

Trade Name: **AUTOMOBILE TECHNOLOGY (NSQF)**

SESSION **2017-2018**

CLASS X

SUBJECT & CODE: **AUTOMOBILE TECHNOLOGY (464)**

THEORY: 30 Marks

PRACTICAL: 60 Marks

1st Term (1 April 2017 to 31 August 2017)

DATE & MONTH	CONTENT'S	
	THEORY	PRACTICAL
UNIT-1 AUTOMOBILE AND IT'S COMPONENTS		
APRIL 2017	<p>Chassis: Meaning, Classification of chassis and chassis Frame with advantage and disadvantage</p> <p>Body and Superstructure: Importance of body, Different types of body i.e. car, bus, truck, train etc. List up body parts of a Car and Motorcycle.</p> <p>Engine: Definition and classification of engine, Technical Terms, Role of Engine</p> <p>Lubrication System: Importance or Role of Lubrication System, Main parts require lubrication in an engine, Properties of a good lubricant, Types of Lubricants, Flash and Pour Point</p> <p>Cooling System: Role of Coolant, method of cooling, Components of Cooling System</p> <p>Fuel Supply System: Meaning of FSS, types of FSS, Components and importance of Pressure System</p>	<ul style="list-style-type: none">* Study of different types of Chassis i.e. semi-forward, centre, fully forward etc.* List up Different types of Bodies of a vehicle according to use.* Briefly explain Engine* Draw a diagram of lubrication system and trace lubrication system in a vehicle.* Explain the Coolant function, Grade and different colour.* Draw a neat diagram of Fuel Supply System and explain.
MAY 2017	<p>Transmission System: Explain means of Transmission System, Components of transmission system, Role of Clutch, Need of Gear Box, Types of Gear Box(Transmission), Requirement of Propeller Shaft and Universal Joint with types</p>	<ul style="list-style-type: none">* Sketch and Explain transmission system* Explain Clutch and its component and functioning.* Explain uses and benefit of propeller and universal joint.
SUMMER VACATION/ ON JOB TRAINING from 11 MAY 2017 to 30 JUNE 2017		

<p>JULY 2017</p>	<p>Front Axle: Front axle components and work, Requirement of Front axle Steering System: Types of Steering, Components of Steering system and its function, Role of Ball joints Rear Axle: Rear axle components and differential work, Requirement of Rear axle Suspension System: Importance and Function of Suspension System, Components and Different types of Suspension System Wheel and Tyres: Components and Function of Wheel, Explain Rim with types and dimension, Tyre Specification and Desirable Properties with its function Brakes: Brake, Function and Requirement of Good Brakes, Types of Brakes, Importance of Brakes in Automobile Electrical and Electronics System: Main parts (i.e. Starting, Ignition, Generating/Charging, Lighting) and Main Components, Advantage of Electronic System</p>	<ul style="list-style-type: none"> * Role and Uses of Front and Rear Axle * List up different component of steering system and Importance of Ball joint. * Explain and find out Different types of Suspension system and components. * Explain different types of Rim and dimension. * Draw a neat sketch of Tyre with full specification. * Differentiate Hydraulic, Disk and Mechanical brakes. * Advantage and Disadvantage of Electronic System.
<p>UNIT-2 TOOLS</p>		
<p>AUGUST 2017</p>	<p>Hand Tools: Plier, Screw Driver etc. Measuring Tools: Vernier Calliper, Micrometre etc. Electrical Tools: MultiMeter, Hydrometer etc. Special Tools: Torque Wrench, Tappet Wrench etc. Service Workshop Equipment: Two post lift, Air Compressor, Wheel balancing and alignment etc.</p>	<ul style="list-style-type: none"> * To know about different types of tools used in Automobile Workshop.
<p>SEPTEMBER 2017</p>	<p>1.9.17-8.9.17 Revision of 1st term syllabus 11.9.17-29.9.17 1st term exam 27.9.17 Discussion on Exam Q. Paper 28.9.17-29.9.17 Autumn Break</p>	



2nd Term (3 OCT 2017 to 18 FEB 2018)

MONTH	CONTENT'S	
	THEORY	PRACTICAL
UNIT-3 VEHICLE SERVICING		
OCTOBER 2017	Washing of a Vehicle: Steps of Washing, Precaution during washing, Material required Changing of Oil and Oil Filter: Steps to changing oil and oil filter, Precaution During tools use, material required Changing of Air Filter Changing of Fuel Filter Changing of Coolant	* Explain different steps to washing, oil and filter and coolant changing.
UNIT-4 CUSTOMER SERVICE		
NOVEMBER 2017	Customer Service	* Explain role of Customer Service
UNIT-5 INNOVATION & DEVELOPMENT		
NOVEMBER 2017	Innovation & Development:	
DECEMBER 2017 to MARCH 2018	1.12.2017-27.12.2017 Revision of Syllabus 28.12.17-15.01.18 Winter Break 9.01.18-25.01.18 Pre Board Exam 27.01.18-31.01.18 Discussion on Pre Board 1.02.18 till Exam Revision and Practice	

