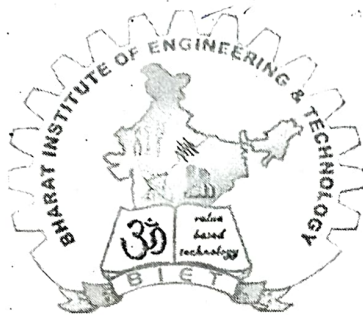


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

SIVARAM VIHAR, GHATAKESWAR HILLS
MOHADA, BERHAMPUR (GM.)



STUDENT'S ATTENDANCE REGISTER

Time	9.05	9.55	10.45		
Day	9.05 9.55	9.55 10.45			
Mon					
Tue		M-3			
Wed					
Thu	M-3	M-3			
Fri	M-3				
Sat					

Year/ Session : 2023 (winter)	Semester from Date: 01/08/2023 To Date : 30/11/2023
Semester & Branch	3rd semester & ETC
Subject with Code	Math (TH-01)
Name of the Faculty Member	Radhakrishna padhy
No of Weeks:	No of Days per Week Class Allotted :

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
↑ A U G U S T	↑ 1st week ↓	1/8/23 3/8/23 3/8/23 4/8/23	<p style="text-align: center;"><u>Unit-1</u></p> <p>1. <u>Complex Numbers</u> 6</p> <p>1.1 Real & Imaginary numbers.</p> <p>1.2 → Complex numbers</p> <p style="padding-left: 20px;">→ conjugate complex numbers</p> <p style="padding-left: 20px;">→ Modulus & Amplitude of a Complex Numbers</p> <p>1.3 → Geometrical Representation of Complex nos.</p> <p>1.4 → properties of Complex nos</p> <p>1.5 → Determination of three cube root of unity & their properties</p> <p>1.6 → De Moivre's Thm 1</p> <p>1.7 → Solve problems on 1.1 - 1.6</p> <p style="text-align: right; margin-right: 50px;">1+1=</p> <p style="text-align: right; margin-right: 50px;"><u>Ready</u> 2.4 & 3.</p>
	2nd week	8/8/23 10/8/23 10/8/23	

Signature of the Faculty: R. Padhy
01/8/23

Signature of the Principal/Course Co-ordinator/HOD: R. Padhy
11/8/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic	Month	Week
	2 nd	11/8/23	<p style="text-align: center;"><u>Unit - 2.</u> 4</p> <p style="text-align: center;">MATRICES →</p> <p>2.1 → Define RANK of a Matrix</p>		
	3 rd	17/8/23	<p>2.2 → perform Elementary row transformations to determine the rank of a matrix</p>		
	W E E K	17/8/23	<p>2.3 → State Rouches \existsth^m for consistency of a system of linear eqns of n unknowns</p>		
		17/8/23	<p>2.4 → solve equations in three unknowns testing consistency</p>		
		18/8/23	<p>2.5 → solve problems on 2.1 - 2.4</p>		

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01/8/23

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01/8/23

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Month	Week	Class Day	Theory/Practical Topic
↓ ↑ O C T	5th	29/8/23 31/8/23 31/8/23	arbitrary constants & arbitrary equations 3.6 → Solve partial differential equations by eliminating by arbitrary constants & arbitrary functions } 1+1
	6th	1/9/23 5/9/23 7/9/23	3.6 3.6 → solve partial diff eqn ⁿ of the form $Pp + Qq = R$ } 1+1 3.7 solve problems on } 1+1 3.1 - 3.6 Inedya 31.7.23

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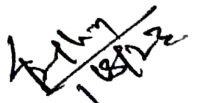
Week	Class .Day	Theory/Practical Topic	Month
		<u>UNIT-4</u>	12
		<u>4.0 Laplace Transformation.</u>	
	7/9/23	4.01 Define Gamma function & $\Gamma(n+1) = n!$ & $\Gamma\left(\frac{1}{2}\right) = \sqrt{\pi}$	
		4.02 Define Laplace Transformation of a function $f(t)$ and inverse Laplace Transformation	} 1

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Month	Week	Class Day	Theory/Practical Topic
	6th	8/9/23	4.3 → Derive Laplace Transformation of a std. function and explain cond ⁿ for existence of L.T. 1+1+1
	7th	12/9/23	4.4 → Explain Linear, shifting property of L.T. 1+1
		14/9/23	
		15/9/23	
	8th	21/9/23	4.5 → Formulate L.T of derivatives, Integrals & multiplication by t^n and division by t . 1+1
		21/9/23	
		22/9/23	
	9th	26/9/23	4.6 → Derive formula for Inverse L.T & explain method of partial fraction. 1+1
		28/9/23	
		28/9/23	4.7 Solve problems on 4.1 to 4.6 1+1-
			<u>UNIT - 5</u> (12)
			Fourier Series →
			5.1 Define periodic function 1

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Month	Week	Class Day	Theory/Practical Topic
	10th	3/10/23	5.2 → State Dirichlet's conditions for Fourier expansion of a function and its convergence. 1
		5/10/23	5.3 → Express periodic function $f(x)$ satisfying Dirichlet's conditions as a Fourier series. 1
		5/10/23	5.4 → State Euler's Th^{m} & formula. 1
		6/10/23	5.5 → Define odd functions and find Fourier series in 1+1
		10/10/23	$0 \leq x \leq 2\pi$ & $-\pi \leq x \leq \pi$

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10/10/23

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Month	Week	Class Day	Theory/Practical Topic
	11th	12/10/23 12/10/23 13/10/23	5.6 Obtain ^{FS} of continuous functions & functions having points of discontinuity in $(0 \leq x \leq 2\pi)$ & $(-\pi < x < \pi)$ 1+1+1
	12th	17/10/23 19/10/23 19/10/23 31/10/23	5.7 Solve problems on 5.1 — 5.6 1+1+1 <u>UNIT-6</u> (4) <u>NUMERICAL METHODS</u> 6.1 Appraise limitation of analytical methods of solution of Algebraic Equations. } 1 6.2 Derive iterative formula for finding the solution of Algebraic Equations by

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic	nth
↑				
N	13th	2/11/23	6.2.1 Bisection Method	1
O		2/11/23	6.2.2 Newton-Raphson Method	1
		3/11/23	6.3 solve problems on 6.2	1
V			<u>UNIT - 7</u>	14
E			<u>Finite Difference & Interpolation</u>	
M	14th	7/11/23	7.1 Explain finite difference & form table of forward & backward difference	1
B		9/11/23	7.2 Define shift operator E & establish relation between E & difference operator Δ	1
E				
R		9/11/23	7.3 → Derive Newton's forward & backward interpolation	1+1+1

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1/12/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
			formula for equal intervals
		10/11/23	7.4 → State Lagrange's interpolation
		14/11/23	formula for unequal intervals ¹⁺¹
	15 th	16/11/23	7.5 → Explain Numerical 1+1
		16/11/23	Integration & state
		17/11/23	7.5.1 Newton's cot formula ¹⁺¹
		21/11/23	
		22/11/23	7.5.2 - Trapezoidal rule 1
		23/11/23	
	16 th	24/11/23	7.5.3 - Simpson's $\frac{1}{3}$ rd rule 1
	17 th	28/11/23	7.6 → solve problems. 1+1+1
		30/11/23	on 7.1 - 7.6
		<i>Incl. in 31.7.23</i>	

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1/12/22