

COURSET TITLE : AUTOMOBILE ENGINEERING DRAWING
COURSE CODE : 3048
COURSE CATEGORY : B
PERIODS/WEEK : 4
PERIODS/SEMESTER : 72
CREDITS : 3

CONTENT OUTLINE

MODULE I: Layout of Automobile Workshops and Services Station: 18 periods

1. Layout of Fuel filling cum service station
2. Layout of fully equipped modern gaurrage
3. Layout of inspection pit and service ramp
4. Layout of modern paint booth
5. Layout of road ways workshop
6. Layout of seating arrangement in buses
- 7 Chassis specifications and drawings of LMV, HGV & HPV

MODULE II Drawing of Engine Components -17 periods

Draw the dimensioned sketches of the following automobile engine components

- 1 2-Stroke and 4-stroke petrol engine pistons
- 2 Diesel engine pistons
- 3 4-cylinder and 6-cylinder engine crank shaft
- 4 4-cylinder and 6-cylinder engine cam shaft

MODULE III -17 periods

- 1 Electrical symbols-
- 2 Complete wiring diagram of passenger car, medium vehicle ,heavy vehicle and two wheelers

MODULE IV Assembly drawing of Engine components -20 periods

Assembly drawing of,

1. Connecting rod
2. Assembly of single cylinder engine
3. Overhead & side valve mechanism with all parts (with side cam shaft and overhead cam shaft)
4. Spark plug & fuel injector

REFERENCES

1. Machine Drawing - N.D.Bhat
2. Machine Drawing - P.I.Varghese
3. Automobile Engineering Drawing - R.B.Guptha
4. Automobile body building - T.T.T.I – Chennai
5. Automobile Engg., Vol. 3 - Anil Chikkara