



Enquiry and Application

M.Sc. (Geomatics) programme leader: Dr. Xintao LIU
Tel: (852) 2766 5962 Email: xintao.liu@polyu.edu.hk
Fax: (852) 2330 2994

Application Period:

Till April 2021

PolyU Online Application:

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



M.Sc. (Geomatics) Programme URL:

<https://polyu.hk/PaOmr>



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

Admission to

Master of Science in Geomatics (GIS/Surveying)

for the Academic Year
2021-22

Entrance Requirements

- A relevant Bachelor (Hons) degree in GIS, Surveying or other related disciplines (e.g. engineering, science or technology, geography)
- 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>)



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

- Schwedefsky 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 M.Sc. in Geomatics

Core GIS and Surveying Subjects

- Principles of GIS
- Advanced GIS
- Spatial Data Analysis and Mining
- Spatial Data Acquisition
- Spatial Data Visualization and Modeling
- Remote Sensing Image Processing
- Advanced Surveying
- Satellite Positioning and Navigation
- Advanced Photogrammetry and Computer Vision
- Urban Informatics

Elective Subjects

- Mobile GIS and Location-Based Services
- Urban Science & Systems
- Advanced Topics in Geomatics
- Building Information Modeling (BIM)
- Subjects Related to Project Management, Environmental Studies, Civil Engineering, Real Estate and Construction Technologies



Professional Recognitions

The M.Sc. programme is accredited by

- The Hong Kong Institute of Surveyors (HKIS)
- The Royal Institution of Chartered Surveyors (RICS)
- The Chartered Institution of Civil Engineering Surveyors (ICES)
- The Hong Kong Institution of Engineering Surveyors (HKIES)



RICS®



Career Prospects

The application of GIS and surveying technology in Hong Kong and many other countries has increased rapidly in the last two decades. Currently, a large number of government departments in Hong Kong used GIS and surveying technology, e.g., the Lands Department, Planning Department, Highways Department, Transport Department, Fire Services Department, Civil Engineering and Development Department, etc.

In the private sector, utilities such as gas and power companies have been frequent users. In recent years, telecommunications, planning, public administration, transportation, logistics, car navigation, civil engineering, archaeology and real estate companies have also adopted GIS in their operations. As such, new career opportunities arise for graduates from these postgraduate programmes.

A rather high percentage of the graduates continue their academic career with a doctoral study at Hong Kong or international universities.