


DISCIPLINE – ELECTRICAL ENGG	SEMESTER 1ST	NAME OF THE TEACHING FACULTY- N. C .BEHERA, Sr. LECT(ELECT.)	
SUB-FEE (Elect engg)	No Of Days Per Week Class Alloted-2	SEMESTER FROM 016.08.2024 TO 10.12.2024 NO OF WEEK – 15 WEEKS SESSION : 2024-25	
WEEK	CLASS DAY	THEORY	STATUS
1 ST WEEK	1 ST day 2 nd day	<p style="text-align: center;">Unit IV</p> <ul style="list-style-type: none"> • Introduction of electrical engg • Electric and Magnetic Circuits: EMF, Current, Potential Difference, Power and Energy; 	
2 nd WEEK	1 ST day 2 nd day	<ul style="list-style-type: none"> • M.M.F, magnetic force, permeability, hysteresis loop, reluctance, leakage factor and BH curve; • Electromagnetic induction, Faraday's laws of electromagnetic induction, Lenz's law; 	
3 RD WEEK	1 ST day 2 nd day	<ul style="list-style-type: none"> • Dynamically induced emf; Statically induced emf; Equations of self and mutual inductance; • Analogy between electric and magnetic circuits 	

4 TH WEEK	1 ST day 2 ND day	<p style="text-align: center;">Unit V</p> <ul style="list-style-type: none"> • A.C. Circuits: Cycle, Frequency, Periodic time, Amplitude, Angular velocity, • RMS value, Average value, Form Factor Peak Factor, impedance, phase angle, and power factor; 	
5 TH WEEK	1 ST day 2 ND day	<ul style="list-style-type: none"> • Mathematical and phasor representation of alternating emf and current; 	
6 TH WEEK	1 ST day 2 ND day	<ul style="list-style-type: none"> • Voltage and Current relationship in Star and Delta connections; • A.C in resistors, inductors and capacitors; 	
7 TH WEEK	1 ST day 2 ND day	<ul style="list-style-type: none"> • A.C in R-L series, R-C series, R-L-C series and parallel circuits; • Power in A. C. Circuits, power triangle. 	
8 TH WEEK	1 ST day 2 ND day	<p style="text-align: center;">Unit VI</p> <ul style="list-style-type: none"> • Transformer and Machines: General construction and principle of different type of transformers; 	
9 TH WEEK	1 ST day 2 ND day	<ul style="list-style-type: none"> • Emf equation and transformation ratio of transformers; • Auto transformers; 	

10 TH WEEK	1 ST day 2 ND day	<ul style="list-style-type: none"> • Construction and Working principle of motors • Basic equations and characteristic of motors. 	
11 TH WEEK	1 ST day 2 ND day	REVISION OF UNIT IV	
12 TH WEEK	1 ST day 2 ND day	REVISION OF UNIT V	
13 TH WEEK	1 ST day 2 ND day	REVISION OF UNIT VI	
14 TH WEEK	1 ST day 2 ND day	VST FOR SEMESTER EXAM	
15 TH WEEK	1 ST day 2 ND day	VST FOR SEMESTER EXAM	


 27.7.2022
 (N. S. BEHERA)