

LESSON PLAN OF APPL. MATH.-I FOR THE ACADEMIC SESSION: 2024-25 (WIN-2024)

Discipline : COMMON			Semester : 1ST	Name of the Teaching Faculty : Tanuja dash,HoD Math Smita Rani Barik,lect.math. Niranjan behera	
			THEORY		
Subject : APPL.MATH-II			From date: 16/08/2024 to 14/12/2024 No.of weeks:-15(excluding holidays)		
WEEK	No.of classes/week		THEORY	NO.OF PERIODS	
1ST	1ST	TRIGONOMETRY UNIIT-1	Concept of angles(FUNDAMENTAL)	1	
	2ND		Examples on above	1	
	3RD		Degree measurement of angles in grades and radians and their conversions	1	
	4TH		Examples on above	1	
2ND	1ST		T-Ratios of Allied angles (without proof),	1	
	2ND		T-Ratios of Allied angles (without proof),problem discusson	1	
	3RD		degrees Sum, difference formulae and their applications (without proof)	1	
	4TH		degrees Sum, difference formulae and their applications (without proof) ,problem discusson	1	
3RD	1ST		Examples on above	1	

	2ND		Examples on above	1
	3RD		Product formulae	1
	4TH		Product formulae, problem discusson	1
4 TH	1ST		(Transformation of product to sum, difference and vice versa).	1
	2ND		(Transformation of product to sum, difference and vice versa).	1
	3RD		T- Ratios of multiple angles, sub-multiple angles (2A, 3A, A/2).	1
	4TH		Examples on above	1
5TH	1ST	UNIT-1	Examples on above	1
	2ND		Graphs of $\sin x$, $\cos x$, $\tan x$ and e^x .	1
	3RD		Discussion on above chapter	1
	4TH		CLASS TEST	1
6TH	1ST	DIFFERENTIAL CALCULUS	Definition of function, problem discusson	1
	2ND		Definition of function ,problem discusson	1
	3RD		Concept of limits, problem discusson	1
	4TH		Concept of limits, problem discusson	1
7TH	1ST		Four standard limits, problem discusson	1
	2ND		Four standard limits ,problem discusson	1
	3RD		Examples on above	1
	4TH		Examples on above	1
8TH	1ST	UNIT-2	Differentiation by definition	1
	2ND		Examples on above	1
	3RD		Differentiation of sum, product and quotient of functions.	1
	4TH		Examples on above	1

9TH	1ST		Differentiation of function of a function.	1
	2ND		Examples on above	1
	3RD		Differentiation of trigonometric and inverse trigonometric functions	1
	4TH		Examples on above	1
10TH	1ST		.Logarithmic differentiation, Exponential functions.	1
	2ND		Examples on above	1
	3RD		Discussion of unit-II and doubt clearing class	1
	4TH		Class test	1
11TH	1ST		Complex Numbers: Definition, real and imaginary parts of a Complex number, polar and Cartesian, representation of a complex number and its conversion from one form to other	1
	2ND		conjugate of a complex number, modulus and amplitude of a complex number Addition, Subtraction, Multiplication and Division of a complex number.	1
	3RD		De-moivre's theorem, its application.	1
	4TH		Examples on above	1
12TH	1ST	ALGEBRA UNIT-3	Definition of polynomial fraction proper & improper fractions and definition of partial fractions. To resolve proper fraction into partial fraction with denominator containing non-repeated linear factors, repeated linear factors and irreducible non-repeated quadratic factors. To resolve improper fraction into partial	1
	2ND		Examples on above	1
	3RD		Examples on above	1

	4TH		Examples on above	1
13TH	1ST		Value of nPr and nCr	1
	2ND		Examples on above	1
	3RD		. Binomial theorem: Binomial theorem (without proof) for positive integral index (expansion and general form); binomial theorem for any index (expansion without proof)	1
	4TH		Examples on above	1
14TH	1ST		Examples on above	1
	2ND		first and second binomial approximation with applications to engineering problems	1
	3RD		Examples on above	1
	4TH		Examples on above	1
15TH	1ST	UNIT-1	DOUBT CLEARING CLASS,Previous year question discussion	1
	2ND	UNIT-2	DOUBT CLEARING CLASS,Previous year question discussion	1
	3RD	UNIT-3	DOUBT CLEARING CLASS,Previous year question discussion	1
	4TH		Mock test	1

Mrs. Tanuja Dash, HoD Math.

Mrs. Smita rani barik, Lect. Math

Mr. Niranjan Behera, PTGF

SIGNATURE OF FACULTY

