

## Guide for Selecting Courses in MSc Programme in Computer Science 2017-18

(1) The MSc courses are divided in several main categories:

- Theoretical Computer Science
- Computer Engineering
- Advanced Topics in Computer Systems
- Emerging Software Technologies
- Artificial Intelligence
- Computer Graphics and Multimedia Technology
- Information Technology and IT Business
- Seminar
- Project

- (2) Whether you are a student in fulltime or parttime mode, you can take both day timecourses and evening time courses to fulfill the course requirements. For examples, if youare a fulltime student and are interested in an evening time course, you are welcome totake it. On the other hand, if you are a parttime student, but you can attend all thelectures of a day time course, you are also welcome to take the day time course.
- (3) Please note that most evening time courses will be conducted at **Productivity TrainingInstitute, HKPC Building, 78 Tat Chee Avenue, Kowloon**. The venue is very close to theMTR Kowloon Tong Station.
- (4) There is no restriction on the number of courses you take within the normative studyperiod (1 year for fulltime mode and 2 years for parttime mode). However, you musttake at least 8 courses (24 units) before graduation, among which at most 2 courses can be chosenfrom any evening time courses of other MSc programme within the Faculty ofEngineering, or the MSc programme in Information and Technology Management offeredby the Faculty of Business Administration (except **DSME 6790**).
- (5) Please note that there are pairs of courses that are mutually exclusive. That is, if you takeany one of these two courses, then you cannot take the other one. For example, if youtake ENGG5189, then you cannot take CMSC5705, and vice versa. Other mutual exclusionscan be found in the course descriptions.
- (6) Please also note that CMSC5720 and CMSC5721 must be taken together. That is to say,you cannot take one of them without taking the other.
- (7) The course selection exercise will begin from Tuesday 8 August 2017 and end on Friday 11 August 2017. Please login the registration website at <https://portal.cuhk.edu.hk/>.
- (8) Please note that there might be future changes to the course list. Please refer to theGraduate School Website ([www.cuhk.edu.hk/gss](http://www.cuhk.edu.hk/gss)) for the latest list of courses.
- (9) For enquiry, please call Ms Ivy Chau at 3943 8485, or email to [info@msc.cse.cuhk.edu.hk](mailto:info@msc.cse.cuhk.edu.hk).

	<i>Term One Day Time Courses</i>	<i>Term One Evening Time Courses</i>	<i>Term Two Day Time Courses</i>	<i>Term Two Evening Time Courses</i>
<i>Theoretical Computer Science</i>	CSCI5350 Advanced Topics in Game Theory		CSCI5010 Practical Computational Geometry Algorithms CSCI5030 Machine Learning Theory CSCI5150 Machine Learning Algorithms and Application CSCI5160 Topics in Algorithms CSCI5240 Combinatorial Search and Optimization with Constraints CSCI5320 Topics in Graph Algorithms CSCI5440 Theory of Cryptography	CMSC5718 Introduction to Computational Finance CMSC5728 Decision Analysis & Game Theory
<i>Computer Engineering</i>				
<i>Advanced Topics in Computer Systems</i>	CSCI5120 Advanced. Topics in Database System		CENG5270 EDA for Physical Design of Digital System	CMSC5702 Advanced Topics in Parallel / Distributed Systems CMSC5726 Computer and Network Security CMSC5735 Advanced Topics in Cloud Computing
<i>Emerging Software Technologies</i>	CSCI5570 Large Scale Data Processing Systems ENGG5103 Techniques for Data Mining	CMSC5736 Mobile Apps Design and Implementation CMSC5741 Big Data Technology and Applications	CSCI5550 Advanced File and Storage Systems	
<i>Artificial Intelligence</i>	CSCI5580 Online Algorithms for Machine Learning and Optimizations	CMSC5707 Advanced Topics in Artificial Intelligence CMSC5724 Data Mining and Knowledge Discovery	CSCI5050 Bioinformatics and Computational Biology ENGG5189 Advanced Topic in Artificial Intelligence	
<i>Computer Graphics and Multimedia Technology</i>	CSCI5460 Virtual Reality		CSCI5210 Advanced Topics in Computer Graphics and Visualization	CMSC5716 Web Based Graphics & Virtual Reality Systems
<i>Information Technology and IT Business</i>				CMSC5711 Image Processing and Computer Vision
<i>Information Technology</i>		CMSC5713 IT Project Management		
<i>Seminar Project</i>		CMSC5720 Project I		CMSC5721 Project II