

**GOVT. POLYTECHNIC BOLANGIR**

**LESSON PLAN**

Discipline : Automobile	Semester: 5th	Name of the Teaching Faculty : Kumar Gyanadeep
Subject : AUTOMOBILE ELECTRICITY	No. of Days / per week class allotted : 4	Semester From date : 15.09.2022 to Date :22.12.2022 No. of Weesks : 13
Week	Class Day	Topics
3RD SEP	1st	<b>Storage Battery</b> - Purpose and types of battery.
	2nd	Construction capacity
	3rd	charging of battery
	4th	Testing servicing battery
4TH SEP	1st	maintenance of battery
	2nd	Revision
	3rd	<b>Starting System</b> - Principle and construction of starter motor.
	4th	Drive arrangement and control.
2ND OCT	1st	Servicing and maintenance of starter motor.
	2nd	Revision
	3rd	<b>Generating system</b> - Flemings right hand rule and Lenz's law.
	4th	Principle and constructional details of generator.
3RD OCT	1st	Current and voltage regulator
	2nd	Cut-out relay,
	3rd	routine maintenance of generator
	4th	Revision
4TH OCT	1st	<b>Alternator</b> - Principle and construction of alternator.
	2nd	Maximum R.M.S. and average value.
	3rd	Maintenance of alternator
	4th	Revision
1ST NOV	1st	<b>Ignition System</b>
	2nd	Principle and components of spark ignition system-induction coil,
	3rd	Contact breaker
	4th	Spark plug
2ND NOV	1st	Distributor
	2nd	Condenser
	3rd	Electronics spark timing computer controlled coil ignition system operation
	4th	Electronics ignition system with distributor
3RD NOV	1st	Electronics ignition system with distributor less.
	2nd	Types of ignition system such as:- Coil ignition system
	3rd	magnet ignition system
	4th	electronics ignition system, transistorized ignition system.
4TH NOV	1st	Ignition system servicing and fault diagnosis.
	2nd	Revision
	3rd	<b>Light</b> -Setting of headlights
	4th	Tail and stoplights.
1ST DEC	1st	Indicator and dim deeper mechanism.
	2nd	Revision
	3rd	Accessories & Control
	4th	Electric horn and screen wiper.

<b>2ND DEC</b>	1st	Fuel gauge oil pressure gauge and water temperature gauge
	2nd	Revision
	3rd	<b>Wiring system</b>
	4th	Types of wiring such as:- Earth returns and insulated return system
<b>3RD DEC</b>	1st	Wiring diagram of four wheelers and two wheelers.
	2nd	Elective wiring layout in a four wheeler
	3rd	Inspection and maintenance of electrical systems
	4th	Revision



