AUTOMOBILE ENGINEERING
(DEGREE STANDARD)                               CODE: 258

UNIT I ENGINES

UNIT II AUTOMOTIVE CHASSIS

UNIT III SUSPENSION AND BRAKING SYSTEM

UNIT IV AUTOMOTIVE TRANSMISSION
Clutches – coils spring, diaphragm clutches – centrifugal and semi centrifugal clutches – multiplate clutches. Gear box – sliding mesh, constant mesh and synchromesh – construction and operation. Automatic transmission – fluid coupling, torque converter, epicyclic gear box, hydrostatic transmission, electric drive
UNIT V AUTOMOTIVE ELECTRICAL AND ELECTRONICS

Navigation system – ABS – AIRBAG restraint system.

UNIT VI VEHICLE BODY ENGINEERING


UNIT VII VEHICLE DYNAMICS


UNIT VIII VEHICLE CONTROL SYSTEMS

Degree of freedom for vehicle control – calculation of the control - degree of freedom. Selection of control, manipulator and measured disturbances variables. General types

UNIT IX AUTOMOTIVE POLLUTION AND CONTROL


UNIT X SERVICING&MAINTENANCE, MOTOR VEHICLE ACT

Automobile law – motor vehicle act – registration, driving licence, insurance, pollution and control, regulation. Trouble shooting and servicing of clutch, gear box, brakes, suspension and steering system. Trouble shooting and servicing of engine, engine cooling system and lubrication system – tools and equipments required for repairs – service station – organization and management of service stations.