



Diploma branch in which subject is offered: - Automobile Engineering

Objective: The diploma engineer whether in employment or in business, should therefore have awareness of various kinds of business, auto business management, and different rules & acts.

Credits Earned: 4

Course Outcomes: The theory should be taught and practical should be carried out in such a manner that students are able to acquire different learning out comes in cognitive, psychomotor and affective domain to demonstrate following course outcomes.

After learning the course, the students should be able to:

- Describe merit and demerit of different forms of business organizations and sources of business finances.
- Apply CPM and PERT techniques and better material management.
- Explain various steps involved in preventive maintenance.
- Describe motor vehicle rules and driving regulations.

Pre-requisite of course: Material Science

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term work	
3	-	2	4	50	30	20	25	25	150

Contents:

Sr. No.	Topics	Teaching hrs.	Weightage
1	Elements of forms of business management and business finance: Nature of business organization, Merits & demerits of the sole trading, partnership, Joint stock company, Cooperative & State enterprise, etc. Self-employment & Entrepreneurship, Sources of raising business finance such	4	10



	as shares, debentures bonds, commercial banks, Public deposits and co-op. credit bank, etc., Specialized Agencies of finance such as IDBI, IFC, ICICI, NIDC, LITI, LIC, GSPE, GIDC, GSIC, etc. and their function.		
2	Network analysis: Meaning of CPM and PERT., Meaning of activity and event, Rules of constructing a network using dummy and real activities. Calculation of net work.	5	13
3	Material management: Functions of material management, System of purchasing, Types of forms used in purchasing, Stores management: Functions of store keeping, Types of stores, Materials to be stored, Types of records maintained in the stores, Classification and codification of stores. Inventory control: Importance, and its techniques.	9	24
4	Preventive maintenance: Preventive maintenance: Meaning, Philosophy, functions, designing a preventive maintenance schedule, Economical aspects, dos & don'ts, Factors to be taken into account while making preventive maintenance schedule	4	10
5	Motor vehicle rules & regulation: Key terms of motor vehicle act FAW, RAW, UW, RLW, LMV, HMV public carrier, private carrier, etc., Control of traffic, important clauses, Registration marks & mandatory signs & other traffic signs, Provisions of motor vehicle act on driving regulations.	6	17
6	Licensing: Necessity and eligibilities for obtaining the driving license, Form contents, validity and currency of driving license, Renewal, revocation, endorsement and power of disqualifying the holder for driving license, Conducts and duties of driver of motor vehicle, Necessities and granting of conductor's license, Duties and conducts of conductor rule	5	13
7	Registration of motor vehicle: Registration of Motor Vehicle, The exhibition of registration, Information about the refusal of registration of vehicle, Procedure for registration of vehicles removed to another state, The Provision for transfer of ownership of the vehicle, The Provision for alteration in vehicle, The suspension of registration, The cancellation of registration of vehicle, The necessity of certificate of fitness of transport vehicle.	5	13



References:

1. Material Management Ammer Taraporevala
2. Industrial Engineering and Management O.P.Khanna Dhanpat Rai
3. Industrial Maintenance H. P. Garg S.chand
4. Material Management N. K. Nair Vikas Publication House pvt. ltd
5. Motor vehicles Act, 1989, The Gujarat Motor vehicles Rules, 1989 ,The Central Motor vehicle Rules,1989
6. CPM and PERT (Principles & applications) L. S. Srinath Ease-West Press Pvt. Ltd New Delhi
7. Industrial Organisation & Engg. Economics S. C. Sharma Khanna

Suggested Theory distribution:

The suggested theory distribution as per Bloom's taxonomy is as per follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember	Understand	Apply	Analyse	Evaluate	Create
35%	40%	25%	0	0	0

Suggested List of Tutorials/Experiments

1. To study elements of business management and business Finance
2. To solve various Net Work Analysis problems
3. To understand basic concept of material management
4. To study preventive maintenance of various vehicles
5. To understand motor vehicle rules & Regulation
6. To understand process of vehicle registration

Open ended problem

1. How to get license of two wheeler and four wheeler
2. How to do registration of you vehicle online process

Instructional Method:

1. Lecture cum discussion by using standard animation and videos
2. Field visit to R.T.O.