

About Us

Geomatics Engineering is an academic discipline that concerns on acquisition, analysis, and interpretation of mainly geospatial data, relating to the Earth, its physical features and the built environment. It comprises tools and techniques of measuring, managing, presenting and analyzing geospatial data from diverse sources with well-defined characteristics on accuracy and continuity; and in the form of digital format. Geospatial data are obtained from a wide range of technologically advanced tools like total station, Global Positioning System (GPS) / Global Navigation Satellite System (GNSS) equipment, digital aerial imagery (form both satellite and airborne), Terrestrial Laser Scanner (TLS), Unmanned Aerial Vehicle (UAV), echo sounder and Ground Penetrating Radar (GPR). These data are processed and manipulated by using a computer and the latest software. Also included in the area of geospatial are computer-based Geographic Information Systems (GIS) and remote sensing for monitoring the environment.

Get in Touch



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Faculty of Built Environment & Surveying
Universiti Teknologi Malaysia, Johor



GEOMATICS ENGINEERING Programme



Faculty of Built Environment & Surveying

Our Program

Bachelor of Geomatics Engineering with Honours is one of the oldest programme in UTM. It was first introduced in the early 1970s. Prior to 1994, the programme was known as Bachelor of Surveying (Land). This bachelor programme strives to deliver a quality educational experience via emerging geomatics technologies towards providing a significant contribution to the needs of the surveying and Geomatics Engineering profession nationwide.



Accreditation
 Professional Accreditation by
Licensed Land Surveyors Board and
 Recognised by Malaysia
**Qualifications Agency & Public
 Services Department of Malaysia**



High Graduate Employability



Career Prospect



Bachelor of Geomatics Engineering with Honours

Entry Requirement

STPM	MATRICULATON/ ASASI	DIPLOMA	A LEVEL/ IB/AUSMAT
Minimum CGPA 2.7 in STPM	Minimum CGPA 2.7 in Matriculation/ ASASI	Minimum CGPA of 2.70 in ONE (1) of the following discipline: • Diploma in Land Survey • Diploma in UTM Geomatics • Diploma in IPT/Equivalent *Candidate with CGPA less than 2.70 but with at least 2 years working experience in related field are eligible to apply.	GCE A Level with minimum Gred C OR International Baccalaureate Diploma (IB) with minimum Gred 4 in subject HL OR Australian Matriculation Program (AUSMAT) with minimum Gred C / 60% ATAR Rank of any TWO (2) subjects as follow; • Mathematics • Physics • Chemistry • Computing
Minimum Gred B- (2.67) of any TWO (2) subjects in STPM as follow; • Mathematics T • Mathematics M • Further Mathematics • Physics • Chemistry • Biology • Information and Communications Technology	Minimum Gred B- (2.67) of any TWO (2) subjects in Matriculation/ASASI as follow; • Mathematics • Physics • Engineering Physics • Chemistry • Engineering Chemistry • Computer Science • Computing • Basic Engineering	Minimum Gred C of any ONE (1) subject Mathematics in Diploma OR Minimum Gred C in Mathematics SPM	Minimum Gred C in Mathematics SPM for Malaysian
MUET: Minimum Band 2	MUET: Minimum Band 2	MUET: Minimum Band 2	MUET: Minimum Band 2/ IELTS: Minimum Band 5.5/ TOEFL: Minimum score 500/ TOEFL IBT: Minimum score 46

Courses Offered

UPU CODE: **UT6581004**

1. Geodesy
2. Astronomy & Falak Syar'ie
3. Satellite Positioning & Navigation
4. Cadastral Survey & Land Administration
5. Hydrography & Oceanography
6. Engineering Survey & Mapping
7. Remote Sensing
8. Least Square Adjustment
9. Marine Cadastre
10. Photogrammetry & Aerial Mapping
11. Underground Utility Survey
12. Map Projection
13. Terrestrial Laser Scanning
14. Geographic Information Systems

<https://builtsurvey.utm.my/academic/bachelor-of-geomatics-engineering/>