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AT8511 AUTOMOTIVE ELECTRICAL AND ELECTRONICS LABORATORY

DETAILED SYLLABUS

OBJECTIVE:

• To introduce the testing procedure for electrical and electronics system in automobile.

LIST OF EXPERIMENTS

a. Electrical Laboratory

- 1. Testing of batteries and battery maintenance
- 2. Testing of starting motors and generators
- 3. Testing of regulators and cut outs
- 4. Diagnosis of ignition system faults
- 5. Study of Automobile electrical wiring

b. Electronics Laboratory

- 6. Study of rectifiers and filters
- 7. Study of logic gates, adder and flip-flops
- 8. Study of SCR and IC timer
- 9. Interfacing Sensors like RTD, LVDT, Load Cell etc.
- 10. Interfacing ADC for Data Acquisition
- 11. Interfacing DAC for Control Application
- 12. Interfacing A/D converter and simple data acquisition
- 13. Micro controller programming and interfacing
- 14. Interfacing Actuators
- 15. EPROM Programming
- 16. Fault Diagnosis of various sensors