

AT8712 VEHICLE MAINTENANCE LABORATORY

DETAILED SYLLABUS

OBJECTIVE:

- To train the structures in identifying the fault and rectification.

STUDY EXPERIMENTS:

1. Tools and instruments required for maintenance
2. Safety aspects with respect to man, machine and tools
3. General procedures for servicing and maintenance schedule
4. Wheel Alignment procedure

LIST OF EXPERIMENTS:

1. Minor and major tune up of gasoline and diesel engines
2. Calibration of Fuel pump
3. Engine fault diagnosis using scan tool
4. Fault diagnosis and service of transmission system
5. Fault diagnosis and service of driveline system
6. Fault diagnosis and service of braking system
7. Fault diagnosis and service of suspension system
8. Fault diagnosis and service of steering system
9. Fault diagnosis and service of Electrical system like battery, starting system, charging system, lighting system etc
10. Fault diagnosis and service of vehicle air conditioning system
11. Practice the following:
 - i. Adjustment of pedal play in clutch, brake, hand brake lever and steering wheel play.
 - ii. Air bleeding from hydraulic brakes, air bleeding of diesel fuel system.
 - iii. Wheel bearings tightening and adjustment.
 - iv. Adjustment of head lights beam.
 - v. Removal and fitting of tire and tube.