

## **PAU7J003 TROUBLE SHOOTING, SERVICING AND MAINTENANCE OF AUTOMOBILE 3-0-0**

### **MODULE I : RECORD KEEPING, ENGINE MAINTENANCE AND SERVICING**

Maintenance Records and Schedule : Importance of maintenance, scheduled and unscheduled maintenance, preventive maintenance and its advantages, breakdown maintenance and its disadvantages, vehicle movement and maintenance log books, different service garages & its layout., site selection for service garages..

Dismantling of engine components and cleaning, cleaning methods, visual inspections, minor and major reconditioning of engine components, engine assembly, special tools used for maintenance / overhauling, engine tune-up.

### **MODULE II: CHASIS MAINTENANCE AND SERVICING**

Servicing, repair and maintenance of clutch, clutch adjustment, maintenance, repair and servicing of gear box, servicing of propeller shaft, servicing and maintenance of differential unit, servicing of front axle and rear axle, suspension system of both rigid and independent types, servicing of hydraulic and air brake systems, brake bleeding and brake adjustment, maintenance and servicing of steering system, wheel balancing, wheel alignment

### **MODULE III: CIRCULATORY SYSTEMS**

Servicing and maintenance of ignition system of petrol and diesel engine, Servicing and maintenance of fuel system of different types of vehicles, engine tuning for optimum fuel supply. Cooling systems-water pump, radiator, thermostat, anticorrosion and antifreeze additives.

### **MODULE IV: LUBRICATION AND VEHICLE BODY MAINTENANCE**

Lubrication maintenance, lubricating oil changing, greasing of vehicle components. Maintenance and Repair of Vehicle Body : Special tools used for body repair, minor body panel beating, polishing and painting of new and old vehicle body, servicing of door locks.

### **TEXT BOOK**

1. John Doke "Fleet Management", McGraw-Hill Co. 1984.

### **REFERENCES BOOKS**

1. Judge.A.N., " Motor vehicle engine servicing, 3rd, Edition ", Pitman Paperpack,London, 69.
2. Judge.A.W., " Maintenance of High speed diesel engines ", Chapman Hall Ltd.,London,'56.
3. Maleev.V.L., " Diesel Engine operation and Maintenance ", Maintenance, McGrawHill Book Co., New York,1954.
4. John.W.Vale.J.R., " Modern Auto Body and Finder repair".
5. Venk.Spicer." Automotive Maintenance and Trouble shooting".
6. " Vehicle Service Manuals of reputed manufactures".