LESSON PLAN(2025-26(W))

Discipline PME/ MECH/ META/MIN ING	Semester- 1st	Math. & Sc. Department., Govt. Polytechnic, Jajpur. Name of the teaching faculty: Smt. Pragyan Priyadarsini, Lect. in Mathematics, Semester from date:06.08.25 to 04.12.2025 No. of weeks: - 15 (excluding vacation & Holidays)	
Subject – Math-l	No. of days/per weck-04		
Week	Class Day	Chapter	Theory
	1 st -01	Algebra Complex numbers	Introduction of complex number, Geometrical Representation of complex numbers
1st	2 nd -02		Conjugate, Modulus, amplitude, addition, subtraction, multiplication, division of complex numbers and their properties.
	3 rd -03		conversion from Cartesian form to Polar form and vice versa
	4 th -04		Square root, cube root and cube roots of unity of a complex number.
	1 st -05		De-Moivre's Theorem and its application
	2 nd -06		Problem Discussion
2nd	3 rd -07		Class Test
	4 th -08	Partial Fractions	Definition of Polynomial fraction, Proper & Improper fraction, Conversion from Improper to proper fraction
	1 st -09		To resolve proper fraction into partial fraction with denominator containing non-repeated linear factors, illustrative examples.
Brd	2 nd -10		To resolve proper fraction into partial fraction with denominator containing repeated linear factors, illustrative examples.
	3 rd -11		To resolve proper fraction into partial fraction with denominator containing irreducible non repeated quadratic factors, illustrative examples.
	4 th -12		Class Test
4th	1 st -13	Permutations ,Combinations & Binomial Theorem	General introduction, introduction to the Topic.
	2 nd -14		Fundamental Principle of Counting, Illustrative Examples.
	3 rd -15		Principles of multiplication, Addition, Illustrative examples.
	4 th -16		Permutations when all the objects are distinct.
Sth	1 st -17		Factorial Notation, illustrative examples.
	2 nd -18		Permutations under various cases.
	3 rd -19		Combinations of 'n' different objects.

	4 th -20		Problem discussion with doubt clearing, Exercise problem discussion
6th	1 st -21		. Binomial Theorem for positive integral index.
	2 nd -22		Binomial Theorem for any index.
	3 rd -23		
	4 th -24		Problems on approximation by the Binomial Theorem.
7th	1 st -25		Problem discussion(Application on real life/Industrial)
	2 nd -26		Class Test. Concept of angles, Measurement of angle in degree, grades, radian
	3 rd -27		
	4 th -28		Conversion of degree, grade, radian
	1 st -29		Continue, illustrative examples.
	2 nd -30	-	Introduction to Trigonometry & T-ratios.
3th		-	Continue
	3 rd -31		Even function, odd function, periodic function
	4 th -32		Sum, difference formula of trigonometry and the
	1 st -33		11 33 33 33
	2 nd -34		Product formula Transformation of the last tran
9th		Trigonometry	Transformation of product to sum, difference and vice versa
	3 rd -35	, , ,	Problem discussion
	4 th -36		Problem discussion
	1 st -37	_	Trigonometric ratios of multiple angles i.e. 2A, 3A
	2 nd -38		Trigonometric ratios of sub-racitic
10th			Trigonometric ratios of sub-multiple angles i.e .A/2 Continue
	3 rd -39		Illustrative examples
	4 th -40		Graphs of Trigonometric Functions, Exponential & Logarithm functions.
11th	1 st -41		Continue
	2 nd -42		Problem discussion
	3 rd -43		Exercise problem discussion
	4 th -44		continue
			Class Test
	1 st -45		Definition of function, different types of functions, illustrative examples
12th	2 nd -46	Differential Calculus	continue
	3 rd -47		Introduction to Limit. Limit of a function
	4 th -48		Evaluation of L.H.L.& R.H.L., Exitance of Limit

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13th	1 st -49		Methods of Evaluation of Limit (direct substitution, factorization, rationalization,)
	2 nd -50		. Evaluation using standard limit formulas
	3 rd -51		Problem Discussion
	4 th -52		Problem Discussion
14th	1 st -53		Introduction to differentiation, ab-intio method
	2 nd -54		Algebra of differentiation, Derivative of composite functions, illustrative examples
	3 rd -55		Derivatives of explicit/implicit function
	4 th -56		Derivatives of trigonometry, inverse trigonometry, logarithm, exponential functions.
15th	1 st -57		Class test
	2 nd -58	probable questions answer discussion &VST	Problem Practice & Doubt Clearing
	3 rd -59		Problem Practice & Doubt Clearing
	4 th -60		Problem Practice & Doubt Clearing

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