

GOVERNMENT POLYTECHNIC, NABARANGPUR

Strive for Technology	DEPARTMENT OF AUTOMOBILE ENGINEERING		
Discipline: AUTOMOBILE ENGG.	Semester: 5 th	Name of the Teaching Faculty: RABINDRA PRASAD RATH	
Subject: AUTOMOBILE ELECTRICITY	No. of days/per week class allotted: 4	Semester From date: 16-08-2024 To Date: 08-11-2024 No. of Weeks: 12	
COURSE OUTCOMES	CO2: Constru CO3: Principl	construction, charging, testing and maintenance of battery. ction, drive arrangement, principle and operation of starter. e, construction and maintenance of generator. al construction and maintenance of alternator.	
	CO5: Types and components of ignition system. CO6: Setting and mechanism of light.		
	No.	ism of several electrical accessories. The interest of a control of the interest of the inter	
Week	Class Day	Theory/Practical Topics	
1 ST	1ST	1. Storage Battery 1.1 Purpose and types of battery.	
andytem opera	2 ND	1.2 Construction capacity and charging of battery.	
seas o moteve noth	3RD 16 16 16 16 16 16	1.2 Construction capacity and charging of battery.	
	ден 4тн годи	1.3 Testing servicing and maintenance of battery.	
2 ND	4 461338h 70700	2. Starting System 2.1 Principle and construction of starter motor.	
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2.1 Principle and construction of starter motor.

	3RD	2.2 Drive arrangement and control	I de sono de se	
	AMATINE V	2008년 전 1912년 전 1212년 전 1212년 전 1212년 전 1212년 - 1212년 전 1212년 전 1212년 전 1212년 전 1212년 전 1212년 전 1212년 전 1212년		
	4TH	2.3 Servicing and maintenance of starter motor.		
			[grapher manna]	
3 RD	1 ST	REVISION	Discipline:	
10.000 E. 10.000	2 ND	3.1 Flemings right hand rule and Lenz's law.	AUTOMOBILE ENGG,	
2124	3RD	3.1 Flemings right hand rule and Lenz's law.	Subject	
	4 ^m	3.2 Principle and constructional details of generator.	AUTOMOBILE ELECTRICITY	
4 TH	1 ST	3.2 Principle and constructional details of generator.	COLRSE	
	2 ND	3.3 Current and voltage regulator.	OUTCOMES	
	2.00	5.3 Current and voltage regulator.		
	3RD	3.4 Cut-out relay, routine maintenance of generator.		
	4 TH	REVISION & BORNING REVISION		
5 TH	181	4. Alternator 4.1 Principle and construction of alternator.		
	2 ND	4.1 Principle and construction of alternator		
	3 RD	4.2 Maximum R.M.S. and average value.		
	4 TH	4.3 Maintenance of alternator.	1	
6 TH	1 ST	Principle and components induction coil, contact breaker, s	park plug,	
	2 ND	distributor and condenser of spark ignition system.		
	3 RD	5.2 Electronics spark timing computer-controlled coil ignition system operation		
	4тн	5.2 Electronics spark timing computer-controlled coil ignition system operation		
7 TH	1 ST	5.3 Electronics ignition system with distributor/distributer le	988.	
	y de l	5.3 Electronics ignition system with distributor/distributer le		
	4	5.4 Types of ignition system such as: - Coil ignition system, system	magnet ignition	

		electronics ignition system, with a sufficient with a land region of the formation and the sufficient with the sufficient and t
8тн	1 ST	transistorized ignition system.
	2 ND	5.5 Ignition system servicing and fault diagnosis.

	3 RD	REVISION
	4 TH	
9тн	1 ST	6. Light 6.1 Setting of headlights.
SIGN OF HOLE	2 ND	6.2 Tail and stoplights.
	3 RD	6.3 Indicator and dim deeper mechanism.
	4TH	7. Accessories & Control 7.1 Electric horn and screen wiper.
10 TH	1 st	7.2 Fuel gauge oil
		pressure gauge
	in Plan	
F	2 ND	water temperature gauge
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_	3 RD	8. Wiring system
		8.1 Types of wiring such as:-Earth returns and insulated return system.
	4 TH	Earth returns and insulated return system
11 TH	1 ST	Wiring diagram of four wheelers
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	2 ND	Wiring diagram of four wheelers
		A Transfer of the second of th
	3 RD	Wiring diagram of two wheelers
-	4 TH	8.3 Elective wiring layout in a four-wheeler.
12 TH	1 st	8.3 Elective wiring layout in a four-wheeler.
12		0.5 Elective willing imposit in a vest
	2 ND	Inspection of electrical systems
_	3 RD	Maintenance of electrical systems
_	4 TH	REVISION
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RECOMMENDED BOOKS:

- 1. Electrical equipment of automobiles by Parker Singh.
- 2. Automobile electrical equipment by Kohil.
- 3. Basic automobile electricity by C.P.Nakra.
- 4. Automobile electrical engineering by Aroar & Das.
- 5. Automobile electrical system and equipments By M.R.Khatawata.
- 6. Motor manual (modern automobile electrical equipment) by A.W..Judge.
- 7. Automobile electrical equipments by W.H.Crouse, MC GrawHill.

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ACADEMIC COORDINATOR

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