



# **SNS COLLEGE OF TECHNOLOGY**

**(An Autonomous Institution)**

**COIMBATORE-35.**



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

## **DEPARTMENT OF AUTOMOBILE ENGINEERING**

**COURSE NAME : 19AUB304 – VEHICLE MAINTENANCE AND RECONDITIONING**

**III YEAR /VI SEMESTER**

**Unit 1- MAINTENANCE OF RECORDS AND SCHEDULES**

**Topic : Types of Maintenance**



# TYPES OF MAINTENANCE



- Preventive Maintenance
- Scheduled Maintenance or Periodic Maintenance
- Unscheduled Maintenance or Breakdown Maintenance
- Operation maintenance



# PREVENTIVE MAINTENANCE



- Prevention without breakdown or without giving trouble on road some attention or maintenance taken to the vehicle is called as preventive maintenance.
- It intends to reduce or totally eliminate breakdown and accidents due to mechanical failure and reduces repair cost. This type of maintenance is done to prevent problems from occurring in the future. It involves routine checks, adjustments, and replacements of various components and fluids, such as oil changes, tire rotations, and brake inspections.



# PREVENTIVE MAINTENANCE



A good preventive maintenance program lead to following advantages:

- Reduce the breakdown of vehicle.
- Increase safety due to reduced breakdown.
- Less expenses on repairs.
- Good control on inventory of spare parts.
- Lesser number of equipment are require.





# SCHEDULED MAINTENANCE OR PERIODIC MAINTENANCE



- Periodic maintenance involves servicing a vehicle at regular intervals based on time or mileage. In this system, servicing of the vehicle is done at pre-determined time interval, in order to avoid breakdown of the vehicle
- It includes tasks such as replacing timing belts, spark plugs, and other components that have a limited lifespan.
- Periodic maintenance helps in preventing sudden failures and extends the overall lifespan of the vehicle.



# SCHEDULED MAINTENANCE OR PERIODIC MAINTENANCE



- Maintenance scheduled for car
- Wash and lubricate chassis, do not spray under chassis
- Drain drum, gear box and axle, flush and refill with proper lubricants.
- Check under chassis for evidence of water, oil, brake fluid, shock absorber and petrol leaks
- Tighten engine, steering joints, U bolts and chassis bolts to torque specifications.
- Lubricate rear axle bearing. Tighten rear axle shaft nuts to torque specification.
- Check operation of body hardware, doors, glasses, locks and keys
- Check and fill battery, clean and tighten terminals



# SCHEDULED MAINTENANCE OR PERIODIC MAINTENANCE



- Check operation of all instruments, lights horns and accessories
- Check and adjust fan belt tension
- Check clutch pedal free travel and linkage
- Adjust brakes. Check and adjust pedal free travel.
- Check master cylinder fluids
- Check wheel alignment
- Aim headlights
- Tune engine, including adjustment tappets
- Adjust ignition timing and carburetor



# UNSCHEDULED OR BREAK DOWN MAINTENANCE



- Break down maintenance is a attention which is to be provided when the motor vehicle becomes immobilized due to fault created during running. In this system, servicing or repairing work is done only after the vehicle brakedown.
- These fault are started difficulties, puncture, electrical fault, carburettor and fuel supply fault, overheating, fan belting, breakage and accident etc.







# OPERATION MAINTENANCE



- Daily maintenance by the operator for proper running of the vehicle is known as operation maintenance.
- It is needed to keep the vehicle in proper working condition. Tire inflation, battery, brakes, clutch, smoke color, starting system, ignition system and lights are checked in this maintenance daily.



THANK YOU