Entrance Requirements

- A recognized Bachelor's degree in engineering, science, technology, or the equivalent;
- English language requirement of the University

Please visit www.polyu.edu.hk/study for details.

Entry Scholarships

- Two Faculty Scholarships (Tuition fees HK$159,000 + HK$50,000 for full-time student);
- Three Department Scholarships (HK$30,000)

(More details: https://polyu.hk/xsaSV)

20201113

Enquiry and Application

Programme leader: Dr. Yang Xu
Tel: (852) 2766 5958
Fax: (852) 2330 2994
Email: yang.ls.xu@polyu.edu.hk

Application Period:

Till April 2021

PolyU Online Application:

https://www38.polyu.edu.hk/eAdmission/index.jsf

Programme Website:

https://polyu.hk/WDQGd

LSGI Wechat: PolyU-LSGI
LSGI Facebook: LSGI.PolyU

THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

DEPARTMENT OF LAND SURVEYING AND GEO-INFORMATICS
土地測量及地理資訊學系

Admission to

Master of Science in Urban Informatics and Smart Cities

for the Academic Year

2021-22

Department of Land Surveying and Geo-Informatics (LSGI) at the Hong Kong Polytechnic University is a leading department of geomatics in research output in the world, and the only academic department in Hong Kong that offers a range of education, training and research opportunities in the fields of surveying, geographic information science (GIS), and urban informatics. A number of LSGI's academic staff members are leading researchers in their respective research fields and have received international and national awards for their research contributions, such as

- Schwidefsky Medal (2004), Gino Cassinis Award (2008), Wang Zhizhuo Award (2012), International Society for Photogrammetry and Remote Sensing (ISPRS);
- State Natural Science Award (Second-class) (2004, 2007), Central Government of China;
- Gold Medal and R. Alekseev Award (2016), The 44th International Exhibition of Inventions of Geneva;
- ESRI Award for Best Scientific Paper in GIS (2006), John I. Davidson President's Award (2014), Talbert Abrams Award (2016), American Society for Photogrammetry and Remote Sensing (ASPRS).

Staff members of LSGI are actively involved in activities of international scientific societies, e.g.

- Vice President (2007-2011), International Cartographic Association;
- Technical Commission II President (2008-2012), International Society of Photogrammetry and Remote Sensing;
- President, Hong Kong Geographic Information System Association;
- Chair of Land Survey Division, The Hong Kong Institute of Surveyors;
- Editor, ISPRS Book Series;
- Editor, Journal of Spatial Science;
- Associate Editor, Photogrammetric Engineering & Remote Sensing, The Cartographic Journal, etc.

Programme Outline

- Duration: 1-2 years Full-time; 2.5-5 years Part-time
- Medium of instruction: English
- Students complete 7 subjects and a dissertation (or 8 subjects and a project) for graduation
- Upon attainment of required credits, student must successfully defend his/her thesis for the award of MSc in Urban Informatics and Smart Cities

Core Subjects (*compulsory)

- Smart Cities: Technologies and Solutions*
- Urban Science and Systems*
- Urban Informatics*
- Urban Big Data
- Principles of GIS
- Urban Planning and Urban Design

Elective Subjects

- Artificial Intelligence Concepts
- Internet of Things – Tools and Applications
- Economics for Financial Analysis
- Engineering Intelligent Buildings
- Sustainable Development and Environment Planning
- Smart Infrastructure
- Smart Transport
- Smart Tourism: Concepts & Applications
- Spatial Data Acquisition
- Satellite Positioning and Navigation
- Remote Sensing Image Processing

The subjects above are subject to review and changes from time to time.

Career Prospects

Smart city is a fast-growing area around the globe. By leveraging emerging technologies such as Internet of Things, Artificial Intelligence, and Big Data, the programme with an interdisciplinary nature aims to nurture a workforce with the technological know-how for smart and sustainable urban development. Graduates will benefit from various employment opportunities in both public sectors and private companies. The employment opportunities come from a broad range of areas about smart city management including but not limited to telecommunication, information technology, urban planning, transportation and logistics, public health, social welfare, finance and real estate.

Besides, graduates also have great opportunities to pursue further study for doctoral degree locally or internationally.

Professional Recognition

Accreditation of this new programme by professional institutions is in progress.