

School of Planning and Architecture, Vijayawada
Department of Planning,
Lecture Plan

Name of Course: **Transport Economics (MTP214)**

Programme & Sem:	Master of Transport Planning - II Year III Sem.
Course Duration:	20 July 2026 – 11 November 2026
Course Coordinator:	Dr. Nitesh Shukla, Assistant Professor, Department of Planning
Number of Credits:	03
Subject Category:	Theory core subject
Total Periods/Week:	03
Internal Assessment	50
End Evaluation	50
Total Marks	100 (to be converted to CGPA credit pattern as per regulations)

Subject Objective: To impart basic understanding of economics associated with transport and infrastructure.

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Unit and Assignment
Week 1 (23 July)	Introduction: Basics of microeconomics	Assignment I (5 Marks)
Week 2 (30 July)	Principles of economic analysis, Discounted Cash Flows, Analysis of user costs and benefits	
Week 3 (06 Aug)	Transport and economy, demand for transport, Elasticity of demand, Supply and Demand forecasting for transport	
Week 4 (13 Aug)	Allocation of resources within transport sectors, fixed and variable cost, joint and common cost	
Week 5 (20 Aug.)	Cost allocation, user cost, internal cost, external cost, economic cost, Principles of pricing, marginal cost pricing, price determination, revenues and subsidies	

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Week 6-7 (22 Aug - 5 Sep.)	Field Trip	
Week 8 (10 Sep)	Transport system selection, framework of evaluation at urban and regional levels	Assignment II Quiz-Closed book test (10 Marks)
Week 9 (17 Sep.)	Achievement matrices, Factor profiles, Plan ranking, Introduction to mathematical Programming, Case studies	
Week 10 (21-25 Sep)	Mid- Semester Assessment week	20 Marks
Week 11 (01 Oct.)	Private sector participation, Public private partnership, partnership models, project planning, project system management	
Week 12 (08 Oct)	Project Implementation, funds planning, budgetary and control, tendering and contract, Value analysis	Assignment III Submission/ Presentation/ Quiz (15 Marks)
Week 13 (15 Oct)	Information system, impact assessment, project report preparation	
Week 14 (22 Oct)	Transport financing: Transport costing and financing sources, pricing principles, cost recovery pricing, deficits, financial capital investment, capital market/debt.	
Week 15 (29 Oct)	Alternative financing mechanisms, multilateral and bilateral financing mechanisms, financial institutions, land as a resource	
Week 16 (05 Nov)	Theory of regulation, priorities in transport policies, priorities in infrastructure policies, Regulatory reform and coordination	

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Reference books:

1. Kenneth Button, (2010). Transport Economics, Edward Elgar Publishing Ltd. 3rd Ed.
2. Cole S, (2005). Applied transport economics: policy, management and decision making. Kogan Page Publishers.
3. Cowie J., (2009). The economics of transport: A theoretical and applied perspective. Routledge.
4. Kockelman K, Chen T D, Kam K A, & Nichols B G, (2013). The economics of transportation systems: A reference for practitioners (online available at: http://caee.webhost.utexas.edu/prof/kockelman/TransportationEconomics_Website/TranspEconReference.pdf)

Note:

1. Any other closed holidays as declared by SPAV shall supersede the above lecture plan. Holidays shown above may alter as per Notice from time to time.
2. Assessment Sessions may be re-scheduled, with prior intimation.
3. Reading lists provided is not exhaustive and is subject to addition – students are advised to follow progression of class to keep abreast of the new reading lists, if any.