

REGISTRATION FEE

RM 25,000

50% sponsored by Land Surveyors Board, Malaysia

PROGRAMME CAPACITY

The total number of participants is limited to 20 candidates only.

**If the number of participants is not met, the programme may have to be postponed to a later date.*

PROGRAMME DATE

To be announced

EXPRESSION OF INTEREST

Full Name :

Address :

Designation :

Organization :

Tel/Fax :

Mobile :

Email :

ACCOMMODATION

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UTM HYDRO III

(HYDROGRAPHY AND MARINE TECHNOLOGY PROGRAMME)

FIG/IHO/ICA CATEGORY A

Programme date:
To be announced

Organised by:
PHOTO LASER GRAMMETRY SDN BHD
FACULTY OF BUILT ENVIRONMENT AND
SURVEYING
UTM JOHOR BAHRU



Recognised by



OVERVIEW

In 1998, UTM was granted recognition to conduct the HYDRO II Programme (Category A) by the International Federation of Surveyors (FIG) and International Hydrographic Organisation (IHO). In 2014, UTM was granted re-recognition to continue conducting the HYDRO II Programme.

In 2018, UTM was granted recognition to conduct UTM HYDRO III in collaboration with National Hydrographic Centre, Land Surveyor Board Malaysia and Department of Survey and Mapping Malaysia.

The 1st batch of UTM HYDRO III programme was held on October 5, 2018 until August 4, 2019 with a total of 17 students. The 2nd batch of UTM HYDRO III programme comprising of 18 students took place on 19 December 2019 until 11 May 2021.

AIM OF THE PROGRAMME

The Hydrography and Marine Technology Programme (UTM HYDRO III) aims to train and expose a hydrographic surveyor towards the development and market demand within the mapping and marine industry. Hydrographic surveyors are the key pillar to implement survey and mapping activities and their credibility as surveyors are important to ensure all survey and mapping activities are implemented in accordance to the standards.

This programme is proposed for Malaysian Licensed Land Surveyors and Registered Land Surveyors to participate in international programme and to train them professionally in line with the current developments. In addition, this programme is important for land surveyors to ascertain their expertise is recognised either on a national or international level.

IMPLEMENTATION

The programme structure is designed for 42 weeks. This comprises of lectures, tutorials, laboratory exercises and in-campus field exercises that are equivalent to 1,050 class hours and 7 weeks of Hydrographic Field Survey Project.

In summary, the total duration of Hydrography and Marine Technology Programme (UTM HYDRO III) is 1,330 hours that can be divided as follows: Theories (513 hours), Tutorials (169 hours), Practicals (66 hours), Self-Guided Studies (177 hours), Assignments (79 hours), Final Examinations (46 hours) and Hydrographic Field Survey Project (280 hours).

LIST OF SUBJECTS

- MATHEMATICS AND STATISTICS [66H]
- COMPUTER PROGRAMMING [62H]
- PHYSICS [72H]
- GEODESY [96H]
- TIDES: THEORY AND PRACTICE [94H]
- HYDROGRAPHIC POSITIONING [96H]
- HYDROGRAPHIC SURVEYS [194H]
- HYDROGRAPHIC INFORMATION [90H]
- LAW OF THE SEA [60H]
- SEAMANSHIP AND NAVIGATION [48H]
- MARINE METEOROLOGY [42H]
- DYNAMIC OCEANOGRAPHY AND SEDIMENTOLOGY [70H]
- REMOTE SENSING [60H]
- HYDROGRAPHIC FIELD SURVEY PROJECT [280H]

ENTRY REQUIREMENT

The participants of this programme will be comprised of two categories: Licensed Land Surveyors and Registered Land Surveyors. The entry requirement are as follows :

- i. At least Degree in Land Surveying or Geomatic Engineering, AND
- ii. Registered with the respective Board of Land Surveyors, Malaysia (LJT)

METHODOLOGY

The Hydrography and Marine Technology Programme (UTM HYDRO III) has been designed to be flexible; the programme is delivered in 42 weeks (6-8 hours/day) by modular approach. The programme is designed with seven (7) modules and it offers the adaptable and flexible mode to complete this programme in two years. The programme contains a series of modules and formal training sessions as well as additional practices, tutorials and field experience. The total class duration is 1,330 hours and it has been divided according to the structured courses in this programme. The program structure is divided into seven (7) modules as shown below :

- i. **Module 1** : Foundations of Hydrography & Marine Technology (200 Hours / 6.67 Weeks)
- ii. **Module 2** : Marine Data Acquisition I (190 Hours / 6.33 Weeks)
- iii. **Module 3** : Marine Data Acquisition II (290 Hours / 9.67 Weeks)
- iv. **Module 4** : Geospatial Data Development and Legal Aspect (150 Hours / 5 Weeks)
- v. **Module 5** : Industrial Technology for Hydrographic Development I (90 Hours / 3 Weeks)
- vi. **Module 6** : Industrial Technology for Hydrographic Development II (130 Hours / 4.33 Weeks)
- vii. **Module 7** : Hydrographic Field Project (280 Hours / 7 Weeks)