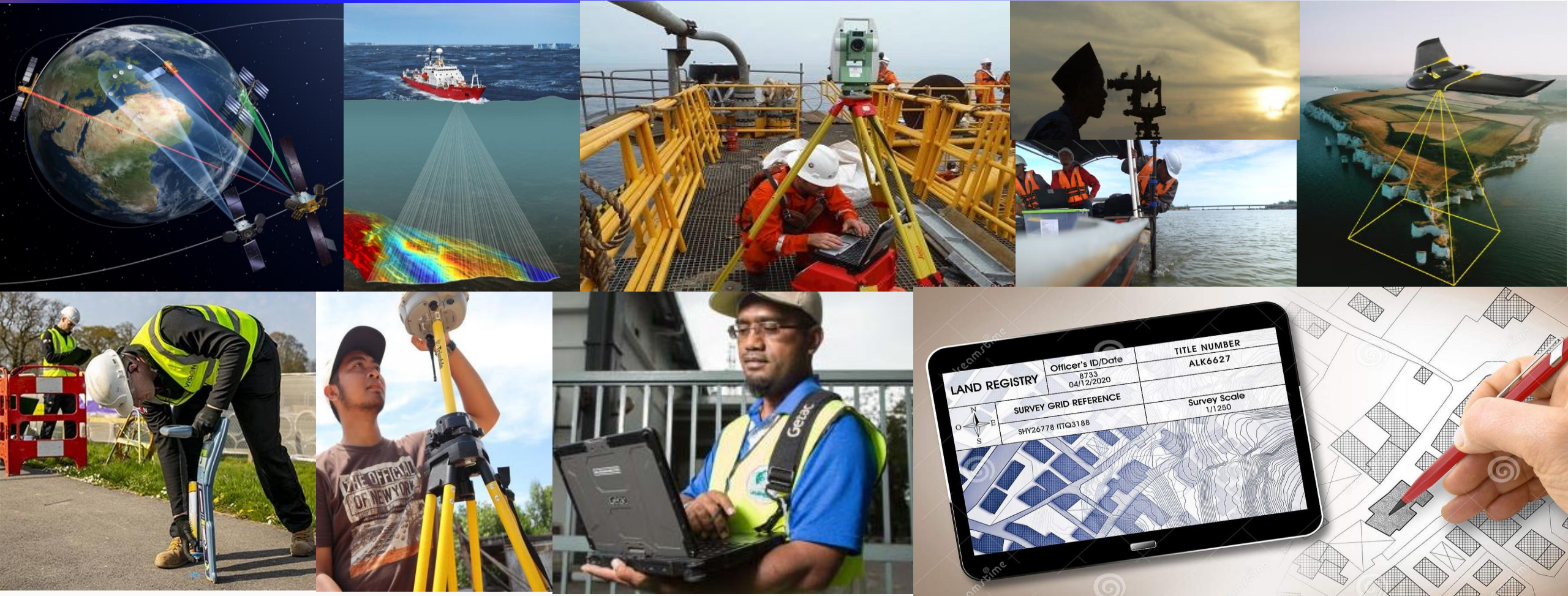
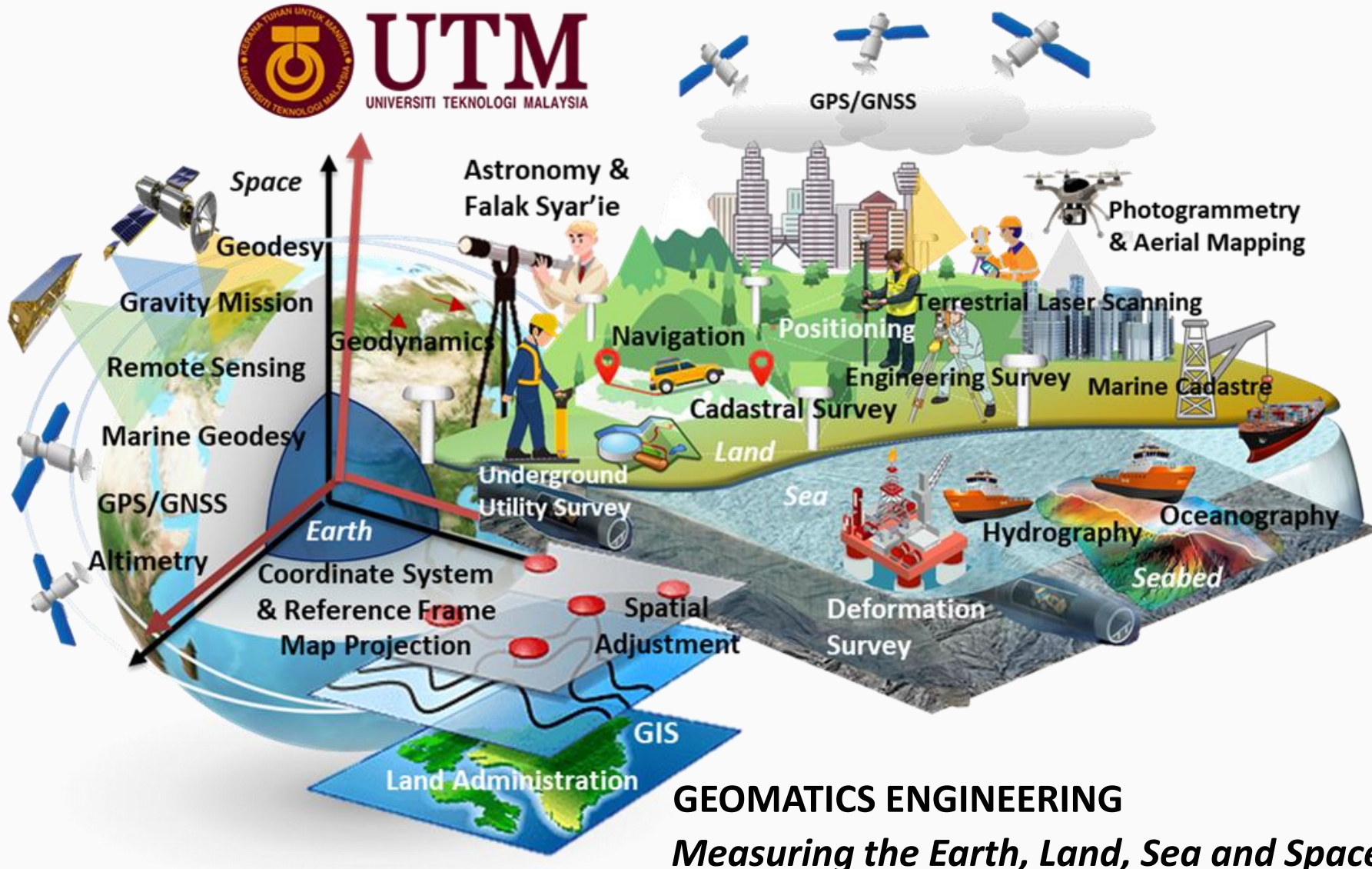


BACHELOR OF GEOMATICS ENGINEERING WITH HONOURS



Contact: Dr. Wan Anom Wan Aris (wananom@utm.my)

Programme Coordinator Bachelor of Geomatics Engineering With Honours
Faculty of Built Environment and Surveying



Geomatics Engineering is defined in the ISO/TC 211 series of standards as the 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 analysing geospatial data** from diverse sources with well-defined characteristics on accuracy and continuity; and in the form of digital format.



MBOT has recognized 23 Technology and Technical Fields including **Survey and Geomatics Technology**.



**Resource Based,
Survey and
Geomatics
Technology (RB)**

<https://www.mbot.org.my/technology-fields/what-is-mbot%E2%80%99s-recognized-technology-fields/>

innovative • entrepreneurial • global

KOD PENDIDIKAN NASIONAL 2020 (NEC-2020)



Diterbitkan oleh:

Bahagian Perancangan dan Penyelidikan Dasar
Kementerian Pengajian Tinggi
No.2, Menara 2
Jalan P5/6, Presint 5, 62200 Putrajaya, Malaysia

Tel: 603-8000 8000 (MyGCC)
Faks: 603-8000 8000 (MyGCC)
Laman web : www.mohe.gov.my

0734 Kaji ukur

Kaji ukur adalah bidang pengajian mengenai pemeriksaan dan pelaporan keadaan bangunan, tanah, kos pembangunan dan kontrak.

Program pengajian dan kelayakan dengan kandungan utama berikut adalah dikelaskan di bawah bidang ini:

Kandungan

Ukur bangunan
Geomatik ✓
Ukur tanah ✓
Ukur bahan
Penilaian dan pengurusan hartanah

NEC-2020 code: 0734-Surveying

0532 Sains kaji bumi

Sains kaji bumi adalah bidang pengajian mengenai komposisi dan struktur bumi termasuk hidrosfera dan atmosfera.

Program pengajian dan kelayakan dengan kandungan utama berikut adalah dikelaskan di bawah bidang ini:

Kandungan

Geologiunaan
Geofizikunaan
Klimatologi
Geosains
Geologi ekonomi
Geologi persekitaran
Geologi kejuruteraan
Geokimia
Geokronologi ✓
Geodesi ✓
Geografi (fizikal)

NEC-2020 code: 0532 - Earth Sciences

BACHELOR OF GEOMATICS ENGINEERING WITH HONOURS

Bachelor of Geomatics Engineering with Honours is one of the oldest programmes in UTM. It was first introduced in the early 1970s. Prior to 1994, the programme was known as **Bachelor of Surveying (Land)**.

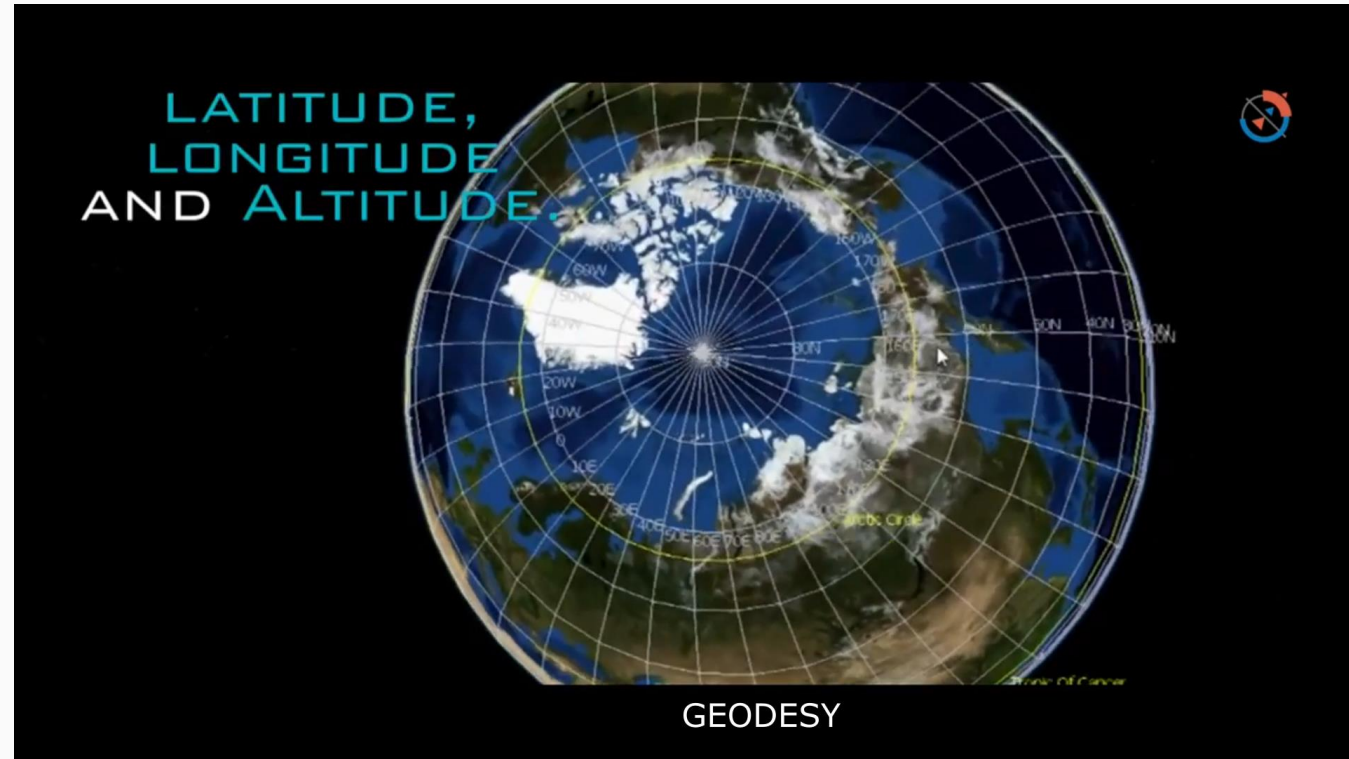


Core & Elective Subjects in BACHELOR OF GEOMATICS ENGINEERING WITH HONOURS

innovative • entrepreneurial • global

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 (GIS)



A Quality Educational Experience

This bachelor program strives to deliver a quality educational experience via emerging geomatics technologies towards providing a significant contribution to the needs of the surveying and engineering profession nationwide.

The programme's goal is to produce graduate that is knowledgeable, expert and skillful in the field of geomatics engineering as well as capable of managing, administrating and updating geospatial data professionally.



BACHELOR OF GEOMATICS ENGINEERING WITH HONOURS



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



JABATAN PERKHIDMATAN AWAM



ASTRONOMER



GEODESIST



LICENSED
LAND SURVEYOR



GEOSPATIALIST
(Government &
Private Firm)

CAREER PROSPECTS GEOMATICS ENGINEERING



GOVERNMENT
LAND SURVEYOR



ACADEMICIAN



GEOMATICS ENGINEER

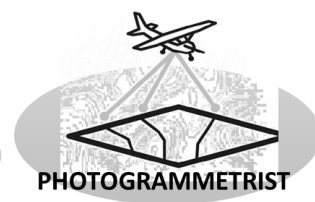
(Oil, Gas & Mineral Exploration,
Construction, Energy & Utilities, Land-Use
Planning, 3D imaging, Positioning
Technologies)



HYDROGRAPHER



RESEARCHER



PHOTOGRAMMETRIST



High Graduate Employability

Tahniah



Program Sarjana Muda Kejuruteraan Geomatik

penerima

Anugerah Kebolehpasaran Graduan UTM

Kategori Sains Sosial - Prasiswazah

Ikhlas dari Pengurusan, Staf dan Pelajar FABU



www.utm.my



www.utm.my



[utm_my](https://twitter.com/utm_my)



[utmofficial](https://www.instagram.com/utmofficial)

Government agencies and local authorities that continuously
require this profession



Jabatan Tanah Dan Ukur Sabah
Sabah Lands And Surveys Department



**TENAGA
NASIONAL**

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: <ul style="list-style-type: none"> • Diploma in Land Survey • Diploma in UTM Geomatics • Diploma in IPT/Equivalent 	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;
Minimum Gred B- (2.67) of any TWO (2) subjects in STPM as follow; <ul style="list-style-type: none"> • Mathematics T • Mathematics M • Physics • Chemistry • Biology • Information and Communications Technology 	Minimum Gred B- (2.67) of any TWO (2) subjects in Matriculation/ASASI as follow; <ul style="list-style-type: none"> • Mathematics • Physics • Engineering Physics • Chemistry • Engineering Chemistry • Computer Science • Computing • Basic Engineering 	*Candidate with CGPA less than 2.70 but with at least 2 years working experience in related field are eligible to apply.	<ul style="list-style-type: none"> • Mathematics • Physics • Chemistry • Computing
Minimum Gred C in Mathematics SPM	Minimum Gred C in Mathematics SPM	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

CARIAN BERDASARKAN

Pilihan Carian▼

IPTA

Bidang

Temu Duga

Keseluruhan

Keseluruhan Ikut Aliran

54 program pengajian yang ditawarkan

IPTA

UT-UTM

KATEGORI

Kategori Matrikulasi/Asasi

ALIRAN

Kejuruteraan

Temu Duga (Bukan

: Tidak ▼

Temu Duga (Pendidikan)

: Tidak ▼

**Sarjana Muda Kejuruteraan Geomatik dengan Kepujian,
Geomatics Engineering, Isikan code ini UT6581004**

CARIAN KOD PROGRAM PENGAJIAN BERDASARKAN IPTA

Papar 10 ▼ carian

Kod	Nama Program Pengajian
UT6581004	SARJANA MUDA KEJURUTERAAN GEOMATIK DENGAN KEPUJIAN

Paparan 1 hingga 1 daripada 1 Carian (Disaring daripada 54 Jumlah Carian)

Carian Terperinci: UT6581004

**Semak, pastikan program
adalah betul**

Sebelumnya 1 Seterusnya

Join us! UPU

KOD PROGRAM PENGAJIAN
KEMASUKAN KE IPTA
PROGRAM PENGAJIAN LEPASAN STPM/SETARAF
SESI AKADEMIK 2021/2022

Lepasan STPM

CARIAN BERDASARKAN

Pilihan Carian▼

- IPTA
- Bidang
- Temu Duga
- Keseluruhan
- Keseluruhan Ikut Aliran

57 program pengajian yang ditawarkan

IPTA

UT-UTM

KATEGORI

Kategori STPM

ALIRAN

Sains

Temu Duga (Bukan) : Tidak ▼

Temu Duga (Pendidikan) : Tidak ▼

**Sarjana Muda Kejuruteraan Geomatik dengan Kepujian,
Geomatics Engineering, Isikan code ini UT6581004**

CARIAN KOD PROGRAM PENGAJIAN BERDASARKAN IPTA

Papar 10 ▼ carian

Kod	Nama Program Pengajian
UT6581004	SARJANA MUDA KEJURUTERAAN GEOMATIK DENGAN KEPUJIAN

Paparan 1 hingga 1 daripada 1 Carian (Disaring daripada 57 Jumlah Carian)

Carian Terperinci: UT6581004

**Semak, pastikan program
adalah betul**

Sebelumnya 1 Seterusnya



Terima Kasih



In the Name of God for Mankind

www.utm.my

