

AT8711 ENGINE PERFORMANCE AND EMISSION TESTING LABORATORY

DETAILED SYLLABUS

OBJECTIVE:

- To conduct performance test and emission test on the IC engines.

LIST OF EXPERIMENTS

1. Study of hydraulic, electrical and eddy current dynamometers
2. Valve timing and port timing diagrams
3. Performance and emission test on two-wheeler SI engine
4. Performance and emission test on automotive multi-cylinder SI engine
5. Performance and emission test on automotive multi-cylinder CI engine
6. Retardation test on I.C. Engines.
7. Heat balance test on automotive multi-cylinder SI engine
8. Heat balance test on automotive multi-cylinder CI engine
9. Morse test on multi-cylinder SI engine
10. Engine cylinder pressure measurement P- θ and P-V diagrams for IC engine with piezo-electric pick up, charge amplifier, angle encoder and data acquisition system.
11. Motoring test for indicated power