

Master of Science (MSc) Program in Telecommunications

Program Director:

Danny H. K. TSANG, Professor of Electronic and Computer Engineering

Due to the rapid introduction and proliferation of telecommunication technologies such as 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 this program is to provide students with a comprehensive and up-to-date knowledge on the latest topics in telecommunications.

The Master of Science (MSc) program in Telecommunications is 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 possess a bachelor's degree in Electronic Engineering / Engineering / Physical Sciences, or an equivalent qualification from a recognized university or tertiary institution.

Program Duration

The program can normally be completed in one year in full-time mode, or two years in part-time mode. All lectures will be delivered at HKUST, or suitable venues in Hong Kong and/or Mainland China. Classes will be held on weekday evenings and/or weekends.

Program Fee

The program fee is \$110,000. New students admitted with credit transfer are also required to pay the full program fee. Students who take additional courses or need to retake any courses are required to pay additional fee.

Curriculum

The program comprises a total of 30 credits of coursework. Students are required to take 24 credits from the following course list, and complete 6 credits of MSc Project:

EESM 5515	IP Networks
EESM 5520	Telecommunication Regulations, Markets, and Services
EESM 5536	Digital Communications
EESM 5539	Wireless Communication Networks
EESM 5540	Introduction to Telecommunication Networks
EESM 5546	Wireless Communication Systems
EESM 5547	Multimedia Signal Processing
EESM 5550	Online Social Networks

EESM 5810	High-Tech Innovation and Entrepreneurship
EESM 5900*	Special Topics
EESM 5910	Topics in Telecommunications and Network Convergence
EESM 6980#	MSc Project

Alternatively, subject to prior approval of the Program Director, students may take a maximum of 9 credits from outside this list offered by other programs. These 9 credits may include:

- EESM courses not in the above list, and
- A maximum of 3 credits of non-EESM courses.

The availability of courses offered by other programs may be subject to quota limitations imposed by individual programs.

Part-time students may take a maximum of 9 credits in each term.

Credit Transfer

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, subject to University regulations governing credit transfer for postgraduate programs.

Graduation Requirements

Students in the program must complete the program with a graduation grade average (GGA) of 2.850 or above as required of all postgraduate students at the University. Students failing to meet the GGA requirement are required to repeat or take additional course(s) even if they attain passing grades for all courses.

* Students may take EESM 5900 for a maximum of 6 credits.

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