



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

NES740 Wireless Sensor Networks

Second Semester 2020-2021

Course Catalog

3 Credit Hours. This course covers wireless sensor networking, location awareness, power management, sensor networking standards and applications, sensor network hardware/software co-design, algorithms for self-configuration and adaptation, collaborative data aggregation and processing, and tasking and programming. Both existing and proposed wireless sensor networking standards/protocols will be covered, as well as current research projects in this field.

Text Book

Title	Sensor Networks and Configuration, Fundamentals, Standards, Platforms, and Applications
Author(s)	Nitaigour P. Mahalik (Ed.),
Edition	1st Edition
Short Name	Ref #1
Other Information	Springer, 2007

Instructor

Name	Dr. Omar Banimelhem
Office Location	C5L2
Office Hours	
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Class Schedule & Room

Section 1:
Lecture Time: Mon, Wed : 11:30 - 13:00
Room: منصة الكترونية

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To introduce students to some existing applications of wireless sensor networks	10%	
To understand routing protocols for wireless sensor networks.	10%	
To understand different power management mechanisms in wireless sensor networks	15%	
To investigate novel ideas in the area of wireless sensor network via term-long research project.	40%	
To understand some Machine Learning methods in wireless sensor networks	5%	
To understand localization techniques in wireless sensor networks	10%	
To understand coverage methods in wireless sensor networks	10%	

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

Evaluation	
Assessment Tool	Weight
Midterm Exam	15%
Final Exam	25%
Term Project	60%

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