



GOVERNMENT POLYTECHNIC, NABARANGPUR
DEPARTMENT OF MECHANICAL ENGINEERING

Discipline:
**MECHANICAL
ENGG**

Semester:
6TH

Name of the Teaching Faculty: Lect. Deepak Ranjan Pattnaik

Subject: **AE
LAB**

No. of
days/per
week class
allotted: **04**

Semester From date: 14.02.2023 To Date:
No of Weeks: **15**

**COURSE
OUTCOMES**

1. Comprehending required material properties for cutting tools
2. Comprehending machining mechanism principle and factors affecting machining performance
3. Comprehending working principle and components in machining tools including lathe, milling, shaping, planing, slotting machines
4. Comprehending requirement of surface finish and realize principles involved in grinding and super finishing operations

Week	Class Day	Theory/Practical Topics
1 ST	1-2	INTRODUCTION
	3-4	1. Study of Automobile chassis.(Contd...)
2 ND	1-2	1. Study of Automobile chassis.
	3-4	QUIZ AND ASSIGNMENT
3 RD	1-2	2. Study the differential mechanism of the Tractor.(Contd...)
	3-4	2. Study the differential mechanism of the Tractor.
4 TH	1-2	QUIZ AND ASSIGNMENT
	3-4	3. Study the hydraulic braking system of automobile.(Contd...)
5 TH	1-2	3. Study the hydraulic braking system of automobile.(Contd...)
	3-4	3. Study the hydraulic braking system of automobile.
6 TH	1-2	QUIZ AND ASSIGNMENT
	3-4	4. Study the cut section model of carburetor solex type and maruti car type.(Contd...)
7 TH	1-2	4. Study the cut section model of carburetor solex type and maruti car type.
	3-4	QUIZ AND ASSIGNMENT
8 TH	1-2	4. Study Study the cut section model of carburetor solex type and maruti car type.(Contd...)
	3-4	4. Study the cut section model of carburetor solex type and maruti car type.(Contd...)
9 TH	1-2	4. Study Study the cut section model of carburetor solex type and maruti car type.
	3-4	5. Study the fuel pump cut section model(Contd...)
10 TH	1-2	5. Study the fuel pump cut section model(Contd...)
	3-4	5. Study the fuel pump cut section model
11 TH	1-2	QUIZ AND ASSIGNMENT
	3-4	6. Study the actual cut section of gear box.(Contd...)
12 TH	1-2	6. Study the actual cut section of gear box.(Contd...)
	3-4	6. Study the actual cut section of gear box.
13 TH	1-2	QUIZ AND ASSIGNMENT

	3-4	7. Study of actual car engine. (Contd...)
14 TH	1-2	7. Study of actual car engine. (Contd...)
	3-4	7. Study of actual car engine.
15 TH	1-2	LAB RECORD SUBMISSION
	3-4	LAB RECORD SUBMISSION

A
13/11/2023
Sign. Of HOD / LC

[Signature]
13/11/23
Academic Coordinator

[Signature] (Deepak R. Pattnaik)
13.02.23
Sign. Of Faculty
Concerned

[Signature]
Principa
13/2/23