



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

CE752 Open Channel Hydraulics - JNQF Level: 6

Second Semester 2023-2024

**Course Catalog**

3 Credit Hours. The basic physical principles that govern the flow of water in open channels (energy and momentum principles). Normal, critical and water surface profiles, the design of various channels' type, the design of hydraulic structures, sediment transport and the unsteady flow in open channels.

**Teaching Method:** On Campus

**Text Book**

<b>Title</b>	Open Channel Hydraulics
<b>Author(s)</b>	Chow, V.T.
<b>Edition</b>	1st Edition
<b>Short Name</b>	1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
2	Open Channel Hydraulics	Osman Akan	1st Edition	
3	The Hydraulics of Open Channel Flows: An Introduction	Chanson, H.	1st Edition	? Chanson, H. (1999). The Hydraulics of Open Channel Flows: An Introduction. Butterworth-Heinemann, Oxford, UK, 512 pages [ISBN 0 340 74067 1]
4	Open Channel Flow	Henderson, F.M.	1st Edition	? Henderson, F.M. (1966). Open Channel Flow. Macmillan Series in Civil Engineering, Macmillan Company, New York, 522 pages

**Instructor**

Name	<b>Dr. Mohammed Al-Sheriadeh</b>
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Office Location	-
Office Hours	
Email	alsheria@just.edu.jo

Class Schedule & Room
Section 2: Lecture Time: Tue : 12:30 - 15:30 Room: C2008

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Be able to identify the basic physical principles that govern the flow of water in open channels. [1L6K2]	30%	
Be able to use analytical and mathematical skills to describe and predict open-channel flow behavior using modern computational tools. [1L6S2]	30%	
Be able to effectively apply these principles and skills to the engineering solution of open-channel systems problems. [1L6C1]	40%	

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

Relationship to NQF Outcomes (Out of 100%)		
L6K2	L6S2	L6C1
30	30	40

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