



UNIVERSITI TEKNOLOGI MARA

CSC709: SPECIAL TOPIC (COMPUTATIONAL SCIENCES)

Course Name (English)	SPECIAL TOPIC (COMPUTATIONAL SCIENCES) APPROVED
Course Code	CSC709
MQF Credit	3
Course Description	The objective of this course is to help a student to get started in the Research Project in the following semester. The course provides for individual study in areas of computer science not covered in the regular curriculum under the supervision of a computer science lecturer. The supervisor guides the student in the research process. The student and the supervisor should have an agreement on the work to be done by the student in advance; and then, develop the work over the semester. Regular meetings with the supervisor are required. The student may be asked to research and review literature in the area of the planned Research Project, or to analyse/ compare/ improve/ apply selected algorithms or methods as part of the process of developing solutions to the Research Project's problem. The work done is to be presented in a form of a paper that is phrased and structured like an academic article, and also communicated in an informal oral presentation.
Transferable Skills	Reflective Learner Resourceful and Responsible Effective Communicator Tech-Savvy Adaptable Independent and Critical Thinker
Teaching Methodologies	Supervision
CLO	CLO1 Demonstrate knowledge and understanding on a particular topic of research CLO2 Initiate in critical thinking and analysis CLO3 Revise prior research and methods CLO4 Compose research activities and findings in oral and written form
Pre-Requisite Courses	No course recommendations
Topics	
1. Problem Specification 1.1) Does it describe what the author hoped to achieve accurately and clearly state the problem being investigated? 1.2) Does it describe the theoretical soundness of research background of the study? 1.3) Does the author summarize relevant research to provide context and explain what previous findings are being challenged or extended?	
2. Literature Review and Analysis, Development 2.1) Does the reviews gathered from a variety of quality resources? 2.2) Does the author include fundamental theory to support hypothesis/chosen methodology/analysis technique? 2.3) Does the author include critical review relating to the problem studied?	
3. Conclusion 3.1) Are the claims in this section supported by the results, do they seem reasonable? 3.2) Have the author indicated how the results relate to expectations and to earlier research? 3.3) Does the article support or contradict previous theories? 3.4) Does the conclusion explain how the research has moved the body of scientific knowledge forward?	

4. Report/Article Writing

- 4.1) Does the article properly written (correct use of grammar and spelling error) and well organized?
- 4.2) Does the article adhere to the IEEE format/guidelines?
- 4.3) Does all sources of references and citations, labeling of figures and tables etc are properly written and documented?

Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Discussion	Progress report	40%	CLO1 , CLO2 , CLO3

Reading List	Recommended Text	<ul style="list-style-type: none"> Swales, J. M. 2012, <i>Academic Writing for Graduate Students, 3rd Edition: Essential Tasks and Skills</i>, University of Michigan Press/ELT
	Reference Book Resources	<ul style="list-style-type: none"> Belcher, W. L. 2011, <i>Writing Your Journal Article in Twelve Weeks: A Guide to Academic Publishing Success</i>, SAGE Publications, Inc. Fink, A. G. 2013, <i>Conducting Research Literature Reviews: From the Internet to Paper</i>, SAGE Publications, Inc Rocco, T. S. & Hatcher, T. 2011, <i>The Handbook of Scholarly Writing and Publishing</i>, Jossey-Bass Wallace, M. & Wray, A. 2011, <i>Critical Reading and Writing for Postgraduates</i>, SAGE Publications Ltd.

Article/Paper List	This Course does not have any article/paper resources
---------------------------	---

Other References	This Course does not have any other resources
-------------------------	---