

1. Preamble

This course provides introduction to transport economics and business management. Intended to give students a working knowledge of money management and how to make economic comparisons of alternatives involving future benefits and cost

2. Pre-requisite

NIL

3. 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)
CO1	Explain the transport economic evaluation and demand and supply in transport sector	K2
CO2	Describe the direct and indirect cost for running a transport.	K2
CO3	Select suitable process to minimise the travel cost	K3
CO4	Describe the steps involved in transport projects	K2
CO5	Apply business management skills in order to improve the transport economics.	K3

4. Correlation with Programme Outcomes

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

H- Strong; M-Medium; L-Low

5. Course content**UNIT I ECONOMIC EVALUATION****L-9**

Introduction to Transport Economics, Overview of Basic Components of Transport, Transport and Economic Development, Demand and Supply Issues in Transportation Sector, Cost of Transport, Pricing of Transport, Law of Diminishing Returns, Demand, Supply, Equilibrium, Elasticity, Consumer Surplus, Costs, Pricing and Subsidy Policies, Demand Forecasting Methods, Factors Influencing Transport Demand, Direct and Cross-Price Elasticities of Demand, Factors that Cause Shifts in Demand Function,

UNIT II TRANSPORT COSTS**L-9**

Road User Costs, Components & Factors Affecting VOC, Fuel Consumption Relations, Material Costs, Fixed Cost Management, Direct and External Costs of Transport, Concept of Generalized Costs, Social Aspects of Transport, Joint and Common Costs of Infrastructure, Short-Term and Long-Term Costs of Supply, Marginal Cost Pricing Rule, Efficient Pricing,

Cost Complexities and Cost Recovery, Peak-Load Pricing, Second-Best Pricing, Transport Subsidies, Price Discrimination.

UNIT III TRAVEL COSTS & SAVINGS **L-9**

Economic Concepts of Travel Time Savings, Monetary Evaluation of Passengers Travel Time, Accident Costing, Congestion Costing, Road Pricing, Traffic Restraints, Road Space Rationing, Capacity Expansion, Methods of Economic Evaluation & Comparison.

UNIT IV TRANSPORT PROJECTS **L-9**

Feasibility and Evaluation, Cost, Impacts and Performance Levels, Evaluation of Alternatives, Analysis Techniques, Cost-Benefit Analysis, Social and Financial Benefits, Valuation of Time, Measures of Land Value and Consumer Benefits from Transportation Projects, Prioritization of Projects, Multi-Criteria Decision Assessment, Methods for Raising Funds for Maintenance, Improvement and Expansion of Transportation Networks: - Taxation and User Fee, Financing Through Loans, Bonds, PPPs and Concessions.

UNIT V BUSINESS MANAGEMENT **L-9**

HR Management, Operations Management, Financial Management, Project Management, Performance Evaluation, Change Management, Accounting Principles, Strategic Planning, Conflict Management, Cost Management, Crisis Management, Customer Relationship Management, Process Management, Project Management, Quality Management, Resource Management, Risk Management.

Total: 45 Periods

6. Text Books

1. Jill A. Hough, Crystal Bahe, Mary Lou Murphy and Jennifer Swenson: Intelligent Transportation Systems: Helping Public Transit Support Welfare To Work Initiatives
2. Peter R. White: Public Transport: Its Planning, Management and Operation (Natural and Built Environment Series, Kindle Edition, September 2008)

7. References

1. CMVR 1989
2. The Motor Vehicle Act 1988
3. Automotive Industry Standard