



HIDROGRAPHIC EDUCATION

HYDROGRAPHIC SURVEYOR PROFESSION EDUCATION PROGRAM

Recognized at the Category A Level by FIG/IHO/ICA IBSC



Geodesy and Geomatics Engineering Sub Program
Engineer Profession Program
Directorate of Education - Institut Teknologi Bandung

<http://www.gd.itb.ac.id>

Hydrographic Education (HE) is an annex embedded to the long established academic education in Geodesy and Geomatics Engineering. HE mission is to conduct Hydrographic Surveyor Profession Education Program. The program is operated at ITB campus. Courses are developed according to IHO S-5 Edition 11.1.0 December 2014 E. Recognition at the Category A level is granted by FIG/IHO/ICA IBSC since October 2014. The program is composed by 56% course work and 44% practical session, including off-class assignments, and field work.

Purpose

The program is aiming at educating participants with comprehensive and broad-based knowledge in all aspects of the theory and practice of hydrography and allied disciplines, for them to practice analytical reasoning for decision-making and development of solutions to non-routine problems.

Award

Successful participants will be awarded FIG/IHO/ICA Category A Hydrographic Surveyor along with *Insinyur* (Ir.) title certificate, under Indonesian Act 11/2014.

Structure

The program comprises of class, off-class, and field activities. Field work is scheduled close to the end of program and concluded by a final seminar.

Candidates

Candidate should (possess):

1. Health certificate from authorized medical institution.
2. Degree in geodetic, geomatics, or surveying engineering or equivalent. The university of origin must be accredited by the respective national authority.
3. Two years working experience.
4. Evidence of English proficiency (i.e. IELTS, TOEFL or equivalent).
5. Necessary permits to study in Indonesia (required upon enrolment).
6. Pass interview and written tests covering positioning, hydro-acoustics, and tide.

Content

Semester I	
1. Ethics	2
2. Profession	2
3. Safety	2
4. Engineering Practices I (Maritime System)	4
– Legals	
– Nautical Science	
Semester II	
5. Engineering Practices II (Hydrographic Engineering)	8
– Seabed Studies	
– Operation Hydrography	
– Hydrography Informatics	
– Meteorology-oceanography	
6. Case Studies	4
– Optional*	
– Field Work	
7. Seminar (Hydro-ocean)	2

*Coastal Environmental Survey, Watershed Hydrography, or Marine Remote Sensing

Duration

The total duration of the program is 36 weeks and divided into two semesters.

Annual Schedule

June-July	Enrolment
August	Opening
September	Theoretical
October-March	Field work
April-May	Studio
June	Seminar
July	Closing

Capacity

Class capacity is limited to 12 participants and the program runs with at least 6 participants. The program runs on full-time basis at ITB campus. The field work is conducted in Pramuka Island, SW Java Sea.

Registration

Applicants shall submit digital copies of the following documents:

1. Degree certificates and the corresponding academic transcripts.
2. Recent 4 cm × 6 cm photo.
3. Curriculum vitae.
4. Health certificate including drugs free credential.
5. English proficiency certificate (for non-native speakers).
6. HSE certificate (if any).
7. Evidence of on-line registration.
8. Health insurance.
9. Statement of purpose.
10. Recommendation letter.

Information on application and registration can be obtained from:

usm.itb.ac.id/wp/?page_id=2242

Fees

The tuition fee for international participant is IDR 187,200,000,- for the learning facilities and infrastructures (e.g. class rooms, equipments, software, and training boat for the field work). The fee does not include participants' personal expenses, such as accommodation and living costs.

Accommodation

The university provides accommodation at restricted capacity. Options of private accommodations nearby the ITB campus are available.

Contact

For further inquiry regarding the program and assistance for arrangement of accommodation, please write to:

Dr.rer.nat. Poerbandono
Coordinator
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