

Geodesy and Geomatics Engineering Curriculum at the Institute of Technology, Bandung, Indonesia

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SUMMARY

Compliance to international standard, tie to national qualification framework, and employment opportunities are factors in the external environment that have transformed foundation for development of geodesy and geomatics engineering curriculum at the Institute of Technology, Bandung (ITB), Indonesia. This paper comes out from elaboration of conceptual link between factors in external environment and approach for developing composition of courses. The need to provide broad-based and fundamental competences is highlighted. While there have been widespread applications of geodesy-geomatics, spatial aptitude and mathematical skill are still maintained as core focus of learning. We spot selected points from previous curriculum and elaborate them to indicate how they reflect transformed foundation in curriculum development. The resulting set of course structure introduces new subjects, sharpened learning roadmap, as well as branding of compilation of conventional learning materials.