測繪及地理資訊學
理學碩士學位 / 深造文憑（地理資訊 / 測量）

FACULTY OF CONSTRUCTION AND LAND USE 建設及地政學院

課程主任
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課程目標
本課程專為地理資訊系統 (GIS)、測量學或相關範疇的專業人士而設，為學生提供專門從事GIS或地政及び工程測量所需的理論知識及實用技巧。

課程架構

此課程提供兩項專業 (地理資訊 / 測量) 供學生選擇。學生須於申請入學時決定其專業課程。學生可從一系列由建設及地政碩士組合課程提供的科目中選科，每位學生一般要求學生在第一年14個的學期內每星期上一課，課堂在傍晚舉行。

理學碩士學位課程
學生必須完成7科，其中最少4科為核心科目，及一篇有關地理資訊系統 (GIS) 或測量學的專題論文。不選擇寫論文的學生可選修測繪及地理資訊學研究及一科核心科目代替。該核心科目可以是關於GIS或測量學，視乎學生所屬分組而定。

深造文憑課程
學生必須完成7科，其中最少4科為核心科目。

課程簡介

此為課程摘要。學生在註冊前請獲發可選修科目的詳細資料。

地理資訊系統 (GIS) 專業
• 地理信息系統工程學
• 空間數據可視化與模擬

測量學專業
• 衛星定位及導航
• 高級工程測量學

GIS及測量學均可選修的科目
• 地理信息系統的原理
• 空間數據獲取
• 空間數據分析及挖掘
• 遙感圖象處理
• 項目研究
• 碩士論文

上述專業的核心科目可能會被修訂。
如欲索取有關科目的詳情，可瀏覽www.lsgi.polyu.edu.hk/academicprogrammes.asp。

專業認可資格
本地理學碩士課程已獲(英國)土木工程測量師學會 (ICES) 及英國皇家特許測量師學會 (RICS) 認可。

入學資格
• 持有工程、科學或科技榮譽學士學位；或
• 持有相關榮譽學士學位 (如地理榮譽文學士學位)；或
• 持有認可專業資格，及有關測量或地理資訊的工作經驗。
MSc/PgDip in Geomatics
(Geographic Information Systems / Surveying)

Programme Leader
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Programme Aims
Designed for professionals in geographic information systems (GIS), surveying or related fields, this programme equips students with the theoretical understanding and practical skills that are required to specialise in GIS or land and engineering surveying.

Medium of Instruction
English

Normal Duration
1 year (Full-time),
2.5 years (Part-time)

Credits Required for Graduation
30 for MSc, 21 for PgD

Programme Structure
This programme offers two specialisms (GIS/ Surveying). Students must indicate their chosen specialism in their applications. Students can select from a wide range of subjects that are offered under the Postgraduate Scheme in Construction and Land Use, each generally requiring one evening class a week over a 14-week semester.

For the MSc
Students must complete 7 subjects, with at least 4 Core Subjects, and a Dissertation that is pertinent to geographic information systems (GIS) or surveying. The Dissertation is optional. Alternatively, you can choose the Geomatics Project and one more Core Subject, in GIS or surveying depending on your stream.

For the PgD
Students must complete 7 subjects, with at least 4 Core Subjects.

Core Areas of Study
This is a brief summary of the core areas of study. Students are provided with detailed information on the subjects for selection upon registration.

Geographic Information Systems (GIS) Specialism
• Geographic Information Systems Engineering
• Spatial Data Visualisation & Modelling

Surveying Specialism
• Satellite Positioning & Navigation
• Advanced Studies in Engineering Surveying

Both GIS and Surveying Specialisms
• Principles of Geographic Information Systems
• Spatial Data Acquisition
• Spatial Data Analysis & Mining
• Remote Sensing Image Processing
• Project
• Dissertation

The Core Subjects of the above specialisms are subject to revision.
Information on the subjects offered can be obtained at www.legi.polyu.edu.hk/academicprogrammes.asp.

Professional Recognition
The MSc programme has been accredited by the Institution of Civil Engineering Surveyors (ICES) and the Royal Institution of Chartered Surveyors (RICS).

Entrance Requirements
• A Bachelor’s degree with Honours in engineering, science or technology; OR
• A Bachelor’s degree with Honours in other relevant disciplines (such as a Bachelor of Arts (Honours) in geography)^; OR
• A professional qualification plus relevant work experience related to surveying or geographic information systems (GIS)^.

Holders of the qualifications marked with ^ may be invited to attend interviews to assess their suitability for study.

Application Procedures
Prospective applicants can obtain application materials and submit applications via the Study@PolyU website at www.polyu.edu.hk/apply
Enquiries: Telephone: (852) 2766 5029 Fax: (852) 2302 2574 Email: rgsu@polyu.edu.hk
Website: http://www.polyu.edu.hk/fo/grad/scheme/
In the event of discrepancy between the English and Chinese versions of this leaflet, the English version shall prevail.