

UNIVERSITI TEKNOLOGI MARA CSC776: EMERGENT COMPUTING TECHNOLOGIES

Course Name (English)	EMERGENT COMPUTING TECHNOLOGIES APPROVED				
Course Code	CSC776				
MQF Credit	3				
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 technologies including the Internet of Things, cloud computing, mobile 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	 CLO1 Appraise current emerging computing technologies. CLO2 Relate emerging computing technologies, their impact and values CLO3 Integrate leadership and teamwork skills in interpreting the feasibility of implementing one or more emerging computing technologies in the Malaysian context 				
Pre-Requisite Courses	No course recommendations				
Topics					
1. Introduction 1.1) N/A					
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%

Continuous						
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO		
	Assignment	Assignment 1	10%	CLO1		
	Assignment	Report on field trip	20%	CLO2		
	Assignment	Report on industrial talk	20%	CLO3		
	Assignment	Assignment 2	20%	CLO2		
	Test	Test	30%	CLO1		
	(JETC) ACM, Syste IEEE, IEEE Galis Intern Lectu Jacko Fund	 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, <i>Big Data Governance: an Emerging</i> Imperative, MC Press					
	Resources IEEE Gros, and e Learr Gupta Archi 1206- Jones WLAI West impac policy Hoss techn & Me. Chin, and r Wirel Khan Mana techn Mana Daim Foreo paten Chan Sche nanoi techn	 Anarayanan, M. 2017, The emergence of edge computing, <i>E Computer</i>, 50(1), 30-39 s, B. (2016) The dialogue between emerging pedagogies emerging technologies, <i>The Future of Ubiquitous rning</i>, 3-23 Ata, A., & Jha, R. K. 2015, survey of 5G network: nitecture and emerging technologies, <i>IEEE Access</i>, 3, 6-1232 es, V. K., & Sampath, H. 2015, Emerging technologies for AN, <i>IEEE Communications</i>, 53(3), 141-149 at, D. M. 2015, What happens if robots take the jobs? The act of emerging technologies on employment and public cy, <i>Centre for Technology Innovation at Brookings</i> sain, E., & Hasan, M. 2015, 5G cellular: key enabling inologies and research challenges, <i>IEEE Instrumentation easurement</i>, 18(3), 11-21 h, W. H., Fan, Z., & Haines, R. 2014, Emerging technologies research challenges for 5G wireless networks, <i>IEEE eless Communications</i>, 21(2), 106-112 nagha, S., Volberda, H., Sidhu, J., & Oshri, I. 2013, iagement innovation and adoption of emerging inologies: The case of cloud computing, <i>European tagement Review</i>, 10(1), 51-67 n, T. U., Rueda, G., Martin, H., & Gerdsri, P. 2006, exasting emerging technologies: Use of bibliometrics and ant analysis., <i>Technological Forecasting and Social nge</i>, 73(8), 981-1012. eufele, D. A., & Lewenstein, B. V. 2005, The public and otechnology: How citizens make sense of emerging mologies, <i>Journal of Nanoparticle Research</i>, 7(6), 659-667 ter relevant research and technical papers 				