

Brief of history



'Geodesy' at Institut Teknologi Bandung (ITB)

Technische Hoogeschool (TH) Bandoeng

Geodesy Section is separated from Civil Section,

consecutively becoming Geodetic Engineering under the

Faculty of Civil Engineering and Planning

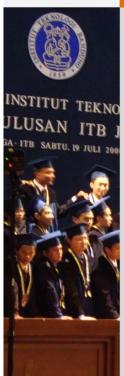
Reorganized under the Faculty of Earth Sciences and

Technology: Geodesy and Geomatics Engineering Study

Program



Programs offerred



Undergraduate

Regular 8 semesters (bachelor degree)

Fastrack 10 semesters (bachelor and master degree)

Graduate

Profession 2 semesters

Hydrographic Surveyor Profession Education Program (being reviewed by FIG/IHO/ICA IBSC for recognition at the Category A level)

Master Degree 4 semesters

Master of Engineering Master of Land Administration

Doctor Degree 6 semesters

XXV International Federation of Surveyors Congress, Kuala Lumpur, Malaysia, 16 – 21 June 2014



Purpose of this presentation



To display present state of curricula design for the undergraduate program

Transformation of paradigm, i.e. recent from previous version of curriculum

- from resource-based to outcome-based
- from solution domain learning to problem domain learning



What we are now facing...



Size of student body

Undergraduate 351 Master 54 Doctor 18

Staff growth

Existing 42 (26 PhD), decrease by 30% within next 5 years

Demand in the industrial and governmental spheres

Regional issue

AFTA 2015
Standardization through accreditation and recognition



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Strategy



Resources optimization

Size of student body Staff growth

Intensify students' team work and exposure

Demand in the industrial and governmental spheres

Activating regional scheme

Industrial affiliation

Community center, e.g. ESRI-ITB



Present curricula content: Composition



Total credit: 144

Aspects

Engineering and science	104
Soft skill and humanity	14
Management, legal, and environment	8
Industrial contexts and problem domain	12
Undergraduate thesis	6



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Present curricula content: Learning 'adds-on'



Team work and exposure

- 2nd year, geospatial expedition
- 3rd year, field camp
- 4th year, industrial internship
- South East Asian Networking Initiative in Geoinformation and Ocean Science (SEA I GO)
- Twinning program (presently with Chulalongkorn University, Bangkok-Thailand)



Outlook



Graduate program: Way forward

Profession, i.e. Hydrographic Education:

Under review by FIG/IHO/ICA IBSC

Master level, i.e. Master of Engineering:

Being prepared for ASIIN accreditation





Terima kasih (Thank you)



