

## UNIVERSITI TEKNOLOGI MARA CSC776: EMERGENT COMPUTING TECHNOLOGIES

Course Name (English)	EMERGENT COMPUTING TECHNOLOGIES APPROVED				
Course Code	CSC776				
MQF Credit	3				
ingi orout					
Course Description	This course will explore current emergent computing technologies globally and locally to keep the students abreast with the opportunities created by these emergent technologies. Based on research papers, industry reports, talks and visits, students will be required to explore the emerging computing technologies body of knowledge, analyse and appraise them. This course also provides the opportunity for students to relate emerging computing technologies, their significance, the impact on society, and values, as well as a platform to sharpen their leadership and teamwork skills. It will explore different current emerging computing, networks, end user computing, big data and analytics. This course will cover emergent computing technologies such as those outline below, but the list of actual technologies covered may change as the technologies progress, in terms of both additions and deletions of technologies. The course will be based mostly on the most recent research papers on emerging computing technologies and thus the detailed course contents may and will change accordingly.				
Transferable Skills	Critical thinking, critical writing, appraisal of technologies				
Teaching Methodologies	Lectures, Blended Learning, Seminar/Colloquium, Discussion				
CLO	<ul> <li>CLO1 Appraise current emerging computing technologies.</li> <li>CLO2 Relate emerging computing technologies, their impact and values</li> <li>CLO3 Integrate leadership and teamwork skills in interpreting the feasibility of implementing one or more emerging computing technologies in the Malaysian context</li> </ul>				
Pre-Requisite Courses	No course recommendations				
Topics					
1.1) N/A					
2. Internet of Things 2.1) N/A					
3. Cloud computing 3.1) N/A					
4. Mobile computing 4.1) N/A					
5. Networks 5.1) N/A					
6. End user computing 6.1) N/A					
7. Analytics 7.1) N/A					
8. Other emergent computing technologies 8.1) N/A					

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Assessment Breakdown	%
Continuous Assessment	100.00%

Details of						
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO		
	Assignment					
	Assignment		-			
	Assignment	1	-			
	Assignment					
	Test	Test	30%	CLO1		
Article/Paper List	Recommended Text ACM, (JETC ACM, Syste IEEE, IEEE Galis Interr Lectu Jacko Fund Appli Soare Impel Recommended Article/Paper Resources Gros, and e Learr Gupta Archi 1206- Jonee WLAI West, impac policy Hoss techm & Mea Chin, and r Wirel Khan Mana techm	signment       Report on field trip       20%       CLO2         signment       Report on industrial talk       20%       CLO3         signment       Assignment 2       20%       CLO2         signment       Assignment 2       20%       CLO2         st       Test       30%       CLO1         commended       ACM, ACM Journal on Emerging Technologies in Computing (JETC), ACM New York, NY, USA       ACM, ACM Journal on Emerging Technologies in Computing Systems, ACM New York, NY, USA.         IEEE, IEEE Transactions on Emerging Topics in Computing, IEEE USA       Galis, A. & Gavras, A (Eds.) 2013, The Future Internet – Future Internet Assembly 2013: Validated Results and New Horizons, Lecture Notes in Computer Science 7858 Springer         Jacko, J 2012, Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications, 3rd Ed., CRC Press Boca Raton         Soares, S. 2013, Big Data Governance: an Emerging Imperative, MC Press         commended cle/Paper       Satyanarayanan, M. 2017, The emergence of edge computing, IEEE Computer 50(1) 20.29				
		r relevant research and techr				