

<b>Discipline – Electrical Engg</b>	<b>Semester 5<sup>th</sup></b>	<b>NAME OF THE TEACHING FACULTY- RINA RANI SOREN, LBA(ELECT.)</b>	
<b>SUB-EM LAB-II</b>	<b>No Of Days Per Week Class Alloted- 4 P</b>	<b>SEMESTER FROM 01.09.2020 TO 01.03.2021</b>	
<b>WEEK</b>	<b>CLASS DAY</b>	<b>PRACTICALS</b>	<b>STATUS</b>
1 <sup>st</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	1. Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia Tjoint and Married joint.	
2 <sup>nd</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	1. Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia Tjoint and Married joint.	
3 <sup>rd</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	.2. Cutting copper and aluminum cable and crimping lug to them from 2.5mm <sup>2</sup> to 6 mm <sup>2</sup> cross section.	
4 <sup>th</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	3. Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps – measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table	
5 <sup>th</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	3. Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps – measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table	
6 <sup>th</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	4. Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity).	
7 <sup>th</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	5. Erection of residential building wiring by CTS and conduit wiring system using main two points and test installation by test lamp method and a meggar.	

8 <sup>th</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	5. Erection of residential building wiring by CTS and conduit wiring system using main two points and test installation by test lamp method and a meggar.	
9 <sup>th</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	6. Fault finding & repairing of Ceiling Fan – prepare an inventory list of parts.	
10 <sup>th</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	6. Fault finding & repairing of Ceiling Fan – prepare an inventory list of parts.	
11 <sup>th</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	7. Find out fault of D.C. generator, repair and test it to run. .	
12 <sup>th</sup> week	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	7. Find out fault of D.C. generator, repair and test it to run. .	
13 <sup>th</sup> week	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	8. Find out fault of D.C. motor starters and A.C motor starter – prepare an inventory list of parts used in different starters.	
14 <sup>th</sup> week	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	9. Dismantle, over haul and assemble a single phase induction motor. Test and run it. – prepare an inventory list.	
15 <sup>th</sup> week	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	10. Dismantle over haul and assemble a three phase squirrel cage and phase wound motor. Test and run them.	
16 <sup>th</sup> week	1 <sup>ST</sup> day 2 <sup>nd</sup> day 3 <sup>rd</sup> day 4 <sup>th</sup> day	11. Overhaul a single phase and 3-phase variac.	

