



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

CPE780 Seminar In Computer Engineering

Second Semester 2022-2023

**Course Catalog**

1 Credit Hours. This one credit course is meant to give students practice speaking in front of a scientific audience and to explore topics in detail. Students will research topics and organize presentations for other students. The topics may be any aspect of the computer engineering. The course also will guide students through the process of writing a master thesis, scientific papers and courses projects. This demands ability to link research question, research strategy, theory and methodology of experiment.

**Text Book**

<b>Title</b>	Scientific Writing for Graduate Students, a Manual on the Teaching of Scientific Writing
<b>Author(s)</b>	F. Peter Woodford
<b>Edition</b>	1st Edition
<b>Short Name</b>	Reff# 1
<b>Other Information</b>	<a href="https://books.rupress.org/sites/books.rupress.org/files/ebooks/9780874700800.pdf">https://books.rupress.org/sites/books.rupress.org/files/ebooks/9780874700800.pdf</a>

**Instructor**

<b>Name</b>	<b>Prof. Muhannad Quwaider</b>
<b>Office Location</b>	C5-L2
<b>Office Hours</b>	Sun : 10:00 - 12:00 Mon : 10:00 - 11:00 Tue : 09:00 - 11:00 Wed : 10:00 - 11:00
<b>Email</b>	mquwaider@just.edu.jo

**Class Schedule & Room**

Section 1:  
 Lecture Time: Tue : 11:30 - 12:30  
 Room: LAB

**Tentative List of Topics Covered**

Weeks	Topic	References
Week 1	Literature Review	
Week 2	Medical Application and Wireless Body Area Networks (WBAN)	
Week 3	Personal Statement	
Weeks 4, 5	The Art of Paraphrasing	
Week 6	Survey Presentation	
Weeks 7, 8	Writing the Scientific Paper	
Weeks 9, 10	Writing References	
Weeks 11, 12	Managing References	
Weeks 13, 14	Final Paper Presentation	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Introduce new students to the graduate study and research currently conducted in the department. [1SO3]	10%	
To teach the students to choose a research area, identify a thesis topic and select an advisor [1SO6]	20%	
Teach the students how to write a research paper and thesis [1SO7]	30%	
Develop presentation skills and technical paper review skills. [1SO3]	20%	
Develop skills in using digital libraries and text processing tools. [1SO7]	20%	

**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
													30			20	50

**Policy**

Topic Section	A paper (topic) will be selected during the first part of the semester.
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<p>The students submit their preliminary analysis, which will serve as the foundation for student discussions, and for writing their reports of paper analysis</p>	<ul style="list-style-type: none"> <li>o Problem statement ? how important the problem is!</li> <li>o Theoretical foundation?</li> <li>o Solutions: How good?</li> <li>o Other techniques (from other papers or your own)</li> <li>o Any possible extension of the work?</li> </ul>
<p>Paper analysis report for the paper is due in the second part of the semester. The paper analysis report may contain the following components.</p>	<ul style="list-style-type: none"> <li>o One paragraph summary of the paper comprising problem statement, proposed solution, methodology, and results.</li> <li>o Critical analysis discussing: <ul style="list-style-type: none"> <li>o How important the problem and why?</li> <li>o Is there any theoretical foundation?</li> <li>o What is the main contribution of the paper; and how significant the results are?</li> <li>o Do you recall any alternative solution that is not discussed in the paper?</li> <li>o Is there any missing detail that should have been discussed?</li> <li>o Is there any extension recommended by the paper, by you?</li> </ul> </li> <li>o References ? other papers that you read to come up with this report</li> </ul>
<p>presentations</p>	<p>Every student must make two presentations during the term</p>
<p>research short paper</p>	<p>Every student must write a research short paper (6 pages in IEEE proceedings format). The proposed paper summary (one page) is due by March 7th 2023; a first draft of the paper is due by May 2nd 2023; the final version due will be on June 13th 2023.</p>

Date Printed: 2023-03-06