(i)inverse trigonometric function	1
		4th	(ii)implicit function	1
		5th	(iii) parametric function	1
8	3RD/MARCH	1ST	(iv) a function with respect to another function	1
		2nd	(v) using logarithm	1
		3rd	(v) using logarithm	1
		4th	3.6 application of derivative (i) successive differentiation	1
		5th	(i)successive differentiation	1
9	4TH/MARCH	1ST	(ii) partial differentiation	1
		2nd	problems on above	1
		3rd	chapter revision with some important problems	1
10	1ST/APRIL	1ST	4. INTEGRATION: - 4.1 definition of integration as inverse of different	1
		2nd	4.2 integrals of standard functions	1
		3rd	4.3 methods of integration (i) integration by substitution	1
		4th	(i)integration by substitution	1
		5th	(i)integration by substitution	1
11	2ND/APRIL	1ST	(ii)integration by parts	1
		2nd	(ii)integration by parts	1
		3rd	(ii)integration by parts	1
		4th	4.4 integration of the forms	1
		5th	4.4 integration of the forms	1
12	3RD/APRIL	1ST	4.5 definite integral	1
		2nd	properties of definite integral	1
		3rd	4.6 application of integration (i) area enclosed by a curve and x-axis	1

		4th	(ii)area of a circle with centre at origin	1
		5th	some ipmortant problems.	1
13	4TH/APRIL	1ST	5. DIFFERENTIAL EQUATION:- 5.1 definition	1
		2nd	5.2 order & degree of a differential equation	
		3rd	5.3 solution of differential equation	
		4th	5.3 solution of differential equation	1
		5th	problems on variable separation method	1
14	1ST/MAY	1ST	problems on variable separation method	1
		2nd	problems on variable separation method	1
		3rd	(II)linear differential equation	1
		4th	(II)linear differential equation	1
		5th	problems on above	1
15	2ND/MAY	1ST	problems on above	1
		2nd	REVISION	1
		3rd	REVISION	1
		4th	REVISION	1
		5th	REVISION	1
16	3RD.MAY	1ST	REVISION	1
		2nd	REVISION	1