

GOVT. POLYTECHNIC BOLANGIR

LESSON PLAN

Discipline : Automobile	Semester: 5th	Name of the Teaching Faculty : Kumar Gyanadeep
Subject : AUTOMOTIVE TRANSMISSION	No. of Days / per week class allotted : 4	Semester From date : 15.09.2022 to Date :22.12.2022 No. of Weesks : 14
Week	Class Day	Topics
3RD SEP	1st	Clutch -Introduction, requirement of clutch, types of clutch.
	2nd	Clutch operation.
	3rd	Clutch components, clutch facing.
	4th	Clutch problem & adjustment
4TH SEP	1st	Fluids fly wheel & coupling
	2nd	Revision
	3rd	Gear Box -Introduction, functions & types of transmission.
	4th	Sliding mesh & constant mesh gearbox
2ND OCT	1st	Epicyclical gear box overdrive
	2nd	Free-wheel drive, selector mechanism
	3rd	Fluid torque converter
	4th	Revision
3RD OCT	1st	Propeller shaft - Introduction definition & types of propeller shaft
	2nd	Universal joints & its types.
	3rd	Sliding joint.
	4th	Revision
4TH OCT	1st	Differential-Function of differential gear box.
	2nd	Types of differential
	3rd	Types of differential
	4th	Constructional details of a differential.
1ST NOV	1st	Constructional details of a differential.
	2nd	Study & inspection of differential.
	3rd	Study & inspection of differential.
	4th	Revision
2ND NOV	1st	Rear Axle -Definition of rear axle,
	2nd	supporting of rear axle
	3rd	Rear axle drives such as Hotchkiss drive,
	4th	torque tube drive
3RD NOV	1st	Types of rear axle.
	2nd	Revision
	3rd	Two wheeler-Power transmission system of moped.
	4th	Power transmission system of scooter
4TH NOV	1st	Power transmission system of motorcycle
	2nd	Power transmission system of bullet
	3rd	Revision
	4th	Performance of Automobile -Power for propulsion resistances for vehicle.
1ST DEC	1st	Traction & tractive effort, road performance curves.
	2nd	Road performance curves.
	3rd	Road performance curves.
	4th	Acceleration grad ability & draw-bar pull

2ND DEC	1st	Calculation of equivalent weight.
	2nd	Calculation of equivalent weight.
	3rd	Acceleration grad ability & draw-bar pull
	4th	Acceleration grad ability & draw-bar pull
3RD DEC	1st	Calculation of maximum traffic effort.
	2nd	Calculation of maximum traffic effort.
	3rd	Revision
	4th	Revision

