

GANPAT UNIVERSITY									
FACULTY OF ENGINEERING & TECHNOLOGY									
Programme		Diploma Engineering				Branch			
Semester		IV				Version		1.0.0.0	
Effective from Academic Year			2018-19			Effective for the batch Admitted in			June 2018
Subject code		1AU2405		Subject Name		AUTOMOBILE INDUSTRIAL MANAGEMENT			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	3	0	0	0	3	Theory	60	40	100
Hours	3	0	0	0	3	Practical	0	0	0

Pre-requisites:

Course Learning Outcomes:
The course content should be taught and implemented with an aim to develop different skills leading to the achievement of the following competencies and course learning outcomes:
T1. Describe merit and demerit of different forms of business organizations and sources of business finances.
T2. Apply CPM and PERT techniques as network planning tools.
T3. Use various inventory control techniques for better material management.
T4. Explain various steps involved in preventive maintenance.
T5. Describe motor vehicle rules and driving regulations, promote sales of vehicles.

Course Content				
Name of UNIT	Unit Content	Unit Learning Outcomes	Marks	Hrs
UNIT – 1 Elements of forms of Business Management	1.1 Nature of business organization. 1.2 Merits & demerits of the sole trading, partnership, Joint stock company, Co-operative & State enterprise, etc. 1.3Self- employmentand Entrepreneurship	1a. Describe forms of business organizations 1b. Describe self-employment & entrepreneurship	03	03
UNIT – 2 Elements of Business Finance	2.1 Sources of raising business finance such as shares, debentures bonds, commercial banks, Public deposits and co-op. credit bank, etc. 2.2 Specialized Agencies of finance such as IDBI, IFC, ICICI, NIDC, LITI, LIC, GSPE, GIDC, GSIC, etc. and their function.	2a. Describe sources of business finances 2b. Understand the role of different financing agencies.	03	03
UNIT – 3 Net Work Analysis	3.1 Meaning of CPM and PERT. 3.2 Meaning of activity and event 3.3 Rules of constructing a network using dummy and real activities.	3a. Describe planning tools: CPM and PERT 3b. Determine the critical path on a network	06	06

	3.4 Calculation of net work time.	3c.Distinguish between CPM & PERT		
UNIT – 4 Material Management	4.1 Functions of material management. 4.2 System of purchasing. 4.3 Types of forms used in purchasing. 4.4 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. 4.5 Inventory control: Importance, and its techniques.	4a. Explain the different purchasing systems 4b. Classify the stores 4c. Carryout the codification of different items 4d. Explain various inventory control techniques. 4e.Prepare ABC analysis chart	12	10
UNIT – 5 Preventive Maintenance	5.1 Preventive maintenance: Meaning, Philosophy, functions, designing a preventive maintenance schedule, Economical aspects, dos & don'ts. 5.2 Factors to be taken into account while making preventive maintenance schedule	5.a Explain importance of preventive maintenance 5.b Explain various steps involved in preventive maintenance	06	04
UNIT – 6 Motor Vehicle Rules & Regulation	6.1 Key terms of motor vehicle act FAW, RAW, UW, RLW, LMV, HMV public carrier, private carrier, etc. 6.2 Control of traffic, important clauses. 6.3 Registration marks & mandatory signs & other traffic signs. 6.4 Provisions of motor vehicle act on driving regulations. 6.5 Necessity and eligibilities for obtaining the driving license 6.6 Form contents, validity and currency of driving license 6.7 Renewal, revocation, endorsement and power of disqualifying the holder for driving license 6.8 Conducts and duties of driver of motor vehicle 6.9 Necessities and granting of conductor's license, Duties and conducts of conductor rule	6.a State terms related to motor vehicle act 6.b Describe the control of traffic 6.c State registration marks and mandatory signs & other 6.d Describe necessity of obtaining the driving license 6.e Explain the procedure for issuing a driving license 6.f Explain duties of driver and conductor of motor vehicle	15	11
UNIT – 7 Registration of motor vehicle & sales	7.1 Registration of Motor Vehicle 7.2 The exhibition of registration 7.3 Information about the refusal of registration of vehicle	7.a Explain the procedure for registration of vehicle 7.b Explain the information about refusal of registration of	09	08

	<p>7.4 Procedure for registration of vehicles removed to another state, Provision for transfer of ownership of the vehicle.</p> <p>7.5 The Provision for alteration in vehicle, suspension of registration, cancellation of registration of vehicle.</p> <p>7.6 The necessity of certificate of fitness of transport vehicle.</p> <p>7.7 Salient features of manufacture dealer agreement.</p> <p>7.8 Various steps involved in vehicle selling techniques, Professional approach of selling vehicle.</p> <p>7.9 Management of self-employment: Prospecting of customers, and customer care.</p>	<p>vehicle, cancellation of registration, transfer of ownership of the vehicle.</p> <p>7. c Describe salient features of agreement between dealer and manufacture.</p> <p>7. d Explain various steps involved in vehicle selling technique.</p> <p>7. e Describe management of self-employment type organizations.</p>		
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List of Reference Books			
No	Title of Reference Books	Authors	Publication
1	Industrial Engineering and Management	O.P.Khanna	DhanpatRai
2	Motor vehicles Act, 1989		
3	The Gujarat Motor vehicles Rules, 1989		
4	Industrial Maintenance	H. P. Garg	S.Chand
5	CPM and PERT (Principles & applications)	L. S. Srinath	Ease-West Press Pvt. Ltd New Delhi
6	Industrial Organisation&Engg. Economics	S. C. Sharma	Khanna

Link of Learning Web Resource	
1	www.vahan.nic.in
2	home.snc.edu/eliotelfner/333/stones/page3.html
3	www.sarathi.nic.in
4	www.morth.nic.in
5	https://www.youtube.com/watch?v=GaKKSFEsAdI
6	https://www.youtube.com/watch?v=0SsPKCtfMak

CO'S AND PO'S MAPPING

PO'S		CO1	CO2	CO3	CO4	CO5
PO1	An ability to apply knowledge of mathematics and engineering science.	SLI	SUB	MED	SLI	SLI
PO2	An ability to demonstrate, develop and conduct experiments, as well as to analyze and interpret data.	SUB	MED	MED	MED	MED
PO3	An ability to design a system component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.	MED	MED	SUB	SLI	MED
PO4	An ability to perform with multidisciplinary teams.	MED	SUB	SUB	MED	SUB
PO5	Use of appropriate modern tool and application software that pertain to Automobile engineering technology systems.	NONE	SLI	SLI	SLI	MED
PO6	An ability to identify, formulates, execute and solve engineering problems	SLI	NONE	MED	SLI	SLI
PO7	An ability to communicate and present effectively in both verbal and written forms	SLI	MED	SLI	SLI	MED
PO8	The broad education necessary to understand the impact of engineering solutions in global, economic, environmental and societal context	SLI	SLI	MED	SLI	SLI
PO9	Recognition of need for self-improvement, and an ability to engage in life-long learning	SLI	SLI	MED	MED	SUB
PO10	Ability to aware about the contemporary issues	SLI	SLI	SLI	SLI	MED
PO11	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	SLI	SLI	SLI	MED	SLI
PO12	Demonstrate to analyse and apply unconventional processes, automation, robotics Nanotechnology, Computer-Aided-Design & Manufacturing and knowledge in Automobile Engineering, Thermodynamics, Refrigeration & Air Conditioning and Jet Propulsion & Rocket Engineering to analyse and solve complex problems and to work professionally in such systems and plants	SLI	SLI	MED	SLI	NONE