Name of Faculty	:	Pooja Rani
Discipline	:	Common
Semester	:	2nd
Subject	:	App. Math-II
Lesson Plan Duration	:	15 Weeks (From January 2018 to April 2018)

Week		Theory	Pra	ctical
	Lecture	Торіс	Prac	Topic
	Day	(including assignment/test)	tical	
			Day	
1 st	1	Definition of function, Types of function with examples		N.A.
	2	Concept of Limits. Using Direct Substitution Method. Using		N.A.
		Factorization Method		
	3	Rationalization Method to solve limits.		N.A.
	4	Evaluation of Algebraic limits $\lim_{x\to a} \frac{x^n - a^n}{x^n} = na^{n-1}$		N.A.
		$\sin x - a$		
		And $\lim_{x \to 0} \frac{1}{x} = 1$		
	_			
	5	Evaluation of Exponential and Logarithmic functions using limits.		N.A.
2nd	6	Problems of unit 1.1 to solve.		N.A.
	/	Definition of Differentiation of a function with examples.		N.A.
	8	By definition, Differentiation of x^{2} and a^{2}		N.A.
		x^n and e^{-x} .		
	9	By definition Differentiation of	+	ΝΑ
		$\sin r$ cos r tan r		14.7 0.
	10	Problems of unit 1.2 to solve.	<u> </u>	N.A.
3 rd	11	Differentiation of sum or difference of functions.	<u> </u>	N.A.
-	12	Differentiation of product of functions.	1	N.A.
	13	Differentiation of quotient of functions.		N.A.
	14	Problems of unit 1.3 to solve.	1	N.A.
	15	Assignment.		N.A.
4 th	16	Differentiation of trigonometric functions $\sin x$, $\cos x \tan x$, $\csc x$.		N.A.
		$\sec x$, $\cot x$.		
	17	Differentiation of trigonometric functions $\sin x$, $\cos x$, $\tan x$, $\csc x$,		N.A.
		sec <i>x</i> , cot <i>x</i> .		
	18	Problems of Differentiation of trigonometric functions to solve.		N.A.
	19	Differentiation of inverse trigonometric functions $\sin^{-1} x$, $\cos^{-1} x$,		N.A.
		$\tan^{-1} x, \csc^{-1} x, \sec^{-1} x, \cot^{-1} x.$		
	20	Differentiation of inverse trigonometric functions $\sin^{-1} x$, $\cos^{-1} x$,		N.A.
th		$\tan^{-1} x, \csc^{-1} x, \sec^{-1} x, \cot^{-1} x.$		
5"	21	Problems of Differentiation of inverse trigonometric functions to		N.A.
		solve.	<u> </u>	
	22	Differentiation of logarithmic and exponential functions.		N.A.
	23	Differentiation of logarithmic and exponential functions.		N.A.
	24	Problems of Differentiation of logarithmic and exponential functions		N.A.
	25	U SUIVE.	+	
c th	25	Successive Differentiation of functions (up to 2 order).	+	N.A.
0	20	Drobleme of Suppose up Differentiation to column	+	N.A.
	2/	Applications of Differentiation in Velesity of a particle	+	N.A.
	20	Applications of Differentiation in Acceleration of a particle.	+	N.A.
	20	Applications of Differentiation in rate of change of length area and volume.	+	N.A.
1	50	I use of principation in rate of change of length, area and volume.	1	IN.A.

7 th	31	Problems of Applications of Differentiation to solve.	N.A.
	32	Assignment.	N.A.
	33	Definition of Maximum and Minimum value of a function, Graphical	N.A.
		Representation of Maximum and Minimum value of a function.	
	34	Maximum and Minimum values by Second Derivative Test.	N.A.
	35	Problems of Maximum and Minimum values to solve.	N.A.
8 th	36	Test of unit 1.	N.A.
	37	Definition of Integration, Simple Integration.	N.A.
	38	Problems of Simple Integration to solve.	N.A.
39		Integration by Substitution Method.	N.A.
	40	Problems of Substitution Method to solve.	N.A.
9 th	41	Integration of a function by some special integrals.	N.A.
	42 Problems of some special integrals to solve.	N.A.	
	43	Integration By Parts Method.	N.A.
	44	Problems of Integration By Parts Method to solve.	N.A.
	45	Integration using Partial Fractions.	N.A.
10 th	46	Problems of Integration using Partial Fractions to solve.	N.A.
	47	Integration using Standard Results.	N.A.
	48	Problems of Integration using Standard Results to solve.	N.A.
	49	Simple Definite Integration.	N.A.
	50	Definite Integration using properties.	N.A.
11 th	51	Problems of Simple Definite Integration.	N.A.
		$\int_0^{\pi/2} (\cos x)^n dx, \int_0^{\pi/2} (\sin x)^m (\cos x)^n dx$	
	53	Problems of Definite Integration with given limits to solve	ΝΑ
	54	Application of Integration for evaluation of area under a curve and	N.A.
		axes.	
	55	Problems of evaluation of area under a curve and axes to solve.	N.A.
12th	56	Assignment of Unit 2.	N.A.
	57	Numerical Integration by Trapezoidal Rule.	N.A.
	58	Problems of Numerical Integration by Trapezoidal Rule to solve.	N.A.
	59	Numerical Integration by Simpson's Rule.	N.A.
	60	Problems of Numerical Integration by Simpson's Rule to solve.	N.A.
13th	61	Test of Unit 2.	N.A.
	62	Definition, Order, Degree and Linearity of an ordinary differential eq.	N.A.
	63	Problems of an ordinary differential eq. to solve.	N.A.
	64	Measure of Central Tendency: Mean.	N.A.
	65	Measure of Central Tendency: Median.	N.A.
14th	66	Measure of Central Tendency: Mode.	N.A.
	67	Problems of Measure of Central Tendency to solve.	N.A.
	68	Measure of Dispersion: Mean Deviation.	N.A.
	69	Assignment of unit 3 and 4.	N.A.
	70	Problems of Measure of Dispersion: Mean Deviation to solve.	N.A.
15th	71	Measure of Dispersion: Standard Deviation.	N.A.
	72	Problems of Measure of Dispersion: Standard Deviation to solve.	N.A.
	73	Coefficient of rank correlation.	N.A.
	74	Problems of Coefficient of rank correlation to solve.	N.A.
	75	Test of unit 3 and 4.	N.A.