

GOVERNMENT POLYTECHNIC, BARGRAH

DEPARTMENT OF ELECTRICAL ENGINEERING



**LESION PLAN**

**WORKSHOP PRACTICE-3**

**PREPARED BY:**

**ARUN KUMAR SAHU**

**LECTURE IN MECHANICA ENGINEERING**

**(PTGF)**

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## GOVERNMENT POLYTECHNIC, BARGARH

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### VISION

To be a reputed polytechnic institute imparting quality technical education to produce diploma engineers with dynamic personalities and innovative competencies in the state of Odisha.

### MISSION

**M1:-** To offer the best and advanced lab facilities adhering to the curriculum to make future engineers.

**M2:-** To engage highly qualified and competent faculties to make the student acquire the skillful knowledge required.

**M3:-** To develop an excellent teaching learning environment leading to create the best institute.

### DEPT OF ELECTRICAL ENGINEERING, G.P. BARGARH

#### VISION

To produce Electrical Engineering professionals who can contribute for socio-economic and technological development to meet global needs.

#### MISSION

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**M1:-** To strengthen academic infrastructure leading to quality professional by using modern technical tools and technologies.

**M2:-** To impart innovative knowledge among the students and make more industry-institution programs to make them successful professionals for serving the society.

**M3:-** To provide a learning environment to improve problem solving abilities, leadership abilities, ethical responsibilities and lifelong learning.

#### PROGRAM EDUCATIONAL OBJECTIVE (PEO)

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**PEO1:-** To obtain basic and advanced knowledge in Electrical Engineering for employment in public/private sector organizations.

**PEO2:-** To encourage the students for higher studies by acquiring knowledge in the basic and emerging areas of Electrical Engineering.

**PEO3:-** To become entrepreneurs to showcase innovative ideas.

**PEO4:-** To have a well-rounded education that includes excellent communication skills, working effectively on team-based projects, ethical and social responsibilities.

## Pr3. MECHANICAL WORKSHOP PRACTICE

Name of the Course: Diploma in Electrical Engineering			
Course code:		Semester	3 <sup>rd</sup>
Total Period:	90	Examination:	3 hrs
Lab. periods:	6 P / week	Sessional:	25
Maximum marks:	75	End Semester Examination ::	50

### 1. Carpentry:

- 1 . 1 Name of carpentry tools and uses
- 1 . 2 Different operations
  - a. Sawing
  - b. Planning
  - c. Chiseling
- 1 . 3 Measuring & Marking
- 1 . 4 Different types of timbers used by carpenters, substitutions of timbers.
- 1 . 5 Jobs :
  - a. Slot. Notch
  - b. Mortise and tenon joint
  - c. Single dovetail joint

### 2. Turning

Study of S. C. Lathes and their accessories, practice in lathe work involving various operations such as plane turning, step turning, taper turning, knuckling and external V. Threading. (One job only.)

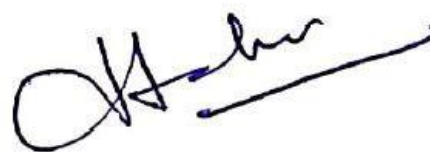
#### AFTER COMPLETION OF THE COURSE THE STUDENTS WILL BE ABLE TO

C201.1	Demonstrate the different types of carpentry tools and their application
C201.2	Demonstrate the S.C lathes and their different types of operation

SESSION :2023-2024 COURSE CODE:PR1 SEMSETER :3 <sup>RD</sup> PERIOD/WEEK:3 TOTAL PERIOD :30		NAME OF THE FACULTY:MRS CHITTA RANJAN MEHER COURSE NAME :MECHANICAL ENGG LAB DATE:01.08.2023 TO 30.11.2023
SL NO	DATE	
1	02.08.2023	Introduction carpentry shop
2	03.08.2023	Introduction carpentry shop
3	09.08.2023	Safety in workshop and carpentry shop
4	10.08.2023	Safety in workshop and carpentry shop
5	16.08.2023	Demonstration of different types of tools in carpentry shop
6	17.08.2023	Demonstration of different types of tools in carpentry shop
7	23.08.2023	Discusses the different types of operation in carpentry shop
8	31.08.2023	Discusses the different types of operation in carpentry shop
9	07.09.2023	Study of different types of timber and material selection for job
10	13.09.2023	Study of different types of timber and material selection for job
11	14.09.2023	Sawing operation
12	21.09.2023	Planning operation
13	27.09.2023	Chiseling operation
14	28.09.2023	Measuring and Marking
15	04.10.2023	Slot. Notch
16	05.10.2023	Mortise and Tenon joint
17	11.10.2023	Single dovetail joint
18	12.10.2023	Introduction to Turning shop
19	18.10.2023	Study of S.C Lathes
20	01.11.2023	Lathe accessories
21	02.11.2023	Practice in Lathe
22	08.11.2023	Discusses the different types of Lathe operation
23	09.11.2023	Plane Turning
24	15.11.2023	Step turning
25	16.11.2023	Tapper turning
26	22.11.2023	knuckling
27	23.11.2023	External V Threading
28	29.11.2023	Mechanical work shop summary
29	30.11.2023	Job submission
30	Extra class	Revision

*Arun Kumar Sahu*

**SIGANTURE OF FACULTY**



**SIGNATURE OF HOD**

**DEPARTMENT OF MECHANICAL ENGG**