



REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS

DEPARTMENT OF INFORMATION AND
COMMUNICATION TECHNOLOGIES

ABOUT THE PROGRAM

The Remote Sensing & Geographic Information Systems (RS&GIS) Program is a recognized education, training and research program satisfying the need of the region for state-of-the-art technology.

The curriculum is designed to address the theoretical aspects and practical application of space technology, especially in Remote Sensing, GIS and GNSS. It provides students ample time and scope to gain practical experience on spatial data through laboratory sessions. Students are trained to understand the structure and characteristic of digital spatial data, its capture through airborne and spaceborne sensors; handling of big Geo data; processing, analysis and extraction of information by

digital tools, GIS and cloud based applications; visualizing and disseminating through web and location based services to secure optimal use of the extracted information. Further, coping with the demand, open source geoinformatics is practiced along with the commercially available platforms for spatial data handling and analysis.

PROGRAMS

- ▶ Doctor of Engineering
- ▶ Doctor of Philosophy
- ▶ Master of Engineering
- ▶ Master of Science
- ▶ Certificate



AREAS OF SPECIALIZATION

Major areas covered in the coursework are remote sensing and GIS at fundamental and advanced level, earth energy interaction, geometric and atmospheric corrections, application potential in various disciplines, geostatistics, geospatial modeling, Unmanned Aerial Vehicle (UAV) data acquisition, aerospace technology, InSAR fundamentals and processing, GNSS data acquisition, WebGIS, Location based services, and integration of GIS, remote sensing and GNSS.



PREFERRED BACKGROUND

MASTER PROGRAM

The RS&GIS in AIT is a multidisciplinary field and hence welcomes both engineering and science background students. Undergraduate degree in information, computer, and space related field, civil and infrastructure related fields (regional planning, mapping, cartography surveying, geodesy), earth science environment and natural resources (oceanography, agriculture, forestry, fishery) or social science disciplines with adequate professional experience in a relevant field are considered.

DOCTORAL PROGRAM

Master degree in any of the above disciplines.

ELIGIBILITY REQUIREMENT

To be eligible for admission to the regular Master's program, an applicant must:

- ▶ hold a Bachelor degree (normally from a four-year program), or its equivalent, in an appropriate field of study from an institution of good standing acceptable to AIT;
- ▶ have undergraduate grades significantly above average; the minimum cGPA requirement for admission to the Master's Program is 2.75 or equivalent, at the Bachelor degree level;
- ▶ English Proficiency Requirement: AIT-EET:6 or IELTS-Academic:6 (writing 6) or TOEFL Paper: 550 (writing 59-61) or TOEFL CBT: 213 (writing 25-26): TOEFL IBT: 80 (writing 21-23);

For the Doctoral degree program, in addition to the above english eligibility requirements, an applicant must:

- ▶ have strong academic records (both undergraduate and graduate) and normally hold a four-year bachelor's degree, and a Master's degree, preferably with a combination of course and thesis work, from an institution of good standing, acceptable to AIT.
- ▶ The minimum cGPA requirement for admission to the doctoral program is 3.50 or equivalent, at the Master's degree level.

CONTACT US

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