

## Master of Science (MSc) Program in Telecommunications

### Program Director:

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(Professor of Electronic and Computer Engineering)

Due to the rapid introduction and proliferation of telecommunication technologies such as Dense Wavelength Division Multiplexing (DWDM) Networks, wireless Local Area Network (WLAN), 3G systems, broadband multimedia communication, etc, there is a need for the telecommunication practitioners, technologists and managers to update themselves. The objective of the program is to provide students with a comprehensive and up-to-date knowledge on the latest topics in telecommunications.

The MSc program in Telecommunications is a degree program designed for people with a bachelor's degree in Science or Engineering who are interested in acquiring in-depth knowledge in telecommunications.

### Admission Requirements

Applicants must hold a bachelor's degree in Electronic Engineering, or Engineering or Physical Sciences or an equivalent qualification from a university or tertiary institution.

### Program Fee

The program fee is \$80,000. There is no reduction in tuition fee for students who transfer credits into the program.

### Curriculum

The program comprises a total of 30 course credits which can normally be completed in one year in full-time mode or two years in part-time mode. All lectures will be given at HKUST, or suitable venues in Hong Kong and/or Mainland China. Classes will be held in the evenings and/or weekends.

Students are required to take 24 credits of EESM courses from the following course list and complete 6 credits of MSc Project:

EESM 515	IP Networks	[3-0-0:3]
EESM 520	Telecommunication Regulations, Markets, and Services	[3-0-0:3]
EESM 536	Digital Communications	[3-0-0:3]
EESM 539	Wireless Communication Networks	[3-0-0:3]
EESM 540	Introduction to Telecommunication Networks	[3-0-0:3]
EESM 546	Wireless Communication Systems	[3-0-0:3]
EESM 547	Multimedia Signal Processing	[3-0-0:3]
EESM 600*	Special Topics	[3-0-0:3]
EESM 691	Topics in Telecommunications and Network Convergence	[3-0-0:3]
EESM 698	MSc Project	6 credits <sup>#</sup>

\* Students may take EESM 600 for a maximum of 3 credits.

<sup>#</sup> Each MSc Project carries 1-3 credit(s). Students are required to repeat this course to obtain 6 credits for graduation.

Subject to the approval of the Program Director, students who had previously taken courses similar to those listed in the program curriculum may take a maximum of 6 credits of courses offered by the MSc Program in Electronic Engineering and the MSc Program in IC Design Engineering to fulfill the graduation requirement. Credit transfer may be granted to students in recognition of studies completed successfully elsewhere. Upon the approval of the Program Director, a maximum of 9 credits can be transferred to the program. For regulations governing credit transfer for postgraduate programs, please refer to Section 31 of the Postgraduate Regulations in this Calendar.

### Course Assessment and Graduation Requirements

Regular attendance of courses is expected. Courses will be assessed according to the grading scheme used for postgraduate courses. Students in the program must complete the program with a graduation grade average (GGA) of B grade or above as required for all postgraduate students in HKUST. If a student fails to meet the graduation grade average requirement, he/she is required to repeat or substitute the course(s).