

An Introduction of Geomatics Education in National Cheng-Kung University

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Abstract

Geomatics includes the science and technology of gathering, analyzing, interpreting, distribution, and using geospatial information. At National Cheng-Kung University (NCKU), the research and teaching activities of the Department of Geomatics evolves around the subjects of, but not limited to, geodesy, surveying, mapping, navigation, cartography, remote sensing, photogrammetry, geographic information system/science (GIS), and global navigation satellite system (GNSS). Each or a combination of these subjects has an important connection to our daily life. For example, the combination of GIS and GNSS facilitates the transportation and improves the safety of airborne and land vehicles. The Department of Geomatics offers Bachelor of Science (BSc), Master of Science (MSc), and Doctor of Philosophy (PhD) degrees to Taiwanese students and MSc and PhD degrees to international students. The goals of the teaching curriculums, with the vision of Digital Earth, are to endow the virtues of responsibility and optimistic and independent thinking to the students to be well suited for the Information Era in 21st century. In the undergraduate study, the students are strengthened with fundamental, professional, and application curriculums, along with general and humanity education for independent thinking. For the graduate study, the students are required to have the ability of identifying, analyzing, and solving problems independently with the curriculums covering both theoretical and practical aspects. The students are expected to be independent and professional surveyors or researchers in geomatics field.

Keywords: Geomatics, National Cheng-Kung University