



GOVERNMENT POLYTECHNIC, NABARANGPUR

DEPARTMENT OF AUTOMOBILE ENGINEERING

Discipline: AUTOMOBILE ENGG	Semester: 6TH	Name of the Teaching Faculty: Sri Rabindra Prasad Rath
Subject: DRIVING PRACTICE & VEHICLE MAINTENANCE	No. of days/per week class allotted: 06	Semester From date: 04.02.2025 To Date: 17.05.2025 No. of Weeks: 15
COURSE OUTCOMES	1. Gain confidence of making a product independently. 2. Drive a four wheeler car with confidence.	
Week	Class Day	Theory/Practical Topics
1 ST	1-3	INTRODUCTION
	4-6	
2 ND	1-3	Know the vehicle:
	4-6	Simple introduction to automobile engines and their working.
3 RD	1-3	Foot controls: Foot brake, accelerator, clutch-dipper (not in present models).
	4-6	CONTD.
4 TH	1-3	Hand controls: Steering wheel, hand brake, horn, light, wipers, ignition switch, starter, dipper and indicators.
	4-6	CONTD.
5 TH	1-3	Other controls: Rear-view mirror (right and left side), instrument cluster, gauges, dials wind-screen- their purpose.
	4-6	CONTD.
6 TH	1-3	Pre-driving checks
	4-6	Before sitting on driver's seat and After sitting driver's seat.
7 TH	1-3	Beginning to drive:
	4-6	Precaution just before moving. While moving sitting point Moving.
8 TH	1-3	Steering control.
	4-6	Changing of gear.
9 TH	1-3	Stopping Breaking
	4-6	Accelerator (gradual, sudden)
10 TH	1-3	Traffic sense, road sense, judgment, parking and positing according to road users.
	4-6	Driving on the road
	1-3	Reserving, anticipation, judgment and road positioning according to other road users.
	4-6	Maneuvers
	1-3	Merging and diverging maneuvers turning maneuvers to left, right, about 3-point turn, 5-point turn and u-turn, overtaking stationery vehicle, moving vehicle in left side and right side.
	4-6	Reversing
	1-3	Location reverse gear in sitting position, speed control, steering in reverse gear, weaving the 'S' bend and common errors.
	4-6	

	4-6	Parking Parallel, angular, perpendicular parking facing, downhill, common errors.
11 TH	1-3	Driver's responsibility Driving behavior, consideration for other road uses, Competitiveness over courtesy and confidence, impatience and defensive while on the road driving. Distance between cars.
	4-6	Priority for certain Emergency vehicles. Fire engines and ambulance. vehicles
12 TH	1-3	TRAFFIC EDUCATION-I 1. Driving regulations: Road use regulation made under section 118 of the motor vehicle act, 1988.
	4-6	Hand signals Traffic signs: Schedule to the motor vehicles Act, 1988 Introduction to automatic light signals. Introduction to road markings. Speed regulations on high ways and city roads. Parking at objectionable places.
13 TH	1-3	Some important provisions of the motor vehicles Act, 1988 section 122, 123, 125 and 128 of the motor vehicles Act, 1988. Test of competence to drive Sub-rule (3) of rule 15 of the central motor vehicles rules, 1989.
	4-6	Identification of various parts of the vehicles. Pre-driving checks Before sitting on driver's seat & After sitting on driver's seat. Steering practice Biting point Moving and gear changing Stopping Normal stopping Emergency stopping Developing judgment and anticipation to drive on road. Reversing In straight In 's' bends Turning and about parking Licensing
14 TH	1-3	Layout of vehicle Function of diesel and petrol engines Fuel system Fuel lines Fuel injection pump Atomizer Airlock Oil block
	4-6	Cooling system Purpose Radiator Water pump Fan leaf / fan belt Radiator water boiling rectification
15 TH	1-3	Lubrication system purpose Vehicle –service, repair, and overhaul Engine removal and disassembly Clutch repair and service Diagnosing of brake system

		Wheel & tyre repair & service
	4-6	Steering system service & repair
LAB RECORD SUBMISSION		

Robinda Rath
 Sign. Of Faculty
 Concerned

Prof. S. S. S.
 Sign. Of HOD I/C

Prof. S. S. S.
 Academic Coordinator

[Signature]
 Principal
 7/2/20