

<b>DISCIPLINE:</b> Electrical & Electronics Engg.	<b>SEMESTER:</b> 4 <sup>th</sup> Semester	<b>NAME OF THE TEACHING FACULTY:</b> Mr. Bibhuti gampai (PTGF IN EEE) / Sriya panda (PTGLA IN EEE)
<b>SUBJECT:</b> EM Lab (PR3)	<b>NO OF DAYS/PER WEEK CLASSES ALLOTTED:</b> 3	<b>SEMESTER FROM DATE:</b> 22.12.25 <b>TO DATE:</b> 18.04.26 <b>NO OF WEEKS:</b> 15

Week	Class Day	PRACTICAL Topics
1 <sup>st</sup>	1 <sup>st</sup>	Study of the construction and working of DC machines, transformers, and AC machines.
	2 <sup>nd</sup>	-----do-----
2 <sup>nd</sup>	1 <sup>st</sup>	Open Circuit and Short Circuit Test on a single-phase transformer.
	2 <sup>nd</sup>	-----do-----
3 <sup>rd</sup>	1 <sup>st</sup>	Load test on a DC shunt motor to determine performance characteristics.
	2 <sup>nd</sup>	-----do-----
4 <sup>th</sup>	1 <sup>ST</sup>	Speed control of a DC shunt motor using armature and field control methods.
	2 <sup>ND</sup>	-----do-----
5 <sup>th</sup>	1 <sup>ST</sup>	Load test on a three-phase induction motor to determine efficiency and performance.
	2 <sup>ND</sup>	-----do-----
6 <sup>th</sup>	1 <sup>ST</sup>	No-load and blocked rotor tests on a three-phase induction motor.
	2 <sup>ND</sup>	-----do-----
7 <sup>th</sup>	1 <sup>ST</sup>	Voltage regulation of an alternator using the synchronous impedance method.
	2 <sup>ND</sup>	-----do-----
8 <sup>th</sup>	1 <sup>ST</sup>	Determination of V and Inverted V curves of a synchronous motor.
	2 <sup>ND</sup>	-----do-----
9 <sup>th</sup>	1 <sup>ST</sup>	Load test on a single-phase induction motor to determine performance characteristics.
	2 <sup>ND</sup>	-----do-----
10 <sup>th</sup>	1 <sup>ST</sup>	Study of special electrical machines like universal motor and stepper motor.
	2 <sup>ND</sup>	-----do-----
11 <sup>th</sup>	1 <sup>ST</sup>	Repeat Class
	2 <sup>ND</sup>	Repeat Class
12 <sup>th</sup>	1 <sup>ST</sup>	Repeat Class
	2 <sup>ND</sup>	Repeat Class
13 <sup>th</sup>	1 <sup>st</sup>	Repeat Class
	2 <sup>nd</sup>	Repeat Class
14 <sup>th</sup>	1 <sup>ST</sup>	Repeat Class
	2 <sup>ND</sup>	Repeat Class
15 <sup>th</sup>	1 <sup>st</sup>	Repeat Class
	2 <sup>nd</sup>	Repeat Class

G. Bibhuti  
22.12.25  
Lecturer

D. Kumar  
HOD 22.12.25

*[Signature]*  
Principal