

LESSON PLAN

SUB: ELECTRICAL MACHINE LAB - II

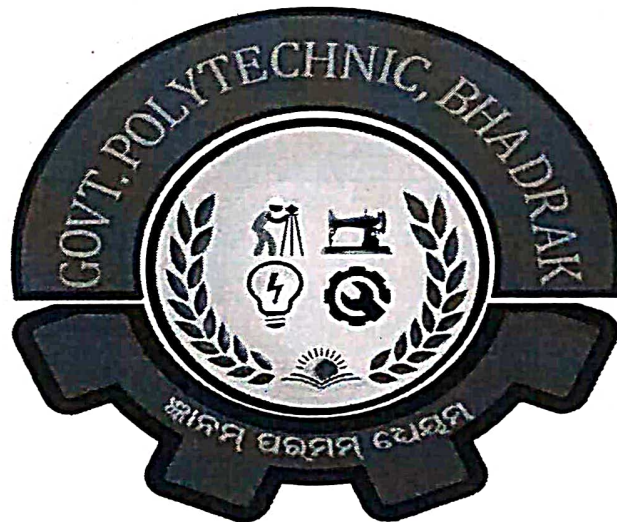
BRANCH:- ELECTRICAL ENGG.

SEMESTER: 5th

SESSION:2024-2025



NAME OF FACULTY: NIBEDITA HO



**GOVERNMENT POLYTECHNIC,
BHADRAK**

Hod. Electrical
HOD (ELECT.)
G.P. BHADRAK


Academic Co-ordinator
Academic Co-ordinator

Principal
Govt. Polytechnic, Bhadrak
Principal
Govt. Polytechnic
Bhadrak

Discipline: Electrical Engg.	Semester: 5 th	Name of the Teaching Faculty : Nibedita Ho
Subject: Electrical Machine Lab - II	No. of Days/per week class allotted: 6	Semester from date: 01.07.2024 to 08.11.2024 No. of Weeks:15
Week	Class Day	Theory
1 st	E2	Study of (Manual and Semi automatic) Direct on Line starter, Star-Delta starter, connection and running a 3- phase Induction motor and measurement of starting current.
	E1	Study of (Manual and Semi automatic) Direct on Line starter, Star-Delta starter, connection and running a 3- phase Induction motor and measurement of starting current.
	E2	Study of (Manual and Semi automatic) Direct on Line starter, Star-Delta starter, connection and running a 3- phase Induction motor and measurement of starting current.
	E1	Study of (Manual and Semi automatic) Direct on Line starter, Star-Delta starter, connection and running a 3- phase Induction motor and measurement of starting current.
2 nd	E2	Study of (Manual and Semi automatic) Auto transformer starter and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current.
	E1	Study of (Manual and Semi automatic) Auto transformer starter and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current.
	E2	Study of (Manual and Semi automatic) Auto transformer starter and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current.
	E1	Study of (Manual and Semi automatic) Auto transformer starter and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current.
3 rd	E2	Study and Practice of connection & Reverse the direction of rotation of 3 Phase Induction motor.
	E1	Study and Practice of connection & Reverse the direction of rotation of 3 Phase Induction motor.
	E2	Study and Practice of connection & Reverse the direction of rotation of 3 Phase Induction motor.
	E1	Study and Practice of connection & Reverse the direction of rotation of 3 Phase Induction motor.
4 th	E2	Study and Practice of connection & Reverse the direction of rotation of Single Phase Induction motor.
	E1	Study and Practice of connection & Reverse the direction of rotation of Single Phase Induction motor.
	E2	Study and Practice of connection & Reverse the direction of rotation of Single Phase Induction motor.
	E1	Study and Practice of connection & Reverse the direction of

		rotation of Single Phase Induction motor.
5 th	E2	OC and SC test of alternator and determination of regulation by synchronous impedance method.
	E1	OC and SC test of alternator and determination of regulation by synchronous impedance method.
	E2	OC and SC test of alternator and determination of regulation by synchronous impedance method.
	E1	OC and SC test of alternator and determination of regulation by synchronous impedance method.
6 th	E2	OC and SC test of alternator and determination of regulation by synchronous impedance method.
	E1	OC and SC test of alternator and determination of regulation by synchronous impedance method.
	E2	Determination of regulation of alternator by direct loading.
	E1	Determination of regulation of alternator by direct loading.
7 th	E2	Determination of regulation of alternator by direct loading.
	E1	Determination of regulation of alternator by direct loading.
	E2	Parallel operation of two alternators and study load sharing.
	E1	Parallel operation of two alternators and study load sharing.
8 th	E2	Parallel operation of two alternators and study load sharing.
	E1	Parallel operation of two alternators and study load sharing.
	E2	Measurement of power of a 3-phase Load using two wattmeter method and verification of the result using one 3- phase wattmeter.
	E1	Measurement of power of a 3-phase Load using two wattmeter method and verification of the result using one 3- phase wattmeter.
9 th	E2	Measurement of power of a 3-phase Load using two wattmeter method and verification of the result using one 3- phase wattmeter.
	E1	Measurement of power of a 3-phase Load using two wattmeter method and verification of the result using one 3- phase wattmeter.
	E2	Connection of 3-phase energy meter to a 3-phase load.
	E1	Connection of 3-phase energy meter to a 3-phase load.

10 th	E2	Connection of 3-phase energy meter to a 3-phase load.
	E1	Connection of 3-phase energy meter to a 3-phase load.
	E2	Connection of 3-phase energy meter to a 3-phase load.
	E1	Connection of 3-phase energy meter to a 3-phase load.
11 th	E2	Heat run test of 3-phase transformer.
	E1	Heat run test of 3-phase transformer.
	E2	Heat run test of 3-phase transformer.
	E1	Heat run test of 3-phase transformer.
12 th	E2	Study of an O.C.B.
	E1	Study of an O.C.B.
	E2	Study of an O.C.B.
	E1	Study of an O.C.B.
13 th	E2	Study of induction type over current /reverse power relay.
	E1	Study of induction type over current /reverse power relay.
	E2	Study of induction type over current /reverse power relay.
	E1	Study of induction type over current /reverse power relay.
14 th	E2	Study of Buchholz's relay.
	E1	Study of Buchholz's relay.
	E2	Study of Buchholz's relay.
	E1	Study of Buchholz's relay.
15 th	E2	Study of an earth fault relay.
	E1	Study of an earth fault relay.
	E2	Study of an earth fault relay.
	E1	Study of an earth fault relay.


 Lect. in Elect. Engg.
 Govt. Poly. Bhadrak