GOVERNMENT POLYTECHNIC JAJPUR
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LESSON PLAN

1ST SEMESTER, 1ST YEAR

SCIPLINE	SEMESTER NAME OF THE TEACHING FACULTY: Smt. Pragyan Priyadarsini				
The same of the same	NO.OF	SEMESTER FROM DATE : 16/08/2024 TO DATE : 10/12/2024			
THEMATICS-III	DAYS/WEEKS CLASS ALLOTED				
WEEKS	CLASS DAY	TOPICS			
	1st	i)Concepts of angles, measurements of angles in degrees, grades and radians and their conversons.			
	2nd	in ratios of affice (without proof)			
1st	3rd	iii) Examples on allied angles			
	4th	iv) Sum formula and their applications.			
		v) Examples on sum formula of trigonometry values.			
		vi) Difference formula and their applications			
2nd	1st	i) Examples on difference formula.			
	2nd	ii) Product formula (Transformation of product to sum and vice versa)			
	3rd	iii) Examples on product to sum formula.			
	4th	iv) Product formula (Transformation of product to 1976			
	1st	iv) Product formula (Transformation of product to difference and vice versa) i) Examples on product to difference formula.			
	2nd	in Examples of modulet to difference formula.			
3rd	3rd	ii) T-ratios of multiple angles with examples .(2A,3A)			
	4th	iii) Examples on multiple angles.			
	lst	iv) T-ratios of sub-multiple angles(A/2,A/3).			
		i) Examples on sub-multiple angles.			
4th	2nd	ii) Examples on sub-multiple angles,			
	2-4	iii) Graphs of sinx , cosx			
	3rd	iv) Graphs of tanx , e^x			
	4th	v) Definitin of functions			
	1st	i) Concept on limits.			
5th	2nd	ii) Four standard limits			
	3rd	CLASS TEST-1			
	4th	iii)Examples on Four standard limits			
	1st 2nd	i) Examples on Four standard limits			
	2110	ii) Differerentiations by definition of sinx, x^n, cosx			
6th	3rd	iii) Differentiations by definitions of e^x,log_ax, tanx			
7		iv) Differentiations of sum and product of fuctions.			
	4th	v) Differentiations of quotient of functions.			
	Let	vi) Examples on quotients of function.			
	1st 2nd	i) Differentiations of functions of a function.			
		ii) More examples on sum, difference and quotient of fuction.			
7th	3rd	iii) Differentiation of trigonometyry functions.			
	4th	iv) Differentiation of inverse trigonometry functions.			
		v) Differentiation of logarithmic function.			
	1st	vi) Differentiation of exponential function.			
		i) Discuss objective type Questions and answer.			
8th	2nd	ii) Definition of Complex numbers.			
	3rd	iii) Real and imaginary parts of complex number.			
	4th	iv) Polar and cartesian representations of complex number.			
	401	v) Conversion from one form to another form.			
9th	1st	i) Conjugate of complex number.			
	181	ii) Modulus of complex number.			
	2nd	iii) Amplitude of complex number.			
	2rd	iv) Examples on conjugater , amplitude and modulus of complex number.			
	3rd 4th	v) Addition and substractions of complex number.some examples on addition and substraction .			
	4111	vii) Multiplication and division of complex number.			
	2nd	i) Some examples on multiplications and division of complex number.			
10th		ii) De-movier's theorem.			
		iii) Applications of de-movier's theorem.			
		iv) Discuss objective type question with answer .			
		i) Definition of polynomial fraction.			
	3rd	ii)Definition of proper and improper fractions.			
	4th	iii) Definition of partial fractions.			
11th	lst	i)Solve proper fraction into partial fraction with denominator containing non-repeated linear factor.			
	2nd	ii)Solve proper fraction into partial fraction with denominator containing repeated linear factor.			

	and iii) some examples on non-repeated linear factor.			
-	4th	The state of the s		
-	İst	listoive proper fraction into partial fraction with irreducible non-repeated years.		
12th	2nd	ii) Discuss examples on non-repeated quadratic factors.		
	3ed	iii) Discuss examples on non-repeated quadratic factors.		
-	4th	(v) CLASS TEST -2		
-	460	() Discuss about improper faction with an example.		
	Let	US Solve improper fraction into partial fraction.		
-	150	Discuss questions on improper fractions to pratial fraction.		
	2nd	iv) Discuss objective type question with answer .		
130:	3rd	v) Definition of permutations and combinations.		
+	318 4th	vi) Value of p(n,r)		
-		Il Value of C(n,r)		
	lst	(i) Binomial theorem(without proof).		
	2nd	iii) Binomial theorem for positive integral index .		
14th	4.4	iv) Binomial theorem for any index(Expansion without proof).		
	3rd	y) First binomial approximations.		
	4th	(i) Second binomial approximations.		
	lst	A Read Assert Assert Asserting Section 1997		
		ii) Examples of first and second binomial approximations with applications to engineering problems.		
15th	2nd	iv) Discuss exercise of binomial approximations.		
	3rd	(v) Discuss exercise or parameter parameter and a second parameter a		
	4th	v) Discuss objective type question with answer		
	Tet	ii) Discuss previous year questions with answer		
16th	2nd	iii) Discuss previous year questions with answer		
	3rd	iv) Discuss previous year questions with answer		
	4th	iv) Discuss previous year questions with answer		

Learnin	ng Resources:			
	www. www. March	Name of Authors	Name of Publisher	
SI. No.	Title of the Book		Khanna publishers	
1.	Higher engineering Mathematics	Or B S. Greenal		
2	Elements of Mathematics VolI	Odisha State Sureau o production		
		CR Malick	Kalayani publication	
3.	Text Book of Engineering Mathematics-I			
	Manual Control	Dr. Dannak Singh	Khanna publication	
4.	Mathematics-I	Dr. Deepak Singh		

Fortegum Prigadonsini/16/08/2024