

College of Science and Engineering

科學及工程學院

Department of Electronic Engineering

電子工程學系



香港城市大學  
City University of Hong Kong

專業 創新 胸懷全球  
Professional · Creative  
For The World

# Master of Science in Multimedia Information Technology

## 理學碩士(多媒體資訊科技)



Student Handbook  
**2018-2019**

# STUDENT HANDBOOK

<b>Contents</b>	<b>Page</b>
1. Head's Welcome	1
2. Programme Management Team	2
3. Introduction	3
4. Programme Information	5
5. Communication Channels	17
6. Frequently Asked Questions	19

## **Appendices**

Appendix I	Staff List	22
Appendix II	Academic Calendar 2018/19	28
Appendix III	Location map of EE Laboratories	30
Appendix IV	Glossary	32

\* This booklet aims only to provide an easy reference for students. The contents of this document will be updated from time to time. Students affected by the change(s) will be notified via email. Updated information can also be accessed through the Student Page - Programme Information (Username: eestudent; Password: eestudent) at EE homepage: [www.ee.cityu.edu.hk](http://www.ee.cityu.edu.hk).

## HEAD'S WELCOME

Dear Students,

Welcome to the Department of Electronic Engineering (EE)! EE is always striving for being a leading department of its kind among global tertiary institutions and providing programmes that are of the highest possible standard with an enhancement of specialist technical knowledge relevant to the current and anticipated needs from the industry. You are here to experience the dynamics of EE and we appreciate your input and feedback for our continuous improvement.

You will be joining a family with students in diverse backgrounds, covering students from local, mainland China and overseas, full-time working engineers, students with different Bachelor's degrees, etc.. It will be a place for you to meet and study side-by-side with different people, not only for equipping the technical knowledge, but also to gain social, networking and communication skills, far more than you can imagine.

The time you stay with us may be around one to two years. It's not that long. I would suggest you plan in details what you would like to achieve and how to achieve the best outcomes at the very beginning of the academic year. Don't hesitate to contact any Programme Team members for advice and assistance. We are all here to support and guide you throughout your course of study.

I sincerely hope that you find the study here extraordinarily rewarding yet enjoyable.



Stella W Pang

Head and Chair Professor

Department of Electronic Engineering

August 2018

## PROGRAMME MANAGEMENT TEAM

**Associate Programme Leader  
(Postgraduate Programmes)**

Dr Leanne Chan  
Tel: 3442-9120  
Email: [lhlchan@cityu.edu.hk](mailto:lhlchan@cityu.edu.hk)

### **General Enquiries**

Ms Teresa Chow

Executive Officer II  
Tel: 3442-7087  
Email: [lychow@cityu.edu.hk](mailto:lychow@cityu.edu.hk)

Ms Kate Szeto

Clerical Officer I (Student Liaison)  
Tel: 3442-7869  
Email: [kmkszeto@cityu.edu.hk](mailto:kmkszeto@cityu.edu.hk)

Fax No.

3442-0562

Web Site

<http://www.ee.cityu.edu.hk>

Location of General Office

Rm G6322, 6/F, Green Zone, Yeung Kin Man  
Academic Building  
(Please take Lift 7)

## INTRODUCTION

**A. Programme Title : MSc in Multimedia Information Technology (MSMIT)**

理學碩士(多媒體資訊科技)

**Optional Exit Routes**

- **Business Management (BM) Option**
- **Industrial Research (IR) Option**

**B. Mode of Attendance and Study Duration**

	MSMIT		MSMIT with BM		MSMIT with IR	
	Full-time	Part-time/ combined mode	Full-time	Part-time/ combined mode	Full-time	Part-time/ combined mode
Normal period of study	1 year	2 years	1.5 years	3 years	1.5 years	N/A
Maximum period of study	2.5 years	5 years	3.5 years	7.5 years	3.5 years	N/A

**C. Programme Aim**

The programme provides well-structured training for IT professionals who want to keep abreast with the dynamics in multimedia and information technology. It aims at equipping students with in-depth knowledge of the state-of-the-art multimedia information technology and the necessary skills to meet the needs from the community. On completion of the programme, students with different technical backgrounds and aspirations can:

- have a strong theoretical foundation in multimedia systems and applications, mobile computing, internet computing and networking
- acquire analytical ability that enables them to conduct high-level research and development in the rapidly changing IT industry
- enhance their capacity to continue professional and career development

#### **D. Programme Intended Learning Outcomes**

On completion of the programme, students should have the following demonstrable learning outcomes:

1. Describe current and anticipated trends in the selected areas including the processing, storage, retrieval, communication and visualization of multimedia information.
2. Evaluate and analyze new technologies in the selected areas.
3. Apply specialist knowledge in the selected areas.
4. Assess, evaluate and formulate solutions to problems or specifications, in the selected areas.
5. Carry out research and develop new technologies and products in the selected areas.
6. Apply effective communication skills in their professions.
7. Manage teams of technologists with good senses of business and marketing (BM option only).
8. Manage a research project and develop strong ability to do academic/ industrial research (IR option only)

#### **E. Business Management Option**

The exit route, Business Management option aims to equip engineering students with business management skills on top of the specialist technical knowledge, and thus enabling students to cope with the industrial demand of well-rounded professionals and take up managerial positions in their career.

#### **F. Industrial Research Option (For students who opt for studying full-time mode only)**

The exit route, Industrial Research option offers an Applied Research Internship Scheme to be carried out in industrial companies or research institutions, either locally or in overseas for 6 to 9 months, equipping students the professionalism to handle a technically challenging research project intellectually, innovatively and independently. This provides an even more flexible way-out that the industrial and research experiences earned advantageously prepare graduates for full employment immediately after the internship, or for further studies as PhD candidates in their chosen technology areas either locally or in overseas countries.

## PROGRAMME INFORMATION

### A. Multiple exit routes and re-entry routes

Entry/Exit routes	Credits gained on exit	Re-entry routes	
		To	Maximum allowable credit transfer <sup>1</sup>
MSMIT	30 CUs	BM Option	30%
BM Option <sup>2</sup>	45 CUs	N.A.	
IR Option <sup>3</sup>	45 CUs	N.A.	

Notes:

1. Grades from transferred credits may be counted in the calculation of a student's GPA for the award being pursued.
2. Students who want to opt for the BM option should fill in the BM option application form available from the General Office, or download from "Student Page - Programme Information" under the EE website: <http://www.ee.cityu.edu.hk> (Login: eestudent, Password: eestudent).
3. Industrial Research (IR) option is for students who opt for studying full-time mode only. Details for transferring to this exit route will be advised via email in due course.

### B. Laboratory

The laboratory session, being an integral part of an elective course, consists of experiments and mini-projects to enable students to fully appreciate and make use of the lecture materials.

## C. Programme Requirements

### **MSMIT:**

Students must complete a total of 30 CUs of which:

- At least 6 CUs of EE core courses
- At least 15 CUs of technical elective courses (Group I+II) where no more than 9 CUs of Group II electives
- No more than 6 CUs of BM electives
- Minimum 18 CUs of EE courses

### **Industrial Research (IR) Option<sup>1</sup>:**

Students must complete a total of 45 CUs of which:

- At least 6 CUs of EE core courses excluding EE6691
- At least 15 CUs of technical elective courses (Group I + II) where no more than 9 CUs of Group II electives
- No more than 6 CUs of BM electives
- 15 CUs of EE6691 Applied Research Internship Scheme in Electronic Engineering
- Minimum 18 CUs of EE courses excluding EE6691

### **Business Management (BM) Option<sup>2</sup>:**

Students must complete a total of 45 CUs of which:

- At least 6 CUs of EE core courses
- At least 15 CUs of technical elective courses (Group I + II) where no more than 9 CUs of Group II electives
- At least 15 CUs of BM electives
- Minimum 18 CUs of EE courses

Notes:

1. The award title will be “Master of Science in Multimedia Information Technology with Industrial Research”.
2. The award title will be “Master of Science in Multimedia Information Technology with Business Management”.

## D. Course Assessment Table

The course details are shown in Figure 1. The offering schedule specified in Figure 1 is under normal circumstances and might be subject to change due to different timetabling and teaching assignment constraints in different years. Students may take it as reference and please pay attention to the master class schedule announced by the Chow Yei Ching School of Graduate Studies (SGS) prior to each semester for course registration and add/drop arrangement. Also the course syllabus or assessment are under continuous review as deemed necessary and appropriate. For the latest course information, you are always advised to refer to the syllabus of each course which is available at "Student Page - Programme Information" under the EE website: <http://www.ee.cityu.edu.hk>. (Login: eestudent, Password: eestudent).



**Figure 1 : Course Assessment Table for MSMIT, BM Option and IR Option (2018/2019 and Summer 2019)**

**MSMIT**

Students must complete a total of 30 CUs of which:

- At least 6 CUs of EE core courses
- At least 15 CUs of technical elective courses (Group I + II) where no more than 9 CUs of Group II electives
- No more than 6 CUs of BM electives
- Minimum 18 CUs of EE courses

**Industrial Research (IR) Option**

Students must complete a total of 45 CUs of which:

- At least 6 CUs of EE core courses excluding EE6691
- At least 15 CUs of technical elective courses (Group I + II) where no more than 9 CUs of Group II electives
- No more than 6 CUs of BM electives
- 15 CUs of EE6691 Applied Research Internship Scheme in Electronic Engineering
- Minimum 18 CUs of EE courses excluding EE6691

**Business Management (BM) Option**

Students must complete a total of 45 CUs of which:

- At least 6 CUs of EE core courses
- At least 15 CUs of technical elective courses (Group I + II) where no more than 9 CUs of Group II electives
- At least 15 CUs of BM electives
- Minimum 18 CUs of EE courses

Students can decide on their own pace of studies based on the pre-requisite and pre-cursor requirements. Part-time students can select courses of up to 9 credit units in each semester and complete the programme normally within 2 years' time, except for students who opt for BM option and normally complete the programme in 3 years. Full-time students can select courses of up to 18 credit units in each semester and complete the programme normally within 1 year time, except for students who opt for BM/IR option and normally complete the programme in 1.5 years.

Pre-Cursor <sup>1</sup>	Pre-Requisite <sup>2</sup>	Offer In Sem	Course Code & Course Title	CU	Contact Hours				C %	X %	Exam Dur	Exclusive Course	Equivalent Course	Note
					Lec	Tut	Lab	Ttl						
<b>Core Courses (Students should take at least 2 out of 3 Core Courses excluding (EE6691))</b>														
(MA2149 or MA2170) and (EE3210 or EE3118) or EE5410		A	EE5806 Topics in Image Processing	3	26	13	0	39	30	70	2	Nil	Nil	4
(MA3150 or MA3151) and (MA3160 or EE3313) and (CS2363 and EE2331) C Programming is required		B	EE5808 Topics in Computer Graphics	3	26	13*	0	39	40	60	2	Nil	Nil	4
EE3210 or EE3118		A	EE5809 Digital Audio Processing and Applications	3	26	13	0	39	30	70	2	Nil	Nil	4
	30 CUs of MSc elective courses	A/B/S	EE6691 Applied Research Internship Scheme in Electronic Engineering	15	N.A.			N.A.	100	0	0	EE6680, EE6690	Nil	10
<b>Group I Technical Electives</b>														
		A	CS6175 Virtual Reality and Game-Engine Technologies (not offered in 2018/19)	3	26	13	0	39	40	60	2	Nil	Nil	5
	CS5187 or CS5286 or CS5487	B	CS6187 Vision and Language (not offered in 2018/19)	3	26	13	0	39	70	30	2	Nil	Nil	5
	CS5222 or CS5275 or EE5412	B	CS6223 Distributed Systems (not offered in 2018/19)	3	26	13	0	39	30	70	2	Nil	Nil	5
	CS5285	B	CS6290 Privacy-enhancing Technologies	3	26	13	0	39	60	40	2	Nil	Nil	5
EE3008 or EE3112 or EE3210		A	EE5410 Signal Processing	3	39	0	0	39	40	60	2	Nil	Nil	4
EE6412	EE5412	A	EE6413 Advanced Topics in Networking Technologies (not offered in 2018/19)	3	39	0	0	39	40	60	2	Nil	Nil	4
EE3101 or EE4115 or EE5809		B	EE6432 Topics in Digital Video Broadcasting (not offered in 2018/19)	3	26€	13	0	39	40	60	2	Nil	Nil	4

Pre-Cursor <sup>1</sup>	Pre-Requisite <sup>2</sup>	Offer In Sem	Course Code & Course Title	CU	Contact Hours				C %	X %	Exam Dur	Exclusive Course	Equivalent Course	Note
					Lec	Tut	Lab	Ttl						
	EE2331	B	EE6435 Multi-Dimensional Data Modeling and its Applications	3	26	13	0	39	40	60	2	Nil	Nil	4
MA3150		B	EE6605 Complex Networks: Modeling, Dynamics and Control (not offered in 2018/19)	3	39	0	0	39	40	60	2	Nil	Nil	4
CS2363 and, either EE3313 or MA3160		A	EE6610 Queueing Theory with Telecommunications Applications	3	26	13	0	39	50	50	2	Nil	Nil	4
	12 CUs of MSc elective courses	A/B/S	EE6611 Directed Studies for Taught Postgraduate Students	3	39 <sup>^</sup>			39	100	0	0	EE6680	Nil	
EE2301 or EE3003		B	EE6613 Green Electronics – Theory, Eco-design, Experiments and Applications	3	39 <sup>Ω</sup>	0	0	39	60	40	2	Nil	Nil	4
EE2301 or EE3003		A	EE6614 Reliability Engineering in Electronics Industry	3	39 <sup>@</sup>	0	0	39	60	40	2	Nil	Nil	4
EE3210, EE3008 or Courses in Signal Processing & Communication		B	EE6617 Detection and Estimation – Theory and Applications in Communications (not offered in 2018/19)	3	39 <sup>β</sup>	0	0	39	50	50	2	Nil	Nil	4
	EE4115	A	EE6618 Three Dimensional (3D) Video Display Technology	3	39 <sup>±</sup>	0	0	39	60	40	2	Nil	Nil	4
	EE5410 or EE5802	A	EE6802 Advances in Digital Signal Processing (not offered in 2018/19)	3	26	13 <sup>*</sup>	0	39	50	50	2	Nil	Nil	4
	EE5410 or EE3202 or EE3210	B	EE6805 Video and Speech Compression (not offered in 2018/19)	3	26	13 <sup>*</sup>	0	39	40	60	2	Nil	Nil	4
	12 CUs of MSc elective courses and CGPA 2.5 or above	A/B/S	EE6680 Dissertation	9	N.A.			N.A.	100	0	0	EE6691, EE6611	Nil	8
	12 CUs of MSc elective courses	S	EE6690 Internship Scheme in Electronic Industry	3	N.A.			N.A.	100	0	0	EE6691	Nil	11

Pre-Cursor <sup>1</sup>	Pre-Requisite <sup>2</sup>	Offer In Sem	Course Code & Course Title	CU	Contact Hours				C %	X %	Exam Dur	Exclusive Course	Equivalent Course	Note
					Lec	Tut	Lab	Ttl						
		A	SM5304 Animation : Principles and Practice	3	39 (Lectures+ Workshops)				100	0	0	Nil	Nil	6
		B	SM5306 Cinematic Arts Workshop	3	39 (Lectures+ Workshops)				100	0	0	Nil	Nil	6
		A	SM5307 Digital Media & Moving Images	3	39 (Lectures+ Workshops)				100	0	0	Nil	Nil	
<b>Group II Technical Electives</b>														
	CS3334 or CS4335	B	CS5187 Vision and Image	3	26	13	0	39	50	50	2	Nil	Nil	5
	CS3201 or CS5222, EE5412	B	CS5275 High Speed Multimedia Networks (not offered in 2018/19)	3	26	13	0	39	30	70	2	Nil	Nil	5
	CS2310 and CS4335	A	CS5282 Practical Optimization Algorithms and Techniques	3	26	13	0	39	50	50	2	Nil	Nil	5
	CS5222 or EE5412	B	CS5284 Mobile Computing (not offered in 2018/19)	3	26	13	0	39	40	60	2	Nil	Nil	5
		A	CS5285 Information Security for eCommerce	3	26	13	0	39	40	60	2	Nil	Nil	5
		B	CS5367 Computer Games Design (not offered in 2018/19)	3	26	13	0	39	40	60	2	Nil	Nil	5
		A	CS5481 Data Engineering	3	26	13	0	39	30	70	2	Nil	Nil	5
	CS3334 and (MA2176 or MA2170 or MA2172)	A	CS5487 Machine Learning	3	26	13	0	39	70	30	2	Nil	Nil	12
		A	EE5412 Telecommunication Networks	3	26	13	0	39	30	70	2	Nil	Nil	3
EE5412		B	EE5413 Advanced Internet Technologies (not offered in 2018/19)	3	26	13 $\mu$	0	39	30	70	2	Nil	Nil	4
EE2331 or EE3206		B	EE5414 Development and Design in Embedded Systems (not offered in 2018/19)	3	39 $\pounds$	0	0	39	60	40	2	Nil	Nil	3

Pre-Cursor <sup>1</sup>	Pre-Requisite <sup>2</sup>	Offer In Sem	Course Code & Course Title	CU	Contact Hours				C %	X %	Exam Dur	Exclusive Course	Equivalent Course	Note
					Lec	Tut	Lab	Ttl						
EE2331 or EE3206 or EE5414		B	EE5415 Mobile Applications Design and Development	3	39£	0	0	39	60	40	0	Nil	Nil	3
		A	EE5433 Innovation in Multimedia Technology and Marketplaces for Mobile Applications (not offered in 2018/19)	3	39≥	0	0	39	60	40	2	Nil	Nil	4, 9
CS2363 or Experiences in software design, and knowledge in Data Structures and Relational Database are preferred		S	EE5805 Java Network Programming	3	26	13	0	39	50	50	2	Nil	Nil	4
(MA3150 or MA3151) and (MA3160 or EE3313) and CS2363 C Programming is required		A	EE5811 Topics in Computer Vision (not offered in 2018/19)	3	26	13*	0	39	40	60	2	Nil	Nil	4
MA3150 or MA3151		B	EE5815 Topics in Security Technology	3	24	12*	3	39	40	60	2	Nil	Nil	3
		B	EE6612 Studies on Electronics Industry in China and Asia Pacific (not offered in 2018/19)	3	8	Tut 13 + Company Visits 9 + Case Studies 9		39	40	60	2	Nil	Nil	4, 9
		B	SM5332 Making Things Blip, Blink & Move: Introduction to Physical Computing (not offered in 2018/19)	3	39	0	0	39	100	0	0	Nil	Nil	6

Group III Business Management Electives															
		A	EE5433	Innovation in Multimedia Technology and Marketplaces for Mobile Applications (not offered in 2018/19)	3	39≥	0	0	39	60	40	2	Nil	Nil	4, 9
		B	EE6612	Studies on Electronics Industry in China and Asia Pacific (not offered in 2018/19)	3	8	Tut 13 + Company Visits 9 + Case Studies 9		39	40	60	2	Nil	Nil	4, 9
		A	EF5010	Economics for Business (not offered in 2018/19)	3	39 (Seminar)		39	50	50	2	FB5001	EF4010	13	
		A&B	EF5042	Corporate Finance	3	39 (Seminar)		39	50	50	2	FB5040	Nil	13	
		A	FB5632	e-Commerce and Digital Marketing (not offered in 2018/19)	3	39 (Lectures+ In-class Activities+ Group Project)		39	100	0	0	Nil	Nil		
		B	FB6622	Services Marketing (not offered in 2018/19)	3	39 (Lectures+ Guest Talks+ Debates)		39	70	30	2	Nil	MKT6622		
		A	IS5414	Analysis and Design of ecommerce Systems	3	26	0	13	39	60	40	2	Nil	Nil	7
		A	MGT5204	Organizational Behaviour	3	39 (Seminar)		39	70	30	2	Nil	FB5304		
		A	MGT5205	Strategic Management	3	39 (Seminar)		39	60	40	2	FB6811, MGT6514, FB6502	Nil		
		A	MGT5313	International Organizational Behaviour	3	39 (Seminar+ Case Discussions, Experiential Exercises+ Readings+ Barefoot Research)		39	50	50	2	Nil	Nil	14	
		B	MGT5316	Human Resources Management	3	39 (Lectures+ Case Analysis+ Quiz+ Group Debate)		39	100	0	0	MGT6311, MGT6314, MGT6318, FB6311	Nil	14	
MGT5204		B	MGT6209	High Performance Collaborations	3	39 (Seminar)		39	100	0	0	Nil	Nil		

	MGT5313	B	MGT6314 Global Human Resources Management	3	39 (Seminar)			39	50	50	3	MGT5316, MGT6311, FB6311	Nil	14
MGT6311	MGT5204	A	MGT6318 Employee Engagement and Performance	3	39 (Seminar+ Experiential Exercises+ Group Project)			39	70	30	2	MGT5316	Nil	
		A	MGT6323 Cross-Cultural Negotiation	3	39 (Lectures+ Presentations+ In-class exercises+ Discussions)			39	65	35	2	Nil	Nil	14
		B	MGT6325 International Entrepreneurship & Intrapreneurship	3	39 (Lectures+ In-class Exercises & Discussions+ Case Study & Reading+ Project Presentation)			39	100	0	0	Nil	Nil	14
		A	MGT6326 Managing International Business	3	39 <sup>©</sup>	0	0	39	70	30	2	MGT5510	Nil	14
Knowledge of Basic Probability & Statistics and MEEM3060/ SEEM3060		A	SEEM6015 Supply Chain Management	3	39	0	0	39	100	0	0	Nil	MEEM6015	
		A	SEEM6037 Managing Strategic Quality	3	26	13	0	39	50	50	2	Nil	MEEM6037	5
		A	SEEM6044 China Engineering Enterprise Management (not offered in 2018/19)	3	39*	0	0	39	100	0	0	Nil	MEEM6044	

Key : CU = Credit Unit    Lec = Lecture    Tut = Tutorial    Lab = Laboratory  
C = Coursework    X = Examination    Exam Dur = Exam Duration    S/A/B = Semester Summer/Semester A/Semester B

Notes:

1. Pre-cursors are not requirements, but students are advised to have adequate knowledge of the pre-cursors before registering in a particular course.
  2. Pre-requisites are requirements that must be fulfilled before students can register in a particular course.
    - Equivalent courses proposed by students, other than those listed, are to be considered and approved by the course leader concerned.Students' proposal of an equivalent course to fulfil the pre-requisite requirement can be considered case-by-case. Supporting documents, for example, the syllabus of the proposed course and the relevant transcript should be submitted to the General Office together with the hard copy of Add/Drop form during the ADD/DROP period of the semester.
  3. To pass the course, students are required to achieve at least 30% in course work and 30% in the examination. Also, 75% laboratory attendance rate must be obtained.
  4. To pass the course, students are required to achieve at least 30% in course work and 30% in the examination.
  5. For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.
  6. SCM courses are offered in day time only.
  7. Student must pass both coursework and examination in order to get an overall pass in this course.
  8. Course Duration: Part-time mode: minimum 3 consecutive semesters/terms, maximum 5 consecutive semesters/terms; Full-time mode: minimum 2 consecutive semesters/terms, maximum 4 consecutive semesters/terms. Students taken EE6680 Dissertation (9 credit units) and upon successful completion of the programme requirement will be considered eligible to apply PhD programme of CityU, provided that the English proficiency requirements are met.<sup>9</sup>.
  9. CUs earned from this course could be counted as either fulfilling credit unit requirement of Group II technical electives or that of business management elective.
  10. For full-time mode student only: 2 semester/term with possibility to extend for 1 more semester/term (As set out in City University's Academic Regulations, Dissertation-type courses are not allowed to be repeated). Also, the coursework assessment is divided into two major components: Internship Component (40%) and Research Component (60%).
  11. The course will be conducted by having internship in local or overseas institution for 9 – 13 weeks. The assessment will be in a form of completion of log book, discussions/visits to obtain feedback from training company and final presentation.
  12. To pass the course, at least 30% of the maximum mark for the examination and course project must be obtained.
  13. Students are required to pass both coursework and examination components in order to pass the course.
  14. Two-year full-time working experience (internship experience or similar are not counted) is required for taking this Management (MGT) course.
- @ Some of the lectures will be conducted in the laboratory as case studies, demonstrations and experiments.
- \* Some of the tutorials will be conducted in the laboratory.
- μ Tutorials may be substituted with lecturers/laboratories.
- ^ Mixture of Research, Oral presentation, Test/examination/demonstration.
- £ Some of the lectures will be conducted in the laboratory.
- ® 6 weeks of the lectures will be conducted in the laboratory as Laboratory sessions.
- € Some of the lectures will also be conducted in class as mini-projects.
- ± Some of the lectures hours will also be conducted as in-class exercises, case studies, and mini-projects.
- ≥ Some of the lectures will be conducted in the form of laboratory tutorial, case studies, and presentation.
- Ω Some of the lectures will be conducted in the laboratory as case studies, demonstrations, project discussions, Eco-design simulations and experiments.
- β Case study: 3hrs/wk for 1 week
- © Student are expected to spend 1.5hrs/week on case study.
- × Small class/ group based learning activities: 13 hours/semester (in-class)



References for Pre-cursors, Pre-requisites, Exclusive Courses and Equivalent Courses not included in the Programme course-list:

<u>Course Code</u>	<u>Course Title</u>	<u>Course Code</u>	<u>Course Title</u>
EE2301	Basic Electronic Circuit	EF4010	Economics for Business
EE2331	Data Structures and Algorithms	FB5001	Managerial Economics
EE3003	Electronic Product Design	FB5040	Financial Management
EE3008	Principles of Communications	FB5304	Management and Organizational Behaviour
EE3101	Communication Engineering	FB6311	Strategic Human Resources Management
EE3110	Analogue Electronic Circuits	FB6502	Strategic Management
EE3112	Signal Analysis	FB6811	Strategic Management
EE3118	Linear Systems and Signal Analysis	MA2149	Mathematical Analysis
EE3202	Digital Signal Processing	MA2170	Linear Algebra and Multi-variable Calculus
EE3206	Java Programming and Applications	MA2172	Applied Statistics for Sciences & Engineering
EE3210	Signals and Systems	MA2176	Basic Calculus and Linear Algebra
EE3313	Applied Queuing Systems	MA3150	Advanced Mathematical Analysis
EE4115	Audio-Visual Engineering	MA3151	Advanced Engineering Mathematics
EE5802	Digital Signal Processing	MA3160	Probability and Stochastic Processes
EE6412	Signaling, Switching & Routing in Telecommunication Ntwks	MEEM3060	Operations Research
CS2310	Computer Programming	MEEM6015	Supply Chain Management
CS2363	Computer Programming	MEEM6037	Managing Strategic Quality
CS3201	Computer Networks	MEEM6044	China Engineering Enterprise Management
CS3334	Data Structures	MGT5510	International Business & the Global Geopolitics for Managers
CS4285	High Speed Multimedia Networks	MGT6311	Human Capital Management
CS4335	Design and Analysis of Algorithms	MGT6514	Strategic management and Business Policy
CS5222	Computer Networks and Internets	MKT6622	Services Marketing
CS5286	Algorithms & Techniques for Web Searching	SEEM3060	Operations Research
CS5487	Machine Learning		

**E. Tuition Fee for 2018/19**

Programme fee: HK\$3,350 per credit unit (local students)

HK\$5,050 per credit unit (non-local students)

**F. Cut-off Date for Calculating Tuition Fee**

At the end of the Web Registration Period (i.e. Add/Drop Period) which is normally the first teaching day in Week 2.

**G. Leave of Absence and Continuation Fee**

If a student does not wish to take any courses in any semester, he/she MUST apply for Leave of Absence by the end of Week 2. He/She is required to pay a Continuation Fee of \$1,500. Students applying for Leave of Absence should submit an online application via AIMS. Details can be found at SGS website (<http://www.sgs.cityu.edu.hk/student/TPg/record/leave>)

**H. Fee for Late application for Leave of Absence**

- (i) If a student applies for Leave of Absence from Week 3 till the end of Week 6<sup>#</sup> in Semester A/B (or the end of Week 3<sup>#</sup> in Summer Term), the student will be liable for 50% of the tuition fee payable for that semester/term, or the minimum tuition for two credit units (for programmes charged on a per credit unit basis), whichever is higher
- (ii) If a student applies for Leave of Absence in Week 7<sup>#</sup> and afterwards in Semester A/B (or Week 4<sup>#</sup> and afterwards in Summer Term), the student will be liable for 100% of the tuition fee payable for that semester/term, or the minimum tuition for two credit units (for programmes charged on a per credit unit basis), whichever is higher.

# Sunday is the first day of the week.

## COMMUNICATION CHANNELS

Students are welcome to share your concerns and opinions with staff of the Department through the following formal and informal channels. You may simply drop in the staff's office or send an email to arrange a meeting with him/her.

### **Course Leaders**

Your course leaders are here to guide you through your studies. If you encounter any difficulties in a particular course, speak directly to the lecturer responsible for the course.

### **Associate Programme Leader (Postgraduate Programmes)**

Your associate programme leader are concerned about students' overall performance and curriculum design. They are also responsible for the day-to-day management of the programme. Let them hear your voice!

### **Associate Head**

The Associate Head is responsible for coordinating the academic affairs of the Department and overseeing the quality of all taught programmes. He welcomes suggestions for enhancing teaching and learning quality.

### **EE Student Page**

The most updated information about the programme can be found at the Student Page under the EE homepage at <http://www.ee.cityu.edu.hk>. Both the user name and password are "eestudent". Do always check for updates.

### **Emails**

The Department will also interact with students via email and informal contacts by staff members, as appropriate. Since important announcements will be sent to students via email, students are requested to check their emails frequently.

## **Programme Committee**

This is a formal consultative channel between staff and students. It typically meets once per semester.

### *Constitution*

Chairman	Associate Programme Leader (Postgraduate Programmes)
Ex-officio Members	Associate Head
Nominated Members	At least one programme advisor from each level of the course/subject group One staff representative of each servicing department
Student Members	One student representative from current students studying the programme
Co-opted Members	No more than two co-opted members

The term of office of all nominated, elected and co-opted members shall be one year.

### *Terms of Reference*

Within the policies and procedures of the Senate and the College Board to be responsible for the College Board for –

1. The maintenance of the quality of the programme to ensure the attainment of its aims and objectives, including:
  - ♦ Systematic monitoring and evaluation of the programme;
  - ♦ The review of examination results of the programme;
  - ♦ Consideration of external examiners' reports on the programme and monitoring of any consequential action;
  - ♦ The development of the programme and modifications to it;
  - ♦ The consideration of the student feedback on the programme.
2. The development of policy to meet the needs of the programme in relation to:
  - ♦ The recruitment and selection of students;
  - ♦ Assessment;
  - ♦ Teaching and learning methods.
3. Recommending to the College Board the appointment of proposed external examiners.
4. The preparation of such reports as may be required by the College Board or Senate including submission to the Head of Department each year of an annual report on the programme.

## FREQUENTLY ASKED QUESTIONS

Q1: How can I register for courses?

Check the announcements from the Chow Yei Ching School of Graduate Studies (SGS) or visit this website for details: <http://www.sgs.cityu.edu.hk/student/tpg/coursereg>.

Q2: When and how can I apply for credit transfer?

- Application period for courses taken before you entered the University: 16 July to 1 September 2018.
- Application for courses completed after admission: made immediately in the semester following attainment of the additional qualification. For details and application method, please visit SGS website: <http://www.sgs.cityu.edu.hk/student/TPg/record/credittransfer>.

Q3: How can a student graduate?

A postgraduate student can graduate if he/she has fulfilled all programme requirements AND achieved a CGPA of 2.0 or above.

Q4: How can I select elective courses?

Students will be notified of the course selection exercise for next academic year via email around June/July each year. Students can select electives through the EE on-line elective selection system. EE and other servicing departments will determine whether to offer certain courses based on the data collected in this exercise. Pre-registration for selected courses will be done for the students. Anyhow, students are requested to check their final registered course list during the University Web Registration Period to ensure the courses on list are those they plan to take. Updated elective list is available from the 'Programme Information' section under the 'Student Page' of EE homepage.

Q5: What is the deadline for adding/dropping courses? What is the penalty for late drop?  
It is usually the second Monday of a semester. Students should pay attention to announcements from SGS and the Department. After the ADD/DROP period, students will need to seek Associate Programme Leader's approval with strong justifications.

If you apply for late drop after the end of week 2 and before the end of Week 6 in Semester A/B (Week 3 in summer term), you will be liable for 50% of the tuition fee payable for that semester/term or the minimum tuition fee of two credit units, whichever is higher.

If you apply for late drop in Week 7 and afterwards in Semester A/B (Week 4 or afterwards in summer term), you will be liable for 100% of the tuition fee payable for that semester/term or the minimum tuition fee of two credit units, whichever is higher.

Q6: If I do not wish to take any course in a semester, what should I do?  
If you do not wish to take any courses in any semester, you have to apply for Leave of Absence before the end of Week 2 in a semester/term. Successful applicant is required to pay a Continuation Fee of \$1,500 to maintain an active enrolment status in the University.

Q7: What about if I apply for leave of absence after the end of Week 2?  
If a student applies for Leave of Absence from Week 3 till the end of Week 6<sup>#</sup> in Semester A/B (or the end of Week 3<sup>#</sup> in Summer Term), the student will be liable for 50% of the tuition fee payable for that semester/term, or the minimum tuition for two credit units (for programmes charged on a per credit unit basis), whichever is higher.

If a student applies for Leave of Absence in Week 7<sup>#</sup> and afterwards in Semester A/B (or Week 4<sup>#</sup> and afterwards in Summer Term), the student will be liable for 100% of the tuition fee payable for that semester/term, or the minimum tuition for two credit units (for programmes charged on a per credit unit basis), whichever is higher.

# Sunday is the first day of the week.

Q8: When should I apply for the Continuing Education Fund (applicable to HK residents only)?

- Before the commencement of the course.
- Details can be found in [http://www.ee.cityu.edu.hk/home/programmes\\_MScMIT\\_FinancialAssistance.html#Content](http://www.ee.cityu.edu.hk/home/programmes_MScMIT_FinancialAssistance.html#Content).

Q9: How can I register for courses which are not web-enabled?

Once the students' pre-registration schedules are available in AIMS, usually a week before the Web Registration Period, students can make use of the Add/Drop Form in AIMS to submit their add/drop requests for courses which are not web-enabled to the Department via the EE General Office. Students will automatically be notified by e-mail of successful add/drops.

Q10: How can I apply for Business Management (BM) option?

Students intending to transfer to the BM option should return the application form to EE General Office for further endorsement process as soon as possible, preferably not in the last semester where students will be able to graduate from the parent MScMIT programme. The latest to do so is **no later than week 2** of the aforesaid last semester. Application forms are available from the General Office, or students may download from "Student Page → Programme Information → "Business Management (BM) Option" under the EE web site: <http://www.ee.cityu.edu.hk>." (Login: eestudent, Password: eestudent).

Q11: How can I apply for Industrial Research (IR) option?

Details for transferring to IR option will be advised via email in due course. Please check email regularly for the update. A briefing session of IR option will usually be arranged around the end of Semester A each year.

## STAFF LIST AND SPECIALISM

As at September 2018

**Head of Department****Chair Professor of Electronic Engineering**

Professor Stella W PANG  
 B.Sc. *Brown*, M.Sc., Ph.D. *Princeton*, FIEEE, FAVS,  
 FECS

彭慧芝教授

**Specialism**

Biomedical Sensors and Microsystems,  
 Nanofabrication Technology,  
 Nanoimprint

**Associate Head****Chair Professor of Electronic Engineering**

Professor Kwok Wa LEUNG  
 B.Sc., Ph.D. *CUHK*, FIEEE

梁國華教授

Antenna Theory and Design,  
 Computational Electromagnetics

**University Distinguished Professor, Affiliate**

Professor Way KUO  
 B.S. *National Tsing Hua*, M.S. Ph.D. *Kansas State*,  
 Foreign Member CAE, Member NAE, Member  
 Academia Sinica, FIEEE

郭位教授

Modeling,  
 Evaluating and Estimating Reliability of  
 Electronics/Nuclear Systems

**Chair Professor of Computer Engineering****Dean of College of Science and Engineering**

Professor Hong YAN  
 B.E. *Nanjing UPT*, M.S.E. *Michigan*, Ph.D. *Yale*,  
 FIAPR, FIEEE

嚴洪教授

Bioinformatics,  
 Image Processing,  
 Pattern Recognition

**Chair Professor of Electronic Engineering**

Professor Chi Hou CHAN  
 B.Sc., M.Sc. *Ohio State*, Ph.D. *Illinois*, CEng, FCIE,  
 FIET, FIEEE

陳志豪教授

Computational Electromagnetics,  
 Microwave and Millimeter-Wave  
 Circuits,  
 Antennas,  
 Terahertz Science & Technology

Professor Yan Cheong CHAN  
 B.Sc., M.Sc., Ph.D. *London*, FIEEE

陳忍昌教授

Electronic Product Reliability,  
 Advanced Electronics Packaging and  
 Assemblies,  
 Green Electronics

Professor Guanrong CHEN  
 M.Sc. *Sun Yat-sen*, Ph.D., *Texas A&M*, FIEEE, FTWAS,  
 MAE

陳關榮教授

Nonlinear Systems:  
 Networks, Dynamics and Controls

Professor Jie CHEN  
 B.S. , *Northwestern Polytechnic U*, M.S.E., M.A., Ph.D.  
*UMich*, FIEEE, FAAAS, FIFAC

陳杰教授

Systems and Control,  
 Networked Control and Information  
 Theory,  
 Multi-Agent Systems,  
 Time-Delay Systems,  
 Linear Multivariable Systems,  
 System Identification,  
 Robust Control



Professor Kin Seng CHIANG  
B.Eng., Ph.D. *UNSW*, FOSA, MSPIE, MAOS, MIEEE

鄭建成教授  
Fibre and Integrated Optics,  
Nonlinear Guided-wave Optics,  
Optical Devices and Sensors

Professor Kwai Man LUK  
B.Sc.(Eng), Ph.D. *HKU*, CEng, FEng, FIET, FCIE,  
FIEEE, FHKIE, FEA, Croucher Senior Research Fellow

陸貴文教授  
Antenna Design,  
Microwave and Antenna Measurements,  
Applied Electromagnetics

Professor Edwin Yue Bun PUN  
B.Sc.(Eng) *London*, Ph.D. *Glasgow*, SMIEEE

潘裕斌教授  
Integrated Optics,  
Photonics Technology,  
Micro- and Nano- fabrication,  
Plasmonics,  
Nano Photonics,  
Metasurfaces and Metamaterials

### Chair Professor of Information Engineering

Professor Ping LI  
B.Sc. *NUPT*, M.Sc. *SJTU*, Ph.D. *Glasgow*, FIEEE

李坪教授  
Mobile Communications,  
Wireless Systems,  
Coding and Modulation,  
Information Theory,  
Numerical Methods

Professor Moshe ZUKERMAN  
B.Sc., M.Sc. *Technion*, Ph.D. *UCLA*, FIEEE

Telecommunications Networking,  
Queueing Theory,  
Network Resilience,  
Performance Evaluation

### Emeritus Professor

Professor Po Sheun CHUNG  
B.Sc., M.Sc. *Illinois*, Ph.D. *Camb.*, FEng

鍾寶璇教授  
Optical Communications,  
Optoelectronics

Professor Kai Ning Edward YUNG  
B.Sc., M.Sc., Ph.D. *Mississippi*, FCIE, FHKIE,  
FHKAAS, FIEEE, MEA

容啓寧教授  
Antennas and Microwave Devices,  
RFID

### Honorary Professor

Professor Stephen P BOYD,  
A.B. *Harvard*, Ph.D. *U.C. Berkeley*, FIEEE, FSIAM,  
FINFORMS, Member of the US National Academy of  
Engineering, a Foreign Member of the Chinese  
Academy of Engineering

Convex Optimization Applications in  
Control,  
Signal Processing,  
Machine Learning,  
Finance

Professor Yiu Chung CHENG  
B.Sc. *HKU*, Ph.D. *UBC*, P.G.Dip., M.Sc. *Waterloo*,  
CEng, FHKIE, FIET, FIEEE, CBE, JP, Member of  
Academy of Sciences, China

鄭耀宗教授  
Microelectronics

Professor Toshio FUKUDA  
B.S. *Waseda*, M.S. *Tokyo*, M.S. *Yale*, Ph.D. *Tokyo*,  
FIEEE, FSICE, FJSME, FRSJ, FVRSJ

福田敏男教授  
Intelligent Robotic and Mechatronic  
System,  
Cellular Robotic System,  
Micro- and Nano-robotic System

Professor Evelyn L HU  
B.A. *Barnard College*, M.S., Ph.D. *Columbia*, FAAAS,  
FAPS, FIEEE

Nanophotonics,  
Quantum Devices,  
Nanoelectronics,  
Nanofabrication

Professor Charles KAO CBE, B.Sc., Ph.D. <i>Lond.</i> , D.Sc. <i>CUHK</i> , D.Sc. <i>Sus</i> , D.Eng. <i>Glas</i> , D.Sc. <i>Durh</i> , <i>Duniv. Griff</i> , FRS, FEng, FIET, FIEEE, FHKIE, Member Academy of Engineering, <i>USA</i>	高錕教授	Optical Fiber Communications
Professor Kai Fong LEE B.Sc., M.Sc., <i>Queen's</i> , Ph.D. <i>Cornell</i> , FIEEE, FIET, FEA	李啟方教授	Antenna Theory and Design, Applied Electromagnetics, Plasma Theory
Professor Leung TSANG B.Sc., M.Sc., Ph.D. <i>MIT</i> , FIEEE, FOSA, FEA	曾亮教授	Electromagnetics, Remote Sensing, Wireless Propagation, Optics, Interconnects, Signal Integrity
Professor Ke WU B. Sc.(Eng), Ph.D. <i>Grenoble</i> , FIEEE, FCAE, FRSC, Member of The Sigma Xi Honorary Society, URSI, Electromagnetics Academy, EuMA, MTT-S AdCom	吳柯教授	RF and Microwave Electronics, Millimeter-Wave and Terahertz Circuits and Systems, Microwave Photonics, CAD, Applied Electromagnetics, Wireless Sensor Networks, Wireless Power Transmission
<b>Professor</b>		
Professor Tommy Wai Shing CHOW B.Sc., Ph.D. <i>Sunderland</i> , SMIEEE	周偉誠教授	Intelligence Systems, Machine Learning
Professor Henry Shu Hung CHUNG HD, B.Eng., Ph.D. <i>PolyU (HK)</i> , FIEEE	鍾樹鴻教授	Power Electronics, Lighting Technology, Smart Grid Technologies
Professor Andrew Chi Sing LEUNG B.Sc., M.Phil., Ph.D. <i>CUHK</i> , MIEEE	梁志成教授	Multimedia, Machine Learning, Computer Graphics, Signal Processing
Professor Hing Cheung SO B.Eng. <i>CityU</i> , Ph.D. <i>CUHK</i> , FIEEE	蘇慶祥教授	Signal Processing
Professor Hei WONG B.Sc. <i>CUHK</i> , Ph.D. <i>HKU</i> , SMIEEE	王曦教授	Microelectronics and Photonics, Integration, Microelectronics Devices and Circuits
<b>Associate Professor</b>		
Dr. Stanley Cheung Fat CHAN B.Sc., M.Sc., Ph.D. <i>Essex</i> , MIEEE	陳祥發博士	Speech and Audio Processing, Speech and Audio Coding, Digital Signal Processing
Dr. Sammy Chi Hung CHAN B.Eng., M.Eng.Sc. <i>Melbourne</i> , Ph.D. <i>RMIT</i> , MIEEE	陳志雄博士	High-Speed Networks, Wireless Networks, Network Performance Evaluation
Dr. Andy Hau Ping CHAN M.Sc. <i>Essex</i> , Ph.D. <i>CUHK</i> , MIEEE, MOSA, MSPIE	陳孝平博士	Integrated and Fiber Optics, Photonic Technology and Packaging, Terahertz Device

Dr. Rosa Ho Man CHAN B.Eng. <i>CUHK</i> , M.Sc., Ph.D. <i>USC</i> , SMIEEE	陳皓敏博士	Computational Neuroscience, Neural Prosthesis, Brain-Computer Interface, Bio-Signal Processing
Dr. Leanne L H CHAN B.Eng. (EEE) <i>HKU</i> , M. Sc. (EE), Ph.D. (BME) <i>USC</i> , SMIEEE	陳儷行博士	Neural Engineering, Visual Prosthetics, Visual Electrophysiology ( <i>in vivo</i> ), Stimulating Electrode Array, Computer Vision
Dr. Nelson Sze Chun CHAN B.Eng. (EEE) <i>HKU</i> , M.S.(EE), Ph.D. <i>UCLA</i>	陳仕俊博士	Optical Chaos, Microwave Photonics, Semiconductor Laser Dynamics
Dr. Wing Shing CHAN B.Sc.(Eng) <i>London</i> , Ph.D. <i>CityU (HK)</i> , CEng, MIET, MIEEE, MHKIE	陳永勝博士	High-Power RF and Microwave, Amplifiers, RF and Microwave Engineering
Dr. Lee Ming CHENG B.Sc., Ph.D. <i>London</i> , CEng, CITP, FIET, SMIEEE, FBCS, FHKIE	鄭利明博士	Information Security, Smart Card/RFID, Smart Home Care Systems, Video / Digital Watermark Systems
Dr. Ray Chak Chung CHEUNG B.Eng, M.Phil. <i>CUHK</i> , Ph.D. <i>London</i> , DIC, MIEEE, MACM	張澤松博士	Reconfigurable Trusted Computing, Cryptographic VLSI, Bio-medical VLSI, System-on-Chip Architecture
Dr. Bernard Chi Yuen CHIU B.Sc. <i>Calgary</i> , M.A.Sc. <i>Waterloo</i> , Ph.D. <i>Western Ontario</i>	趙智遠博士	Medical Image Processing and Analysis, Segmentation and Registration
Dr. Yuk Tak CHOW B.Sc. <i>H-W.</i> , M.Sc. <i>St. And.</i> , Ph.D. <i>H-W.</i>	周育德博士	Optoelectronics, Digital Holography
Dr. Lin DAI B.Sc. <i>HUST</i> , Ph.D. <i>Tsinghua</i> , SMIEEE	代琳博士	Mobile Communications, Communication Theory, Communication Networks
Dr. King Tim KO B.Eng., Ph.D. <i>Adel.</i> , SMIEEE	高敬添博士	Performance Evaluation of Communication Networks, Computer Networking
Dr. Ricky Wing Hong LAU B.Sc., Ph.D. <i>Portsmouth</i> , SMIEEE	劉永康博士	Digital Signal Processing, Digital Audio Engineering, Visual Speech Processing, Embedded System
Dr. Joshua En Yuan LEE B.A., M.Eng., M.A., Ph.D., <i>Cantab</i> , SMIEEE	李恩源博士	Microelectromechanical Systems (MEMS) Analysis and Design, MEMS Sensors, MEMS Resonators, Piezoelectric Devices, Piezoelectric Micromachined Ultrasonic Transducers

Dr. Peter Sai Wing LEUNG B.Sc., Ph.D. <i>CityU (London)</i> , CEng, MIET, SMIEEE	梁世榮博士	Electromagnetic Compatibility (EMC), Bio-medical Impacts Electromagnetic Field to Human Cells, EMC Management in Fixed Installations and Railway Systems, Electromagnetic Dosimetry and Human Safety in E-vehicles
Dr. Shu Hung LEUNG B.Sc. <i>CUHK</i> , M.Sc., Ph.D. <i>UC Irvine</i> , MIEEE	梁樹雄博士	Adaptive Signal Processing, Digital and Mobile Communications
Dr. Derek Chi Wai PAO B.Sc.(Eng) <i>HKU</i> , M.Comp.Sc., Ph.D. <i>Concordia</i> , MIEEE	鮑志維博士	Hardware Architectures for Network Processing, Computer Network, Pattern Matching for Intrusion Detection and Virus Scanning
Dr. Lai Man PO B.Sc.(EE), Ph.D. <i>CityU (HK)</i> , SMIEEE	布禮文博士	Image and Video Processing, Mobile Apps Development, Machine Learning
Dr. Albert Chi Wan SUNG B.Eng, M.Phil., Ph.D. <i>CUHK</i> , MIEEE	宋之尹博士	Wireless Communications and Networks, Network Coding, Distributed Storage Systems
Dr. Wallace Kit Sang TANG B.Eng. <i>HKU</i> , M.Sc. Ph.D. <i>CityU (HK)</i> , SMIEEE	鄧櫟生博士	Evolutionary Algorithms, Nonlinear Circuits and Systems, Control Theory, Complex Networks
Dr. Kim Fung TSANG Assoc., <i>HKP</i> , M.Eng., Ph.D. <i>Wales</i> , CEng, FHKIE, SMIEEE, MIET	曾劍鋒博士	Mobile Health, Smart Metering and Building Automation, Wireless Communications, RF ASIC, Microwave/Millimeter Wave Engineering
Dr. Peter Wai Ming TSANG B.Sc., M.Phil., Ph.D., <i>HKU</i> , MOSA., MSPIE, MIEEE	曾偉明博士	Digital Holography, Three Dimensional Video Systems, Image Compression
Dr. Steve Hang WONG B.Eng., M.Phil., Ph.D. <i>CityU (HK)</i> , SMIEEE	黃衡博士	Antennas, Millimeter Wave Technologies, Applied Electromagnetics
Dr. Eric Wing Ming WONG B.Sc., M.Phil., <i>CUHK</i> , Ph.D. <i>UMASS at Amherst</i> , SMIEEE	黃永明博士	Analysis and Design of Telecommunications Networks, Energy-Efficient Data Center Design, Green Cellular Networks, Optical Switching
Dr. Alan Kai Hau YEUNG B.Sc. <i>CUHK</i> , P. G. Dip., M.Sc. <i>CityU (HK)</i> , Ph.D. <i>CUHK</i> , MIEEE, MBCS, CITP, CCNP, CCAI, CEH, ECSA, CPLT	楊啟厚博士	Networking Security and Hacking, Internet Systems, Computer Networks, Data Communication Systems
Dr. Kelvin Shiu Yin YUEN AP, M.Phil. <i>HKP</i> , D. Phil. <i>Sus.</i> , SMIEEE	袁紹賢博士	Evolutionary Computation, Machine Learning, Computer Vision

## Assistant Professor

Dr. Katie Kei Hang CHAN  
B.Eng. (InfoE) *HKU*, M.PH *USC*, Ph.D. *UCLA*

陳紀行博士  
Bioinformatics,  
Computational Biology,  
Big Data Analysis

Dr. Kwok Leung CHAN  
M.Sc., Ph.D. *Wales*, CEng, MIET

陳國良博士  
Image Processing,  
Computer Vision

Dr. Xin GAI  
B.Eng. (OptE) *ZJU*, Ph.D. (Phys) *ANU*

蓋鑫博士  
Mid-infrared Photonics,  
Chalcogenide Glasses,  
Bio-photonics and Medical Imaging,  
On-chip Optical Integration

Mr. Kai Tat NG  
B.Eng. *W. Aust.*, M.Eng.Sc. *Sydney*, MIEEE

吳啟達先生  
Communication Engineering,  
Computer System Engineering

Dr. Cheng WANG  
B.S. *Tsinghua*, S.M., Ph.D. *Harvard*, MOSA

王騁博士  
Nanofabrication Technology,  
Photonic Circuits,  
Optical Communications,  
Nonlinear Optics

Dr. Alex Man Hon WONG  
B.A.Sc., M.A.Sc., Ph.D. *Toronto*, MIEEE

王文瀚博士  
Metamaterials and Metasurfaces,  
Super-resolution,  
Superscillations,  
Antennas,  
Applied Electromagnetics

Dr. Angus Kwok Ming WU  
B.S. E.E., M.Sc. *Ohio State*, Ph.D. *Wash. State*, CEng,  
MIET

胡國明博士  
Intelligent Systems,  
Machine Learning,  
IC Design for AI

Dr. Yixuan YUAN  
B.Eng. *NPU*, Ph.D. *CUHK*

袁奕萱博士  
Deep Learning,  
Medical Image Analysis and Diagnosis,  
Object Detection and Segmentation,  
Object Tracking

## Instructor

Mr. Van Chi Wang TING  
B.Eng., M.Phil. *CityU (HK)*

丁志宏先生  
Image and Video Processing,  
Mobile Application and Game Design,  
Cloud Computing,  
Software Engineering

Week	S	M	T	W	T	F	S	Events	Public Holidays
September, 2018								<b>Semester A 2018/19</b> 3 Sep – 1 Dec Teaching Period	
WK.1	2	3	4	5	6	7	8		
WK.2	9	10	11	12	13	14	15		
WK.3	16	17	18	19	20	21	22		
WK.4	23	24	25	26	27	28	29		
WK.5	30								25 Day following Mid-Autumn Festival
October								2 Graduation Date	1 National Day 17 Chung Yeung Festival
WK.6	1	2	3	4	5	6			
WK.7	7	8	9	10	11	12	13		
WK.8	14	15	16	17	18	19	20		
WK.9	21	22	23	24	25	26	27		
November									
WK.10					1	2	3		
WK.11	4	5	6	7	8	9	10		
WK.12	11	12	13	14	15	16	17		
WK.13	18	19	20	21	22	23	24		
December								1 Last Day of Teaching 3 – 8 Student Revision Period 10 – 22 Examination Period 24 Dec – 12 Jan Semester Break	25 Christmas Day 26 Day following Christmas Day
WK.10	2	3	4	5	6	7	8		
WK.11	9	10	11	12	13	14	15		
WK.12	16	17	18	19	20	21	22		
WK.13	23	24	25	26	27	28	29		
January, 2019								<b>Semester B 2018/19</b> 14 Jan – 27 Apr Teaching Period	1 First day of January
WK.1			1	2	3	4	5		
WK.2	6	7	8	9	10	11	12		
WK.3	13	14	15	16	17	18	19		
WK.4	20	21	22	23	24	25	26		
February								4 – 9 Lunar New Year Break 15 Graduation Date	5 – 7 Lunar New Year Holidays
WK.4					1	2			
WK.5	3	4	5	6	7	8	9		
WK.6	10	11	12	13	14	15	16		
WK.7	17	18	19	20	21	22	23		
March									
WK.7						1	2		
WK.8	3	4	5	6	7	8	9		
WK.9	10	11	12	13	14	15	16		
WK.10	17	18	19	20	21	22	23		
WK.11	24	25	26	27	28	29	30		
April								19 – 25 Easter Break 27 Last Day of Teaching 29 Apr – 4 May Student Revision Period	5 Ching Ming Festival 19 Good Friday 20 Day following Good Friday 22 Easter Monday
WK.12		1	2	3	4	5	6		
WK.13	7	8	9	10	11	12	13		
WK.14	14	15	16	17	18	19	20		
WK.15	21	22	23	24	25	26	27		
May								6 – 20 Examination Period 21 May – 8 Jun Semester Break	1 Labour Day 13 Day following Buddha's Birthday
WK.16				1	2	3	4		
WK.17	5	6	7	8	9	10	11		
WK.18	12	13	14	15	16	17	18		
WK.19	19	20	21	22	23	24	25		
WK.20	26	27	28	29	30	31			

Week	S	M	T	W	T	F	S	Events	Public Holidays
<b>June, 2019</b>									
							1		
	2	3	4	5	6	7	8	<b>Summer Term 2019</b>	7 Tuen Ng Festival
WK.1	9	10	11	12	13	14	15	10 Jun – 27 Jul Teaching Period	
WK.2	16	17	18	19	20	21	22		
WK.3	23	24	25	26	27	28	29		
WK.4	30								
<b>July</b>									
		1	2	3	4	5	6		1 HK SAR Establishment Day
WK.5	7	8	9	10	11	12	13		
WK.6	14	15	16	17	18	19	20	15 Graduation Date	
WK.7	21	22	23	24	25	26	27	27 Last Day of Teaching	
	28	29	30	31				29 Jul – 3 Aug Student Revision Period	
<b>August</b>									
					1	2	3		
	4	5	6	7	8	9	10	5 – 10 Examination Period	
	11	12	13	14	15	16	17	12 – 31 Term Break	
	18	19	20	21	22	23	24		
	25	26	27	28	29	30	31		

Note :  represents public holidays including all Sundays

### Provisional Academic Calendar 2019/20

	<u>Start Date</u>	<u>End Date</u>
<b>Semester A</b>		
Teaching Period	2 September 2019	30 November 2019
Student Revision Period	2 December 2019	7 December 2019
Examination Period	9 December 2019	21 December 2019
Semester Break	23 December 2019	11 January 2020
<b>Semester B</b>		
Teaching Period	13 January 2020 (Lunar New Year holidays: 25 - 28 January 2020)	25 April 2020
Student Revision Period	27 April 2020	2 May 2020
Examination Period	4 May 2020	16 May 2020
Semester Break	18 May 2020	6 June 2020
<b>Summer Term</b>		
Teaching Period	8 June 2020	25 July 2020
Student Revision Period	27 July 2020	1 August 2020
Examination Period	3 August 2020	8 August 2020
Term Break	10 August 2020	29 August 2020

### Provisional Academic Calendar 2020/21

	<u>Start Date</u>	<u>End Date</u>
<b>Semester A</b>		
Teaching Period	31 August 2020	28 November 2020
Student Revision Period	30 November 2020	5 December 2020
Examination Period	7 December 2020	19 December 2020
Semester Break	21 December 2020	9 January 2021
<b>Semester B</b>		
Teaching Period	11 January 2021 (Lunar New Year holidays: 12 – 15 February 2021)	24 April 2021
Student Revision Period	26 April 2021	1 May 2021
Examination Period	3 May 2021	15 May 2021
Semester Break	17 May 2021	5 June 2021
<b>Summer Term</b>		
Teaching Period	7 June 2021	24 July 2021
Student Revision Period	26 July 2021	31 July 2021
Examination Period	2 August 2021	7 August 2021
Term Break	9 August 2021	28 August 2021

**Department of Electronic Engineering**  
**Locations of Laboratories**

Teaching Laboratory	
Room no.	Laboratory Name
AC3 15-231	Applied Electromagnetics Laboratory
P1622	Competition Teams Laboratory
P1806	Computer Networking Laboratory
P1406, P1412, P1442	Computer Terminal Laboratory
P1404	Control Systems Laboratory
P1808	Data Communications Laboratory
AC2 6508	Digital and Mobile Communications Laboratory
P1800	Digital Systems Laboratory
P1809	Electronic Circuit and Projects Laboratory
P1410	Machining Laboratory
P1402	Multidisciplinary Projects Laboratory
P1602	PCB Fabrication Laboratory
P1615	Team Projects Laboratory
<b>Research Laboratory</b>	
Room no.	Laboratory Name
AC3 15-231	Applied Electromagnetics Laboratory
P1816	Biosystems, Neuroscience, and Nanotechnology Laboratory
P1806	Computer Networking Laboratory
P1404	Control Systems Laboratory
P1808	Data Communications Laboratory
P1610	Optoelectronics, Electronics, Nanotechnology and Biosystems Laboratory
P1628	Power Electronics & Intelligent Systems Laboratory
P1618	Signal Processing and Biocomputing Laboratory
AC3 15-200	State Key Laboratory of Millimeter-Waves





## **Glossary**

<b>Academic Year/Semester/Term</b>	The academic year is a period of twelve months starting normally in September of each year. The academic year is divided into two Semesters and a Summer Term.
<b>Assessment</b>	The tests, coursework, examinations and other activities used to assess students' progress through courses and to assign final grades.
<b>Course</b>	The basic units of instruction into which students are registered and for which grades may be assigned. Each course is identified by a unique course code which is composed of a letter code and a numeric code. The first digit of the numeric code indicates the course's level of academic difficulty. University courses are approved for inclusion in the course catalogue.
<b>Course Leader</b>	A Course Leader is appointed by the Head or Dean of an academic unit for each course offered by the academic unit with responsibility for the delivery and assessment of the course.
<b>Credit Transfer</b>	The assignment of credit units toward the credit unit requirements of a programme on the basis of work done outside that programme. Credit units for transfer are normally assigned based on specific courses that are equivalent in content and standard.
<b>Credit Unit</b>	Each course is assigned a number of credit units. A credit unit is earned by approximately forty-to-fifty hours of student work.
<b>Enrolment</b>	The completion of specified procedures to attain student status at the University.
<b>Equivalent Course</b>	Equivalent courses are those where there is sufficient overlap in content that students may, with approval, register in to meet a programme requirement, to recover a failure or to improve a course grade.
<b>Exclusive Course</b>	Exclusive courses are those where there is sufficient overlap in their content to make it inappropriate for students to earn credit units for more than one of the courses. Students will be

restricted from registration in a course when they have earned credit units for an exclusive course.

<b>Prerequisite</b>	A requirement that must be fulfilled before a student can register in a particular course. <b>Precursors</b> are set for some courses. Precursors are not compulsory requirements, but students are advised to complete precursors before registering in these courses.
<b>Programme</b>	The structured academic programme leading to a named award of the University into which students are enrolled.
<b>Registration</b>	The inclusion of a student in the class list of a course.
<b>Senate</b>	The University Senate of City University of Hong Kong.
<b>Taught Postgraduate</b>	A student enrolled for a Postgraduate Certificate, Postgraduate Diploma, or Master's Degree.
<b>University</b>	City University of Hong Kong