


<b>Discipline – Electrical Engg ( GROUP- 01&amp;02 )</b>	<b>Semester 6<sup>th</sup> Alloted- 6 P/ week</b>	<b>Sub: Electrical Workshop Practice Lab ( EWP ) Session – 2024-25 ( 04/02/2025 to 17/05/2025 ) NAME OF THE TEACHING FACULTY- N.C BEHERA (SR. LECTURER)</b>
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WEEK	CLASS DAY	PRACTICALS
1 <sup>st</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</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	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	.2. Cutting copper and aluminum cable and crimping lug to them from 2.5mm2 to 6 mm2 cross section.
4 <sup>th</sup> WEEK	1 <sup>ST</sup> day 2 <sup>nd</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. 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	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	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	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	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	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	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	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	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	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	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	11. Overhaul a single phase and 3-phase variac.

  
 09.09.2024  
 (N. C. BEHERA)