GOVERNMENT POLYTECHNIC KORAPUT

Pr1.ELECTRICAL WORKSHOP PRACTICE

Name of the Course: Diploma in Electrical Engineering			
Faculty: Mahesh Kumar Biswal			
Course code:	Pr1	**Semester**	6th
Total Period:	90	Date- From **-14 /02/2023**	**to-23/05/2023**
Theory Periods:	6P/week	**Examination**	3hrs
		Term work	25
Maximum marks:	150	**End Semester Examination:**	100

DEPARTMENT OF ELECTRICAL

Vision:-

To create competent and industry ready Electrical diploma engineers with professional and social values to meet future challenges.

Mission:-

- To prepare diploma holders through "qualitative competency based education system" to compete with national requirement along with core values
- To produce dynamic Electrical Engineers to serve the society and industry .
- To develop leadership qualities, communication skills, critical thinking and attitude for Lifelong learning.

Program educational objectives:-

PEO1:	Apply technical knowledge and skills learned in the field of Electrical Engineering to excel in professional and/or higher education.
PEO2:	to provide students an excellent academic environment and make them aware the needs of Society and Industry to become a successful Professional/Entrepreneur.
PEO3:	To engage in lifelong learning, career enhancement to adopt emerging technologies

Course outcomes:-

Co1	To acquire knowledge of various tools, machine, devices used in engineering fields.
Co2	Explore the knowledge of carrying out various operations in electrical engineering workshop.
Co3	Analyze for fault finding, repairing of DC and AC machine.
Co4	Develop skill in basic engineering practice for creating object from raw material.

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LESSONPLAN

Week	Day	Theorytopic
1st	1st	Identification ofsingle core(SC), twin core(TC),three cores(3c), fourcores(4c);copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia T-jointand Marriedjoint
	2nd	do
	3rd	do
	4th	do.
	5TH	do
	6th	do
2nd	1st	Cutting copper and aluminum cable and crimping lug to them from 2.5mm^2 to 6 mm^2cross section
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	do
3rd	1st	Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vaporlamp,M.Hlamp,CFLandlatestmodellamps— measureinductance,Lux/lumens(intensity ofillumination)ineachcase-prepareluxtable
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	do
4th	1st	Study battery charger and make charging of lead acid battery (record charging voltage,currentand specificgravity).
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	do
5th	1st	Erection of residential building wiring by CTS and conduit wiring system using main twopointsandtestinstallationbytestlamp method anda meggar
	2nd	Do
	3rd	do
	4th	do
	5th	do
	6th	do
6th	1st	Faultfinding&repairingofCeilingFan–prepare aninventorylistofparts.
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	do
7th	1st	Findout fault ofD.C.generator, repair and testit to run
	2nd	do

	3rd	do
	4th	do
	5th	do
	6th	do
8th	1st	FindoutfaultofD.C.motorstartersandA.Cmotorstarter–prepareaninventorylistofpartsusedindifferentstarters
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	do
9th	1st	Dismantle,overhaulandassembleasinglephaseinductionmotor.Testandrunit.—prepareaninventorylist
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	do
10th	1st	Dismantleoverhaulandassembleathreephasesquirrelcageandphase woundmotor.Testand run them
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	do
11th	1st	Overhaulasinglephaseand3-phase variac
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	do
12th	1st	Revision of previous experiments
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	Do
13th	1st	Revision of previous experiments
	2nd	Do
	3rd	do
	4th	do
	5th	do
	6th	do
14th	1st	Revision of previous experiments
	2nd	do
	3rd	do

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	4th	do
	5th	do
	6th	do
15th	1st	Revision of previous experiments
	2nd	do
	3rd	do
	4th	do
	5th	do
	6th	do

13/02/23

Signature of HOD (electrical)

Mahesh Ku Behera 13/02/23

Signature of faculty