

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF AUTOMOBILE ENGINEERING
LESSON PLAN

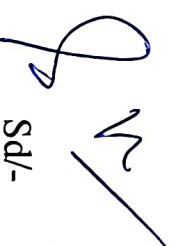
BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF AUTOMOBILE ENGINEERING



LESSON PLAN

SUBJECT: VEHICLE MAINTENANCE & MOTOR VEHICLE ACT
FACULTY: M.B.BISWABANDITA

ACCADEMIC SESSION: 2023-24 (5)
SEMESTER: 6TH


Sd/-

H O D (AutomobileEngg.)

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.

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Discipline:-Automobile Engg.	Semester :-6 th	Name of the teaching faculty :- M.B.BISWABANDITA
Subject Name :- VEHICLE MAINTENANCE AND MOTOR VEHICLE ACT	No. Of Days/Week Class Allotted :- 04 Periods/Week (Monday, Tuesday, Wednesday, Friday – 1 Period Each)	Semester from Date 16/01/2024 To Date 26/04/2024 No. of Weeks:- 15
WEEK	DATE	TOPIC
1st	16/01/2024	Introduction
	17/01/2024	Need of maintenance
	19/01/2024	Types of maintenance systems
2nd	22/01/2024	Breakdown maintenance
	24/01/2024	Preventive maintenance
	29/01/2024	Predictive maintenance
3rd	30/01/2024	Total productive maintenance
	31/01/2024	Service station and types
	02/02/2024	Private service stations
		Company's authorized service stations
		Company's dealer service stations
4th	05/02/2024	Private service stations
		Company's authorized service stations
		Company's dealer service stations
	06/02/2024	Criteria for service station
		Workshop layout
	07/02/2024	Important elements in workshop layout
	09/02/2024	Workshop documents and record
		Job card and its importance
5th	12/02/2024	Workshop documents and records
		Job card and its importance
	13/02/2024	Introduction
		List of tools
		List of equipments
	16/02/2024	Spanners or wrenches

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6 th	19/02/2024	Double ended open jaw spanner(fix spanner) Double ended ring spanner Combination spanner
	20/02/2024	Double ended open jaw spanner(fix spanner) Double ended ring spanner Combination spanner
	21/02/2024	Socket or box spanner Screw driver
	23/02/2024	Types of screw and screw drivers Torque wrenches Pliers Allen keys CLASS TEST
	26/02/2024	DISCUSSION
7 th	27/02/2024	Hammers Chisels Files
	28/02/2024	Hacksaws Wire brush and scraper Taps and dies
	01/03/2024	Drill bits Reamers Measuring tools
	04/03/2024	Valve spring compressors Piston ring compressor Oil filter wrenches
	06/03/2024	Puller Coil spring compressor set Tyre levers
9 th	11/03/2024	Tool box C-clamp
	12/03/2024	

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		Pneumatic tools
	13/03/2024	CLASS TEST
	15/03/2024	Drilling machine Grinder Jack – (mechanically operated jack and hydraulic jack)
10 th	18/03/2024	Lubrication equipments Tyre-changer Wheel balancer
	19/03/2024	Wheel aligner Brake bleeding equipments High pressure compressor
	20/03/2024	High pressure car wash machine Engine analyser
	22/03/2024	Hydraulic press Spark plug tester and cleaner machine
11 th	27/03/2024	Injector tester and cleaner machine Battery charging and testing machine
12 th	02/04/2024	Troubles, Causes & remedies in engine, fuel system, cooling system, lubrication system & MPFI Engine
	03/04/2024	Troubles, Causes & remedies in engine, fuel system, cooling system, lubrication system & MPFI Engine
	05/04/2024	Troubles, Causes & remedies in engine, fuel system, cooling system, lubrication system & MPFI Engine
13 th	08/04/2024	Troubles, Causes & remedies in engine, fuel system, cooling system, lubrication system & MPFI Engine

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	09/04/2024	Troubles, Causes & remedies in engine, fuel system, cooling system, lubrication system & MPFI Engine
	10/04/2024	Service, repair and overhaul of engine
	12/04/2024	Service, repair and overhaul of engine
14 th	15/04/2024	Service, repair and overhaul of engine
	16/04/2024	Service, repair and overhaul of chassis and body
		Service, repair and overhaul of chassis and Body
	19/04/2024	Service, repair and overhaul of chassis and body
		Introduction
		Short explanation on different sections like 3,4,5,19,39,49,50,51,128,129,130,133
15 th		Driving license
		Necessity for driving license.
		Restrictions on granting of learner's licenses for certain vehicles.
		Grant of learner's licenses.
	22/04/2024	Grant of Permanent driving licenses.
		Documents required for driving licenses
		Driving license
		Necessity for driving license.
		Restrictions on granting of learner's licenses for certain vehicles.
		Grant of learner's licenses.
		Grant of Permanent driving licenses.
		Documents required for driving licenses

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