

## GOVERNMENT POLYTECHNIC, NABARANGPUR DEPARTMENT OF AUTOMOBILE ENGINEERING

Discipline: AUTOMOBILE ENGG.	Name of the Teaching Faculty: RABINDRA PRASAD F	
Subject: AUTOMOTIVE TRANSMISSION	No. of days/per week class allotted: 4	No. of Weeks: 12

## COURSE OUTCOMES

Functions, types, requirements & adjustment of clutch.

CO2:

Function, types & operation of gearbox.

CO3:

Functions of propeller shaft & types of joints

CO4:

Functions & types of differentials.

CO5

Types & operation of real axel.

COG

Transmission of power in two-wheelers.

Week	Class Day	Theory/Practical Topics
1ST	1 <sup>st</sup>	1. Clutch 1.1 Introduction, requirement of clutch,
	2 <sup>ND</sup>	types of clutches.
	3 <sup>RD</sup>	1.2 Clutch operation.
	4тн	1.3 Clutch components, clutch facing.
2 <sup>ND</sup>	187	1.4 Clutch problem &adjustment.
	2ND	1.5 Fluids fly wheel &coupling.

All Associates	3RD	2. Gear Box	
	Maria Maria	2.1 Introduction functions, types of transmission.	
	4TH	types of transmission.	
3RD	ĮST	REVISION	
	2 <sup>ND</sup>	2.2 Sliding mesh & constant mesh gearbox.	TOTAL STATE OF THE
	3RD	2.2 Sliding mesh & constant mesh gearbox.	The state of the s
	4 <sup>n</sup>	2.3 Epicyclical gear box overdrive.	Allow to control of the first terms
<b>4</b> <sup>тн</sup>	1 <sup>ST</sup>	2.4 Free-wheel drive, selector mechanism.	Water Sales
	2 <sup>ND</sup>	2.4 Free-wheel drive, selector mechanism.	
	3 <sup>RD</sup>	2.5 Fluid torque converter.	
	4 <sup>TH</sup>	3. Propeller shaft 3.3 Introduction definition & types of propeller shaft.	
5 <sup>TH</sup>	1 <sup>sr</sup>	3.2 Universal joints & its types.	
	2 <sup>ND</sup>	3.2 Universal joints & its types. 3.4 Sliding joint.	
	3 <sup>RD</sup>	4. Differential 4.1 Function of differential gear box.	
	4 <sup>'1H</sup>	4.2 Types of differentials.	
6 <sup>TH</sup>	1 <sup>ST</sup>	4.2 Types of differentials.	
	2 <sup>ND</sup>	4.3 Constructional details of a differential.	
	3 <sup>RD</sup>	4.3 Constructional details of a differential.	
	<b>4</b> <sup>TH</sup>	4.3 Constructional details of a differential. 4.4 Study & inspection of differential.	
7 <sup>TH</sup>	1 <sup>ST</sup>	REVISION	
	2 <sup>ND</sup>	5. Rear Axle 5.1 Definition of rear axle, supporting of rear axle.	

1. Automotive mechanics by Heitner, CBSpublishers,

2. The automobile by Harbans Singh Reyat, S. Chand & Co.

3. Automobile Engineering by G.B.S. Narang, Khannapublishers.

4. Automobile Engineering Volume-1 by Dr. Kipal singh, stdPublisher. 5. Automobile Engineering & power Yrain by W.H.Crouse. Mc Graw Hills.

6. Motor manual (Transmission) by A.N.Judge.

7. Motor manual (Car mechanism) by A. N.Judge.

ACADEMIC COORDINATOR

PRINCIPAL