

**GUJARAT TECHNOLOGICAL UNIVERSITY****Syllabus for Bachelor of Vocation (B.Voc), 2nd Semester****Branch: Automobile Servicing/Production-****Technology/Refrigeration and Air Conditioning****Subject Name: Industrial Management****Subject Code: 1120101****With effective
from academic
year 2018-19****Type of course:** Under Graduate**Prerequisite:** None.**Rationale:**

The aim of this course industrial management is to make students understand and appreciate the importance of Industrial management in the industrial and business systems. To help the students to understand the fundamental concepts and principles of Industrial management, Private and Public Sector, Wages and Incentives, Industrial legislation and to effectively learn material Management.

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks						Total Marks
L	T	P		Theory Marks			Practical Marks			
				ESE (E)	PA (M)		PA(V)		PA (I)	
		PA	ALA		ESE	OEP				
03	00	00	03	50	00	00	00	00	00	50

L- Lectures; P- Practical; OJT- On Job Training; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Course Content:

Sr. No.	Topic	No. of Hours	% Weightage
01	Introduction, Growth of industry, The management of men, materials and machines, the art of management, Sources of capital-industrial individual enterprise, private partnership and private Ltd. Co., Joint Stock Co. shares, debentures, financial agencies and their role in promoting industries. Break even analysis.	04	15
02	Private sector and public sector: Public sector enterprise, merits and demerits of public sector industry and private sector industry, Line, staff and functional organizations, reasons for the choice of various types of organization, functions of different departments, viz. stores, purchase and sales departments relationship between individual departments.	06	20
03	Wages & incentives: Definition of wages, real wage and nominal wage, systems of wage payment, incentives, financial and non - financial incentives, Essentials of a good wage plan, essentials of a good incentive scheme. Introduction to elements of cost & indirect expenses, Material cost, labour cost, fixed and variable overheads, components of cost, selling price, Factory expenses, administrative expenses, selling & distribution expenses, depreciation, obsolescence, interest on capital, Idleness, Repair and maintenance.	10	25



04	Labour, industrial & tax laws: Evolution of industrial law, factory act, workmen compensation act, payment of wages act, employee's state insurance act, Industrial dispute act. Role of technician in industry: Position of technician in various engineering departments, Role of a supervisor in industry, Foremanship, duties and qualities of a good foreman.	08	20
05	Material Management: Introduction, Scope of Material Management selective control techniques-ABC analysis, Material handling, inventory control, Essential steps in inventory control, quality standards	06	20

Suggested Specification table with Marks (Theory):

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
10	15	10	10	5	5

Legends:

R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Reference Books:

1. Industrial Engineering and Management, S.C. Sharma, Khanna Publishing House
2. Industrial Safety, S.C. Sharma, Khanna Publishing House
3. Industrial Engineering & Management: Banga, Sharma & Agrawal
4. Industrial Engineering Safety & Pollution (Hindi): Hemendra Dutt

Course Outcome:

After learning the course the students should be able to:

- 1) Acquire Basic knowledge about Industrial Management.
- 2) To understand Private sector and public sector.
- 3) To understand wage and incentive plans.
- 4) Acquire knowledge of industrial legislation.
- 5) To understand Make decision-making for effective and efficient purchase, storage, inventory control and flow of materials in manufacturing and service organizations.

List of Open Source Software/learning website:

1. www.nptel.ac.in/