



Jordan University of Science and Technology
Faculty of Computer & Information Technology
Computer Engineering Department

CPE750 Digital Image Processing

First Semester 2024-2025

Course Catalog

3 Credit Hours. Physical descriptions of continuous images; properties of the human visual system; sampling and quantization of images; matrix representation of image forming and image processing systems; unitary transforms. image compression enhancement, scene matching and recognition, and applications. Demonstrations. Students write image processing algorithms.

Teaching Method: Blended

Text Book

Title	Digital Image Processing
Author(s)	Gonzalez, Rafael and Woods, Richard
Edition	4th Edition
Short Name	Ref1
Other Information	2018

Instructor

Name	Dr. Inad Aljarrah
Office Location	C5L2
Office Hours	
Email	inad@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Mon : 13:00 - 15:00
Room: C2007

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction to digital image processing	Ch1 From Ref1
Week 2	Digital image fundamentals	Ch2 From Ref1
Weeks 3, 4, 5, 6, 7	Image enhancement	Ch3,Ch4,Ch5 From Ref1
Week 8	Color image processing	Ch6 From Ref1
Weeks 9, 10	Image compression	Ch8 From Ref1
Weeks 11, 12	Object recognition	Ch10,Ch11,Ch12 From Ref1
Weeks 13, 14	Selected topics	Ch12 From Ref1

Relationship to Program Student Outcomes (Out of 100%)																	
A	B	C	D	E	F	G	H	I	J	K	SO1	SO2	SO3	SO4	SO5	SO6	SO7

Evaluation	
Assessment Tool	Weight
Midterm exam	25%
Assignments/works	25%
Final exam	50%

Policy	
Exams	<ul style="list-style-type: none"> Exams are meant to test your UNDERSTANDING of the material covered in class. Makeup exam should not be given unless there is a valid excuse. Arrangements to take an exam at a time different than the one scheduled MUST be made prior to the scheduled exam time.
Attendance	<ul style="list-style-type: none"> Excellent attendance is expected. JUST policy requires the faculty member to assign ZERO grade (35%) if a student misses 20% of the classes. If you miss a class, it is your responsibility to find out about any announcements or assignments you may have missed.
Participation	<ul style="list-style-type: none"> Participation in class discussions is expected. Raise your hand if you have any question. Making any kind of disruption (ringing cells) and (side talks) in the class may result in your expulsion from the classroom and will affect you negatively.

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