



NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY
SERGARH-756060, BALASORE (ODISHA)
(Approved by AICTE& affiliated to SCTE&VT, Odisha)



LESSON PLAN

SUBJECT : TH-3
(VECHICLE MAINTENANCE AND MOTOR VEHICLE ACT)

CHAPTER WISE DISTRIBUTION OF PERIODS

Sl.No.	Name of the chapter as per the Syllabus	NO. OF Periods	NO. OF periods
1	VEHICLE MAINTENANCE	08	08
2	SERVICE STATION	10	11
3	TOOLS AND EQUIPMENTS	12	20
4	SERVICE, REPAIR AND OVERHAUL	18	13
5	MOTOR VECHILES ACT	12	8
	TOTAL	60	60

Discipline: AUTOMOBIL E ENGG.	Semester: 6 th	Name of the Teaching Faculty: Er.JYOTIRMAY BISWAS	
		SESSION : 2023-24	EXAMINATION : 2024 (S)
Week	Class Day	Topics to be Covered	
1 st	1 st	Introduction of vehicle maintenance	
	2 nd	Need of maintenance	
	3 rd	Types of maintenance systems	
	4 th	Breakdown maintenance	
2 nd	1 st	Breakdown maintenance	
	2 nd	Preventive maintenance	
	3 rd	Predictive maintenance	
	4 th	Total productive maintenance	
3 rd	1 st	Service station and types	
	2 nd	Private service stations	
	3 rd	Company's authorized service stations	
	4 th	Company's dealer service stations	
4 th	1 st	Criteria for service station	
	2 nd	Criteria for service station	
	3 rd	Workshop layout	
	4 th	Workshop layout	
5 th	1 st	Important elements in workshop layout	
	2 nd	Workshop documents and records	
	3 rd	Job card and its importance	
	4 th	Introduction of TOOLS AND EQUIPMENTS	
6 th	1 st	List of tools & List of equipments	
	2 nd	Spanners or wrenches	
	3 rd	Double ended open jaw spanner(fix spanner), Double ended ring spanner	
	4 th	Combination spanner & Socket or box spanner	
7 th	1 st	Screw driver & Types of screw and screw drivers	

Week	Class Day	Topics to be Covered
7 th	2 nd	Torque wrenches , Pliers ,Allen keys
	3 rd	Hammers, Chisels,Files
	4 th	Hacksaws,Wire brush and scraper,Taps and dies
8 th	1 st	Drill bits, Reamers, Measuring tools,Valve spring compressors
	2 nd	Piston ring compressor,Oil filter wrenches,Puller
	3 rd	Coil spring compressor set,Tyre levers,Tool box,C-clamp,Pneumatic tools
	4 th	Drilling machine,Grinder,Jack – (mechanically operated jack and hydraulic jack)
9 th	1 st	Lubrication equipments,Tyre changer,Wheel balancer,Wheel aligner,Brake bleeding equipments
	2 nd	High pressure compressor,High pressure car wash machine
	3 rd	Engine analyser,Hydraulic press
	4 th	Spark plug tester and cleaner machine
10 th	1 st	Injector tester and cleaner machine
	2 nd	Battery charging and testing machine
	3 rd	Internal Exam
	4 th	SERVICE, REPAIR AND OVERHAUL
11 th	1 st	Troubles, Causes & remedies in engine
	2 nd	fuel system
	3 rd	fuel system
	4 th	cooling system
12 th	1 st	cooling system
	2 nd	lubrication system
	3 rd	lubrication system
	4 th	MPFI Engine
13 th	1 st	Service, repair and overhaul of engine
	2 nd	Service, repair and overhaul of engine
	3 rd	Service, repair and overhaul of chassis and body

Week	Class Day	Topics to be Covered
13 th	4 th	Service, repair and overhaul of chassis and body
14 th	1 st	Introduction of MOTOR VEHICLES ACT
	2 nd	Short explanation on different sections like 3,4,5,19,39,49,50,51,128,129,130,133,Driving license
	3 rd	Necessity for driving license,Restrictions on granting of learner's licenses for certain vehicles.
	4 th	Grant of learner's licenses., Grant of Permanent driving licenses
15 th	1 st	Documents required for driving licenses,Certification of Registration
	2 nd	Necessity of registration of vehicle,Registration –where to be made.Procedure for registration
	3 rd	Condition for refusal of registration,Temporary registration,Permanent registration
	4 th	Permanent registration,Renewal of registration certificate.