INDIRA TECHNICAL EDUCATION SOCIETY, NASHIK

AUTO WORKSHOP SERVICE ADVISOR (ATWSA)

THEORY PAPER I: Syllabus for this paper is same as Certificate Course in

AUTOMOBILE MECHANIC (ATM) 100 Marks

Refer this syllabus booklet Page No.

THEORY PAPER II: Theory syllabus for this is Printed below. 100 Marks

PRACTICAL I : One Practical

Practical – I same as ATM 100 Marks

Total: (300 marks)

(ATWSA - PAPER - II)

THEORY SYLLABUS

1. MOTOR VEHICLE ACT & VEHICLE INSURANCE

M. V. Act 1988, M.V. Rules 1989 with major recent amendment, Topic of chapter / section 8 schedules, definitions in chapters, Licensing of Drivers, Registration of M. Vs. control of Transport Vehicles, State & Interstate Contractors, Private & Public Vehicles, Traffic Rules, offences & penalties, Speed limits, Road Signs in 8th & 9th schedules.

2. GARAGE EQUIPMENT & LAYOUT

Layout of model Garage, Equipments used for motor vehicles, Greasing equipment, Spray Painting & Greasing machinery, Car service Hoists, Car Washing machines, Jib head crane / Electric Hoist, Air compressors etc.

3. DASHBOARD INSTRUMENTS & EQUIPMENTS USED FOR MEASUREMENTS

Panel board instruments, maintenance, Fuel Gauge oil pressure Gauge – Low pressure indicator, Buzzers, Electric Horns. Lighting / Traffic Indicators / Break down switches, Its faults diagnosis & replacements. Electrically operated fuel pumps, wind screen wipers, functions operation & maintenance of each components.

4. INTRODUCTION TO MPFI SYSTEMS & ITS LAYOUT

- Types of sensors & their working.
- 12 valves / 16 valves MPFI engines.
- CNG / LPG engines & its layout, Advantages & disadvantages of CNG / LPG over Petrol
 engines. Important spares / units of CNG engines. Maintenance procedure of CNG engines.

5. TURBO CHARGERS

Principles & operation of Turbo engines. Intercoolers principles & operation. Maintenance.

6. CAR AIRCONDITIONING

- Introduction to Car Air conditioning.
- Layout Construction & Operation of Car Air Conditioning.
- Maintenance of Car Air Conditioner.

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7. VEHICLE TESTING

- Testing maintenance & servicing.
- Inspection of vehicles & Road tests. Brake Tests.
- Fuel economy.

8. SOFT SKILLS

Administrative accounting / financial services in Dealer show rooms. Customer relations, salesmanship, Car Booking procedures, Various finance schemes, Vehicle delivery, Service & maintenance.

Examination Scheme

Theory Paper I	3 Hours	100 Marks	ATM Syllabus
Theory Paper II	3 Hours	100 Marks	
Practical	2 Hours	75 Marks	
Journal		15 Marks	
Oral		10 Marks	

Total:

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