



**Jordan University of Science and Technology**  
**Faculty of Engineering**  
**Civil Engineering Department**

CE345 Transportation Engineering - JNQF Level: 7

First Semester 2023-2024

**Course Catalog**

3 Credit Hours. The field of transportation engineering; role of transportation in society economics; social; political, and environmental, operation and vehicular characteristics for all modes of transportation. Traffic control devices, pavement markings, object marking, delineators; studs; signs; and canalization, introduction to traffic signal timings. Rail transportation; urban rail transit; railway cross section; urban rail transit. Air transport demand, selection of airport site and runway orientation, airport passenger terminal area. Water transportation including marine structures, classes of harbors and planning and design of port facilities.

**Instructor**

Name	<b>Miss Maha Mahmoud</b>
Office Location	C6 L2
Office Hours	Sun : 08:00 - 09:30 Sun : 10:30 - 11:30 Mon : 08:00 - 08:15 Tue : 10:30 - 11:30 Thu : 08:00 - 09:30 Thu : 10:30 - 11:30
Email	mamahamoud@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Sun, Tue : 13:30 - 14:30  
Room: C2010

**Prerequisites**

Line Number	Course Name	Prerequisite Type
233411	CE341 Surveying	Prerequisite / Study

<b>Mapping of Course Outcomes to Program Outcomes and NQF Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Understand different aspects of the transportation systems planning. [1L7K1, 1L7S2]	20%	
Understand the operation of the transportation systems. [1L7K1, 1L7S2]	20%	
Understand the economics of movement of persons and goods. [1L7K1, 1L7S2]	30%	
Design of the transportation engineering facilities for different modes of transportation. [1L7C1, 1L7C2, 1L7C3]	30%	

<b>Relationship to Program Student Outcomes (Out of 100%)</b>						
SO1	SO2	SO3	SO4	SO5	SO6	SO7

<b>Relationship to NQF Outcomes (Out of 100%)</b>				
L7K1	L7S2	L7C1	L7C2	L7C3
35	35	10	10	10

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