

CE 556 Transportation Economics

Credit and Contact hours	3 / 3 (Lectures), 0 (Tutorials), 0 (Laboratory)														
Required, or Elective	Elective														
Course Description	Composites: Transport system costs and benefits. Engineering economic feasibility and evaluation methods. Evaluation of congestion in transport facilities. Economic regulations in public and private transport sectors. Shadow pricing. Multi-objective evaluation														
Prerequisites or Co-requisites	None														
Course Learning Outcomes	<p>Students completing this course successfully will be able to:</p> <table> <tr> <th>Course Learning Outcomes (CLOs)</th><th>Related Student Outcomes (SO)</th></tr> <tr> <td>CLO1. Introduction to transport Economics. K1</td><td>SO1</td></tr> <tr> <td>CLO2. Transport and Economic Development. K1</td><td>SO2</td></tr> <tr> <td>CLO3. The market and transport services. S1</td><td>SO2</td></tr> <tr> <td>CLO4. Multi-objective evaluation. S1</td><td>SO2</td></tr> </table>	Course Learning Outcomes (CLOs)	Related Student Outcomes (SO)	CLO1. Introduction to transport Economics. K1	SO1	CLO2. Transport and Economic Development. K1	SO2	CLO3. The market and transport services. S1	SO2	CLO4. Multi-objective evaluation. S1	SO2				
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CLO4. Multi-objective evaluation. S1	SO2														
Student Outcomes related to this Course	<p>SO 1 Recognize advanced engineering knowledge, concepts, and techniques to identify, interpret, and analyze complex and real-life engineering problems.</p> <p>SO 2 Provide solutions for complex and real-life engineering problems through critical thinking and the use of modern engineering tools, and identify their impact on social, global, cultural, environmental, safety, and economic factors.</p>														
Topics Covered	<table> <tr> <th>List of Topics</th><th>Related CLOs</th></tr> <tr> <td>1. Course Description and Introduction of Composites</td><td>CLO 1</td></tr> <tr> <td>2. Introduction to Transport Economics</td><td>CLO 1</td></tr> <tr> <td>3. Transport and Economic Development</td><td>CLO 2</td></tr> <tr> <td>4. The market and transport services</td><td>CLO 2</td></tr> <tr> <td>5. Transport Demand Elasticity</td><td>CLO 3</td></tr> <tr> <td>6. Transport Cost</td><td>CLO 4</td></tr> </table>	List of Topics	Related CLOs	1. Course Description and Introduction of Composites	CLO 1	2. Introduction to Transport Economics	CLO 1	3. Transport and Economic Development	CLO 2	4. The market and transport services	CLO 2	5. Transport Demand Elasticity	CLO 3	6. Transport Cost	CLO 4
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Textbook(s) and Other Required Material	<ul style="list-style-type: none"> Transportation Economics and Evaluation 														

Grading System	Assignments	10%
	Lecture attendance	-----
	Seminar presentation	5%
	Case/ Field Study	5%
	Overview (literature review) paper	5%
	Project - report and oral presentation	10%
	Mid-term exam	25%
	Final Exam	40%
Instructors	Prof. Abdullah Al-Mansour	
Date of Review	April, 2025	