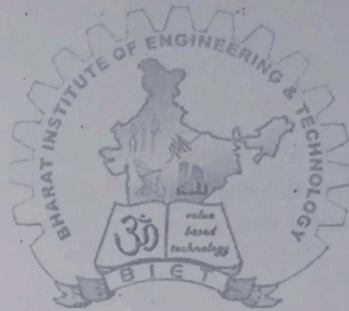


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time Day	9:55 to 10:45	10:45 11:35		12:25 to 1:15
Mon		✓		
Tue				✓
Wed	✓			
Thu	✓			
Fri				✓
Sat				

Year/ Session : 2023 (winter)	Semester from Date: 01/08/2023 To Date : 30/11/2023
Semester & Branch	3 rd Sem & Electrical
Subject with Code	TH.2, CNT
Name of the Faculty Member	Satnibasa Panda
No of Weeks:	No of Class Allotted/Week : 5

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
Aug	1st	1/8/23	1. <u>magnetic circuits</u>
		2/8/23	1.1 Introduction
		3/8/23	1.2 magnetizing force, Intensity, mmf, flux and their relations.
		4/8/23	1.3 permeability, reluctance and permeance.
	2nd	7/8/23	1.4 Analogy between electric and magnetic circuits.
		8/8/23	1.5 B-H curve
		9/8/23	1.6 Series and Parallel magnetic circuit
		10/8/23	1.7 Hysteresis loop

*Seen
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09.7.23.*

*S. K. Chakraborty
7/8/23*

SP

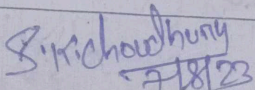
Signature of the Faculty: *[Signature]*

Signature of the Principal/Course Co-ordinator/HOD:

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
			2. <u>Coupled Circuits</u>
		10/8/23	2.1. Self inductance and mut mutual Inductance
		11/8/23	2.2. Conductively coupled circuit and mutual impedance
	3 rd	14/8/23	2.3. Dot convention
		16/8/23	2.4. Coefficient of coupling
		17/8/23	2.5. Series and Parallel connection of coupled Inductors.
		18/8/23	
	4 th	21/8/23	2.6. Solve numerical Problems.

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 Signature of the Principal/Course Co-ordinator/HOD:

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
			3. <u>CIRCUIT ELEMENTS AND ANALYSIS</u>
		22/8/23	3.1 Active, Passive, unidirectional & bilateral, Linear & non linear elements.
		23/8/23	3.2 mesh Analysis, mesh Equations by inspection
		24/8/23	3.3 Super mesh Analysis.
		25/8/23	3.4 nodal Analysis, nodal Equations by inspection
	5 th	28/8/23	3.5 Super node Analysis
		29/8/23	3.6 Source transformation
		31/8/23	Technique.
Sept	1 st	1/9/23	3.7 Solve numerical problems
		4/9/23	(with independent sources only).

Signature of the Faculty:

S. K. Choudhary
7/8/23

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
sept	2 nd	5/9/23	4.1. Star to delta and delta to Star transformation.
		7/9/23	
	3 rd	8/9/23	4.2 Super position Theorem
		11/9/23	4.3 Thevenin's Theorem
		12/9/23	4.4 Norton's Theorem
		13/9/23 14/9/23	4.5 maximum power transfer Theorem.
	4 th	15/9/23	4.6 Solve numerical problems (with independent source only).
		18/9/23	
		21/9/23	

S. Pandey

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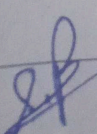
S.K. Choudhary
7/8/23

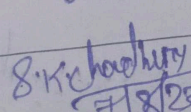
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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
			<u>5. AC circuit and Resonance</u>
	5 th	22/9/23	5.1 AC through R-L, R-C & R-L-C circuit
		25/9/23	5.2 Solution of problems of AC through R-L, R-C & R-L-C series circuit by Complex Algebra method
		26/9/23	
		27/9/23	5.3 Solution of problems of AC through R-L, R-C, & R-L-C Parallel & Composite circuits.
		28/9/23	
Oct	1 st	3/10/23	5.4 Power factor & power triangle.
		4/10/23	5.5 Deduce expression for Active, reactive, Apparent powers.
		5/10/23	
	2 nd	6/10/23	5.6 Derive the resonant frequency of Series resonance and Parallel
		9/10/23	

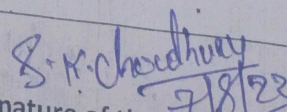
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B.I.E.T., COURSE PLAN

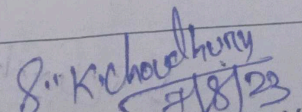
Month	Week	Class Day	Theory/Practical Topic
Oct	3 rd		Resonance circuit
		10/10/23 11/10/23	5.7 Define Bandwidth, Selectivity & Q-factor in series circuit
		12/10/23	5.8 Solve numerical problem
			6. <u>POLYPHASE circuit</u>
		13/10/23	6.1 Concept of poly-phase system and phase sequence.
		16/10/23	6.2 Relation between phase and line quantities in Star & Delta connection
		17/10/23	6.3 Power equation in 3-phase balanced circuit
		18/10/23	6.4 Solve numerical problems
		19/10/23	6.5 Measurement of 3-phase Power by two wattmeter method.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
NOV	5 th	30/10/23 31/10/23	6.6 Solve numerical problems.
	1 st	1/11/23	7. <u>TRANSIENTS</u> 7.1 Study state & transient state response.
		2/11/23 31/11/23	7.2. Response to R-L, R-C & R-L-C circuit under DC condition.
	2 nd	6/11/23	7.3 Solve numerical problems.


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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
Nov	3 rd		8. <u>TWO Port network</u>
		7/11/23	8.1 open circuit impedance (Z) Parameters
		8/11/23	8.2 short circuit Admittance (Y) Parameters
		9/11/23	8.3 Transmission (ABCD) Parameters.
		10/11/23	8.4 Hybrid (h) Parameters.
		14/11/23	8.5 Inter relationship of different Parameters.
		15/11/23	8.6 T. matrix representation
16/11/23	8.7 Solve numerical problems.		

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
			9. <u>Filters</u>
	2 th	17/11/23	9.1 Define filter
		20/11/23	9.2 classification of pass: Band, stop band & cut-off frequency.
		21/11/23	9.3 classification of filters
		22/11/23	9.4 Constant - K low pass filter
		23/11/23	9.5 Constant - K high pass filter
		24/11/23	9.6 Constant - K Band pass filter
	5 th	28/11/23	9.7 constant - K Band elimination filter
		29/11/23	
		30/11/23	9.8 Solve numerical problems.

Seen
~~Prachin~~
 29.7.23

S. K. Choudhury
 29/8/23
 Signature of the Principal/Course Co-ordinator/HOD:

Signature of the Faculty: