

32183 – AUTOMOBILE AIRCONDITIONING SYSTEM

DETAILED SYLLABUS

UNIT- I AIRCONDITIONING FUNDAMENTALS

Basic air-conditioning system –Location of air-conditioning components in a car- Schematic layout of a refrigeration system. Compressor components –Condenser and high pressure service ports. Thermostatic expansion valve-expansion valve calibration – controlling evaporator temperature-evaporator pressure regulator – Evaporator temperature regulator.

UNIT- II AIRCONDITIONER HEATING SYSTEM

Automotive heaters – manually controlled air conditioner-Heater system-ford automatically controlled air conditioner and heating system – Automatic temperature control – Air-condition protection – Engine protection.

UNIT- III REFRIGERANTS

Refrigerant Classification, Designation, Alternative Refrigerants, Global Warming Potential & Ozone Depleting Potential aspects. Handling of Refrigerants.

UNIT- IV AIR ROUTING & TEMPERATURE CONTROL

Objectives-Evaporator care airflow through the dash board recirculation unit.Automatic temperature control – Duct system – Controlling flow – Vacuum reverse – Testing the air control and handling systems.

UNIT- V TROUBLE SHOOTING AND SERVICE

Causes of air conditioner failure – Trouble shooting of air controlling system – Air conditioner maintenance and service – Servicing heater system. Removing and replacing components – leak testing Compressor service.

TEXT BOOK

1. William H Crouse and Donald L Anglin, Automotive air conditioning. McGraw-Hill Inc., 1990.

REFERENCE BOOKS

1. Dwiggins, Automotive Air Conditioning, Thomson Asia,2002
2. Mitchell information services, Inc., Mitchel Automatic Heating and air conditioning systems,

Diploma, Anna University-UG, PG., HSC & SSLC

Notes

Syllabus

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www.AllAbtEngg.com

3. Paul Weiser, Automotive Airconditioning, Reston Publishing Co Inc., 1978.
4. Mac Donald. K.L, Automotive Airconditioning, Theodore Audel Series, 1978.
5. Goings. L.F., Automotive air conditioning, American Technical Services, 1974.