

AUTO SCANNING & VEHICLE TESTING LAB

OBJECTIVE: To impart to the learner the skills to analyze engine and to study its performance, wheel balancing and alignment machines. Further to scan the automobile in all aspects for correct diagnosis

1. Computerized engine analyzer study and practice.
2. Computerized wheel balancing machine study and practice.
3. Computerized wheel alignment machine study and practice.
4. Exhaust emission test of petrol and diesel engine
5. Two wheeler chassis dynamometer study and practice
6. Study of wind tunnel -determining of coeff of drag for a given aerofoil .
7. Road worthiness test a) Acceleration b) Gradability c) Maximum speed d) Constant speed fuel consumption (High way drive) e) city drive fuel consumption tests.
8. Head light focusing test.
9. Visibility test .
10. Braking distance test .
11. Drawings of automobile bodies -light and heavy vehicles for different seating capacities.
12. Dimensional drawings of bus depots and service station workshop layouts.

Course outcomes: The students completing the course will be able to understand *automotive scan* tools and diagnostic equipment for fault diagnosis and troubleshooting any problem arises in automobile.