

1152AU116

## TRANSPORT MANAGEMENT

L T P C

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**1. Preamble**

This course provides the knowledge of fleet management, motor vehicle act and cost reduction of fleet operations and maintenance

**2. Pre-requisite**

NIL

**3. Links to other Courses**

- Automotive safety
- Quality management
- Engineering economics

**3. Course Educational Objectives**

Students undergoing this course are expected to

- Manage a transport fleet and their related activities for minimizing operational cost.

**4. Course Outcomes:**

Upon the successful completion of the course, learners will be able to

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's)
C01	Apply the principles of personnel management	K3
C02	Describe the various transport systems and advantages of motor transport.	K2
C03	Assess the operating costs for transport vehicles and estimate the fare structure.	K3
C04	Apply the Motor Vehicle Act in fleet management	K3
C05	Apply the various Maintenance activities to vehicles	K3

**5. Correlation of COs with Programme Outcomes:**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	H			H	H		H					H	M	L
CO2	H			H	H		H					H	M	L
CO3	H			H	H		H					H	M	M
CO4	H			H	H		H					H	L	M
CO5	H			H	H		H					H	L	M

H- Strong; M-Medium; L-Low

## **6. Course Content:**

### **UNIT I INTRODUCTION**

**L-9**

Personnel Management - Objectives and Functions of Personnel Management, Psychology, Sociology and their Relevance to Organization, Personality Problems. Selection Process - Job Description, Employment Tests, Interviewing, Introduction to Training Objectives, Advantages, Methods of Training, Training Procedure, Psychological Tests.

### **UNIT II TRANSPORT SYSTEMS**

**L-9**

Introduction to Various Transport Systems. Advantages of Motor Transport. Principle Functions of Administrative, Traffic, Secretarial and Engineering Divisions. Chain of Responsibility Forms of Ownership by State, Municipality, Public Body and Private Undertakings.

### **UNIT III SCHEDULING AND FARE STRUCTURE**

**L-9**

Principal Features of Operating Costs for Transport Vehicles with Examples of Estimating The Costs. Fare Structure and Method of Drawing Up of a Fare Table. Various Types of Fare Collecting Methods. Basic Factors of Bus Scheduling. Problems on Bus Scheduling.

### **UNIT IV MOTOR VEHICLES ACT**

**L-9**

Traffic Signs, Fitness Certificate, Registration Requirements, Permit Insurance, Constructional Regulations, Description of Vehicle-Tankers, Tippers, Delivery Vans, Recovery Vans, Power Wagons and Fire Fighting Vehicles. Spread Over, Running Time, Test for Competence to Drive.

### **UNIT V MAINTENANCE**

**L-9**

Preventive Maintenance System in Transport Industry, Tyre Maintenance Procedures. Causes for Uneven Tyre Wear - Remedies, Maintenance Procedure for Better Fuel Economy, Design of Bus Depot Layout.

**Total: 45 Periods**

## **7. Textbooks**

1. John Duke - Fleet Management – McGraw-Hill Co, USA -1984.
2. Kitchin.L.D., - Bus Operation - Illiffie and Sons Co., London, III edition – 1992

## **8. References**

1. Government Motor Vehicle Act –Publication on latest act to be used as on date