



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

CE742 Traffic Flow Theory And Control - JNQF Level: 9
First Semester 2024-2025

Course Catalog
3 Credit Hours. This course include introduction, traffic flow characteristics (Micro and Macro), and traffic stream models. Also, the course includes shock-wave analysis, queuing models, and simulation. Furthermore, the course includes the operation of unsignalized and signalized intersections.
Teaching Method: On Campus

Text Book	
Title	Traffic flow fundamentals
Author(s)	Adolf D. May
Edition	1st Edition
Short Name	textbook
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
manual	Highway Capacity Manual	TRB	1st Edition	

Instructor	
Name	Prof. Hashem Al-Masaeid
Office Location	C1 L3
Office Hours	Mon : 10:00 - 11:30 Mon : 13:00 - 14:00 Tue : 10:00 - 11:00 Wed : 10:00 - 11:30 Wed : 13:00 - 14:00 Thu : 10:00 - 12:00
Email	hashem@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Mon, Wed : 11:30 - 13:00 Room: C2008

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
- Define and explain traffic flow characteristics [1PI-1a] [1L9K1]	30%	
- Identify appropriate approaches to solve engineering problems and systems. [1PI-6b] [1L9S3]	40%	
- Evaluate, and design intersections. [1PI-2a, 1PI-2b, 1PI-2c] [1L9C6]	30%	

Relationship to Program Student Outcomes (Out of 100%)											
PI-1a	PI-2a	PI-2b	PI-2c	PI-2d	PI-3a	PI-4a	PI-4b	PI-5a	PI-6a	PI-6b	PI-7a
30	10	10	10							40	

Relationship to NQF Outcomes (Out of 100%)		
L9K1	L9S3	L9C6
30	40	30

Date Printed: 2024-10-27