



GOVT. POLYTECHNIC KORAPUT

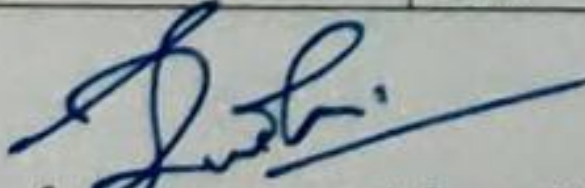
DEPARTMENT OF ELECTRICAL ENGG.

Discipline: ELECTRICAL	Semester: 6 TH	Name of the Teaching Faculty: Sandhya Kumari Randhi
Subject: ELECTRICAL WORKS PRACTICE	No. of Days/per week class allotted: 06	Semester From Date: _____ To Date: _____ No. of Weeks: 15
Week	Class Day	Theory/Practical Topics
1 st	01	Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire.
	02	Prepare Britannia T- joint.
	03	Prepare Married joint.
2 nd	01	Cutting copper and aluminum cable and crimping lug to them from 4mm ² to 25mm ² , cross section.
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	03	Cutting copper and aluminum cable and crimping lug to them from 4mm ² to 25mm ² , cross section.
3 rd	01	Connection and testing of fluorescent tube light– measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table .
	02	Connection and testing of high pressure M.V. lamp– measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table .
	03	Connection and testing of sodium vapor lamp– measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table .
4 th	01	Connection and testing of M.H lamp – measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table .
	02	Connection and testing of CFL – measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table .
	03	Connection and testing of and latest model lamps – measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table .
5 th	01	Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity)
	02	Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity)
	03	Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity)
6 th	01	Erection of residential building wiring by CTS wiring system using main two points
	02	Erection of residential building wiring by conduit wiring system using main two points.
	03	Test wiring installation by test lamp method and a meggar.
7 th	01	Fault finding & repairing of Fan – prepare an inventory list of parts.



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	02	Fault finding & repairing of Fan – prepare an inventory list of parts.
	03	Fault finding & repairing of Fan – prepare an inventory list of parts.
8 th	01	Find out fault of D.C. generator, repair and test it to run.
	02	Find out fault of D.C. generator, repair and test it to run.
	03	Find out fault of D.C. generator, repair and test it to run.
9 th	01	Find out fault of D.C. motor starters.
	02	Find out fault of A.C motor starters.
	03	Prepare an inventory list of parts used in different starters.
10 th	01	Use crimping tools to lug sockets on L.T. & H.T aluminum cable from 10mm ² to 50mm ² .
	02	Use crimping tools to lug sockets on L.T. & H.T aluminum cable from 10mm ² to 50mm ² .
	03	Use crimping tools to lug sockets on L.T. & H.T aluminum cable from 10mm ² to 50mm ² .
11 th	01	Dismantle, over haul and assemble a single phase induction motor. Test and run it. – prepare an inventory list.
	02	Dismantle, over haul and assemble a single phase induction motor. Test and run it. – prepare an inventory list.
	03	Dismantle, over haul and assemble a single phase induction motor. Test and run it. – prepare an inventory list.
12 th	01	Dismantle over haul and assemble a three phase squirrel cage and phase wound motor. Test and run them.
	02	Dismantle over haul and assemble a three phase squirrel cage and phase wound motor. Test and run them.
	03	Dismantle over haul and assemble a three phase squirrel cage and phase wound motor. Test and run them.
13 th	01	Overhaul a single phase / 3 phase variac.
	02	Overhaul a single phase / 3 phase variac.
	03	Overhaul a single phase / 3 phase variac.
14 th	01	Practice of all previous experiment.
	02	Practice of all previous experiment.
	03	Practice of all previous experiment.
15 th	01	Practice of all previous experiment.
	02	Practice of all previous experiment.
	03	Practice of all previous experiment.


Signature of concerned faculty


H.G.D Electrical