

GOVT.POLYTECHNIC, GAJAPATI, PARALAKHEMUNDI

Academic Lesson Plan for Summer Semester- 2025-26

Name of the Teaching Faculty: Er. Aswin Pradhan

Semester: 2nd

No. of Periods per Week: 4

End Semester Exam: 75

Total Marks: 100

Semester from Date: 09/01/2026

No. of weeks: 15

Department: Mechanical Engineering

Subject: ENGG. Workshop Practice

Total Periods: 60

Sessional: 25

Practical – 3(b)

To Date: 08/05/2026

W.e.f: 09/01/2026 (15 Weeks)

Sl. No.	Week	Period	Topic to be covered
1.	1 st	1 st	Introduction to EnggWorkshop Practice, Discussion the experiments, Marks Evaluation Scheme, Rule & Regulations of Lab.
2.		2 nd	
3.		3 rd	
4.		4 th	
5.	2 nd	1 st	Safety Rules
6.		2 nd	
7.		3 rd	
8.		4 th	
9.	3 rd	1 st	Carpentry: i) Demonstration of different wood working tools / machines. ii) Demonstration of different wood working processes, like planing, marking, chiseling, grooving, turning of wood etc. iii) One simple job involving any one joint like mortise and tenon dovetail, bridge, half lap etc.
10.		2 nd	
11.		3 rd	
12.		4 th	
13.	4 th	1 st	Continue the Job
14.		2 nd	
15.		3 rd	
16.		4 th	
17.	5 th	1 st	Fitting: i) Demonstration of different fitting tools and drilling machines and power tools ii) Demonstration of different operations like chipping, filing, drilling, tapping, sawing, cutting etc. iii) One simple fitting job involving practice of chipping, filing, drilling, tapping, cutting etc
18.		2 nd	
19.		3 rd	
20.		4 th	
21.	6 th	1 st	Continue the Job
22.		2 nd	
23.		3 rd	
24.		4 th	
25.	7 th	1 st	Welding: i) Demonstration of different welding tools / machines. ii) Demonstration on Arc Welding, Gas Welding, MIG, MAG welding, gas cutting and rebuilding of broken parts with welding. iii) One simple job involving butt and lap joint
26.		2 nd	
27.		3 rd	
28.		4 th	
29.	8 th	1 st	Continue the Job
30.		2 nd	
31.		3 rd	
32.		4 th	

33.	9 th	1 st	Sheet Metal Working: i) Demonstration of different sheet metal tools / machines. ii) Demonstration of different sheet metal operations like sheet cutting, bending, edging, end curling, lancing, soldering, brazing, and riveting. iii) One simple job involving sheet metal operations and soldering and riveting.
34.		2 nd	
35.		3 rd	
36.		4 th	
37.	10 th	1 st	Continue the Job
38.		2 nd	
39.		3 rd	
40.		4 th	
41.	11 th	1 st	Electrical House Wiring: Practice on simple lamp circuits (i) one lamp controlled by one switch by surface conduit wiring, (ii) Lamp circuits-connection of lamp and socket by separate switches, (iii) Connection of Fluorescent lamp/tube light, (iv) simple lamp circuits-in- stall bedroom lighting. And (v) Simple lamp circuits- install stair case wiring.
42.		2 nd	
43.		3 rd	
44.		4 th	
45.	12 th	1 st	Do
46.		2 nd	
47.		3 rd	
48.		4 th	
49.	13 th	1 st	Demonstration: i) Demonstration of measurement of Current, Voltage, Power and Energy. ii) Demonstration of advance power tools, pneumatic tools, electrical wiring tools and accessories. iii) Tools for Cutting and drilling
50.		2 nd	
51.		3 rd	
52.		4 th	
53.	14 th	1 st	Do
54.		2 nd	
55.		3 rd	
56.		4 th	
57.	15 th	1 st	Sessional & Viva
58.		2 nd	
59.		3 rd	
60.		4 th	

The above lesson plan prepared by the concerned faculty.

Er.Aswin Pradhan
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GP Gajapati, Paralakhemundi