

REGISTRATION FEE

PARTICIPANT	PROGRAMME FEE*
Local	RM 28,000
Foreign	USD 14,000

*Excluding accommodation, living expenses, material required for the programme and VISA application. Fee subject to change

PROGRAMME CAPACITY

The number of participants is limited to 12 candidates only. If the minimum number of participants are not met, the programme may have to be postponed to a later date.

PROGRAMME DATE

February – July 2026

EXPRESSION OF INTEREST

Full name :

Address :

Designation
organisation :

Contact
details :

IN HOUSE ACCOMODATION

Scholar's Inn, Universiti Teknologi Malaysia

Tel : +607-553 5197 / +6011-5763 7632

Email: scholarsinn@utm.my

Website: dvcdev.utm.my/scholars-inn

NEAREST ACCOMODATION

Pulai Spring Resort, Pulai, Johor Bahru

Tel: +607 521 2121

Email: enquiry@pulaيسprings.com

Website: www.pulaيسprings.com

Good Hope Hotel, Skudai, Johor Bahru

Tel: +6019-779 9437

Email: reservation@goodhopehotel.com.my

Website: goodhopegroup.com.my

CONTACT DETAILS

Assoc. Prof. Sr Dr. Ami Hassan Md Din

Chairman of Steering Committee for Malaysia's
FIG/IHO/ICA Hydrography Programmes

Tel: +6019-729 1109

Email: amihassan@utm.my

Sr Dr. Mohd Farid Mohd Ariff

Programme Manager

Marine Geospatial and Cartography
Programme (UTM CARTO I) FIG/IHO/ICA
Category "B"

Tel: +6011-1223 4055

Email: mfaridma@utm.my

Faculty of Built Environment and Surveying

Universiti Teknologi Malaysia,

81310, Johor Bahru

Tel: +607-5557351

Email: builtsurvey.utm.my



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



**PHOTO LASER
GRAMMETRY**

UTM Spin-Off Company 940142X

MARINE GEOSPATIAL AND CARTOGRAPHY PROGRAMME (UTM CARTO I) FIG/IHO/ICA CATEGORY "B"

PROGRAMME DATE:

February – July 2026

Organised by:

Photo Laser Grammetry Sdn. Bhd.

Faculty of Built Environment and Surveying
Universiti Teknologi Malaysia

Recognised by:



In collaboration with



OVERVIEW

The Marine Geospatial and Cartography Programme (UTM CARTO I) submitted and presented by Universiti Teknologi Malaysia (UTM) to the FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) was awarded international re-recognition at Category B level until 2028.

OBJECTIVES

The programme aims to cater for professionals who competence is, creative and innovative as marine geospatial and cartographers. To fulfil this requirement, the programme will provide the knowledge, understanding and a practical comprehension to individuals with the skill to carry out the tasks to produce and maintain marine geospatial products.

ENTRY REQUIREMENT

The following is the minimum entry qualification required for the is programme:

- (a) At least Diploma in Land Surveying / Geomatic Engineering or Geoinformatics / Civil Engineering/ Marine Technology/ Computer Programming or other marine related fields.

OR

- (b) At least three (3) years working experience in Land Surveying, Geomatics Engineering, or Geoinformatics, Civil Engineering, Marine Technology, Computer Programming or other marine related fields "(to nominate at least one (1) Professional reference)".

COURSE

The programme has been designed to be delivered continuously for 27 weeks where the students are able to complete the following programme based on the S-8B standards.

BASIC SUBJECTS

Mathematics, Statistics, Theory of Errors

B1 Mathematics and Statistics

Information and Communication Technology

B2 Marine Geospatial Technologies

Earth Science

B3 Marine Geology

ESSENTIAL SUBJECTS

General Geodesy

E1 Geodesy

General Cartography

E2 Fundamental of Cartographic Environment

Hydrography and Nautical Products

E3A Hydrographic Surveys

E3B Fundamental of Nautical Charting

E3C Marine Safety information and Product Maintenance

Data for Nautical and Special Purpose Charting

E4 Compiling Bathymetry, Contouring and Other Features

Photogrammetry and Remote Sensing

E5A Photogrammetry

E5B Remote Sensing

Geospatial Information and Processing

E6A Marine Geospatial Data Infrastructure (MGDI)

Implementation

E6B The Practical Use of GIS For MGDI Application

E6C Marine Geographical Information System

Nautical Cartography

E7A Fundamental of Marine Information Standard

E7B Nautical Assessment, Compilation and Production

E7C Product Finishing and Visualisation

Legal Aspect

E8 Liability and Law of the Sea

Special Purpose Charting

E9 Industrial and Engineering Survey Chart Production

Map/Chart Reproduction

E10 Comprehensive Cartographic Project (CCP)