

5th SEM 01.10.2021-08.01.2022(WINTER)

LESSON PLAN

AUTOMOTIVE TRANSMISSION (TH2)

ER. NILAKKANTHA NAYAK

(LECTURER IN AUTOMOBILE ENGG.)

B.O.S.E., CUTTACK

AUTOMOBILE ENGINEERING DEPARTMENT

VISSION:

To develop competent, disciplined imaginative Automobile engineers, equipped with core competency and technical skills useful to the learning / teaching community and the industrial fraternity.

MISSION:

M1: To provide with operational and technical inputs to get innovative and research ideas in the field of automotive engineering.

M2: To give inputs for higher education with management qualities for the betterment of the society.

M3: Skilling with modern engineering tools necessary to meet and solve engineering problems.

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: To provide technical skills to diagnose and apply the concept of automotive system

PEO2: To prepare to design, fabricate and innovate in automobile sector to face the industrial challenges.

PEO3: To inculcate with good communication skills, ethics and entrepreneurship skills to play the key role in automotive industry.

Discipline:-Automobile Engg.		Semester :-5 TH	Name of the teaching faculty :- NILAKANTHA NAYAK
Subject Name :- AUTOMOTIVE TRANSMISSION		No. Of Days/Week Class Allotted :- <u>04 Periods/Week</u> (Monday, Tuesday , Wednesday, Thursday – 1 Period Each)	Semester from Date -01/10/2021 To Date -08/01/2021 No. of Weeks:15
Week	Class Day	Theory topics	
1 ST	1.10.2021	No class as per time Table	
	2.10.2021	Holiday	
2 ND	4.10.2021	Introduction of Automotive System	
	5.10.2021	1. Clutch	
	6.10.2021	1.1 Introduction, requirement of clutch, types of clutch.	
	7.10.2021	HOLIDAY	
3 RD	10.10.2021-20.10.2021	1.1 Introduction, requirement of clutch, types of clutch.	
4 TH	21.10.2021	PUJA HOLIDAY	
		1.2 Clutch operation.	
		1.3 Clutch components, clutch facing.	
5 TH	25.10.2021	1.4 Clutch problem & adjustment.	
	26.10.2021	1.5 Fluids fly wheel & coupling	
	27.10.2021	2. Gear Box	
	28.10.2021	2.1 Introduction, functions & types of transmission.	
		2.2 Sliding mesh & constant mesh gearbox.	
6 TH	1.11.2021	2.2 Sliding mesh & constant mesh gearbox.	
	2.11.2021	2.3 Epicyclical gear box overdrive.	
	3.11.2021	2.4 Free-wheel drive, selector mechanism.	

7 TH	8.11.2021	2.5 Fluid torque converter.
	9.11.2021	3. Propeller shaft
	10.11.2021	3.1 Introduction definition & types of propeller shaft.
	11.11.2021	3.1 Introduction definition & types of propeller shaft.
		CLASS TEST
8 TH	15.11.2021	3.2 Universal joints & its types.
	16.11.2021	3.3 Sliding joint.
	17.11.2021	3.3 Sliding joint.
	18.11.2021	3.3 Sliding joint.
9 TH	22.11.2021	4. Differential
		4.1 Function of differential gear box.
	23.11.2021	4.2 Types of differential.
	24.11.2021	4.2 Types of differential.
	25.11.2021	4.3 Constructional details of a differential.
10 TH	29.11.2021	4.4 Study & inspection of differential
	30.11.2021	4.4 Study & inspection of differential
	1.12.2021	Discussion of previous chapter and Assignment
	2.12.2021	CLASS TEST
11 TH	6.12.2021	5. Rear Axle
		5.1 Definition of rear axle, supporting of rear axle.
	7.12.2021	5.2 Rear axle drives such as Hotchkiss drive, torque tube drive etc.
	8.12.2021	5.2 Rear axle drives such as Hotchkiss drive, torque tube drive etc.
	9.12.2021	5.3 Types of rear axle.
12 TH	13.12.2021	5.4 Rear axle casing.
	14.12.2021	6. Two wheeler
		6.1 Power transmission system of moped.

