

Entry Requirements

Associate Degree in Surveying & Geographic Information Technology

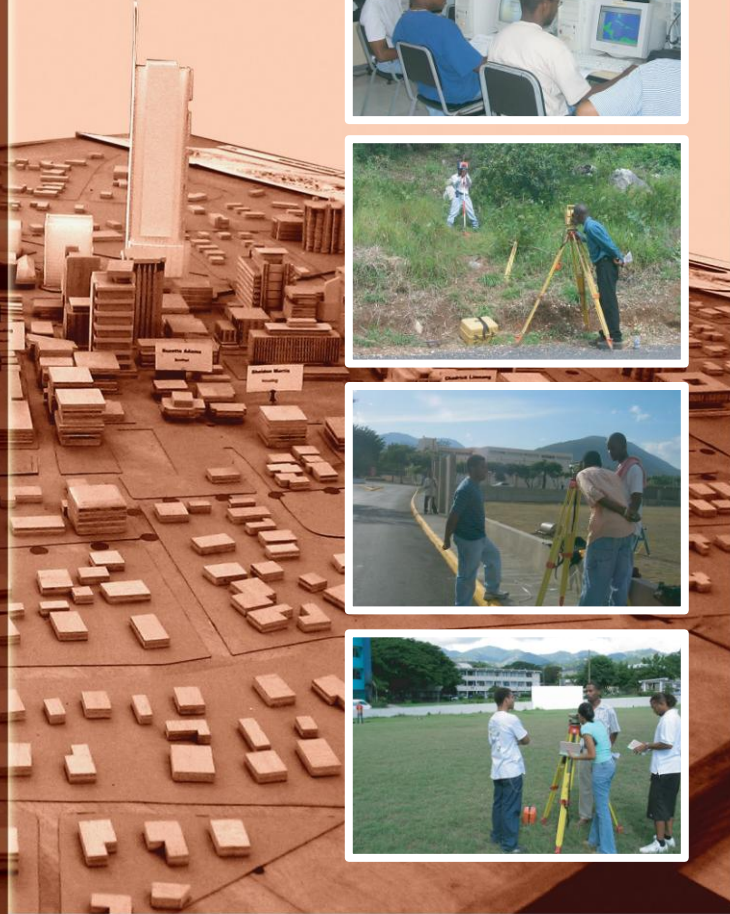
4 CSEC/GCE O-Level passes including English Language, Mathematics, and two (2) others from among the following approved list: Physics, Geography, Technical Drawing, Elementary Surveying, and Information Technology. Grade III in June 1998 and later is acceptable or GCE O' levels at minimum grade C. Physics is strongly recommended at Grade II.

Students who have completed the Land Surveying Technician course of study will be required to complete 28 credits to obtain the associates degree.

Job Opportunities

- Surveying and Mapping Division of the National Land Agency
- National Environment and Planning Agency
- National Works Agency
- Professional Surveying Firms
- Geographic Information Systems Firms
- Urban Development Corporation
- Jamaica Bauxite Institute
- Bauxite Mining Companies

For further general information visit the Land Surveyors Association's website: <http://www.lsaaj.com>



University of Technology, Jamaica
Faculty of The Built Environment
School of Building & Land Management



SGIT

Associate Degree in Surveying and Geographic Information Technology

For further information:
University of Technology, Jamaica
Faculty of The Built Environment
School of Building and Land Management
(SBLM)

Division of Land Surveying and Geographic Information Sciences

237 Old Hope Road, Kingston 6, Jamaica
Tel: (876) 970-5348 or (876) 927-1680 - 8
ext. 2347 or 2180 Fax: 702-4935

Website: <http://www.utechjamaica.edu.jm>

Associate Degree in Surveying & Geographic Information Technology

The Associate Degree provides an excellent combination of Land Surveying, Geographic Information Science (GISc), Cartography, Global Navigation Satellite System and related fields. It aims at generating proficient graduates capable of contributing significantly as technologists in the field of Land Surveying and GIS.

The discipline of Surveying and GIS is primarily concerned with data gathering regarding the measurement of landforms and features, the recording of relevant data and the manipulation of the data for the production of information relevant to Land Management.

Programme Content

The programme is offered full-time over a two year duration. The curriculum is designed to train students to be technologists in the main disciplines of Land Surveying (i.e. Plane Surveying, Geodetic Surveying, Engineering Surveying, Topographical Surveying, Cadastral Surveying, Satellite Surveying) and



Land/Geographic Information Systems.

The content is delivered through lectures, field exercises, seminars, student presentations, computer laboratory exercises, class exercises and field practicum's.

Technologies/Focus Areas

Topographical Surveying & Mapping

Topographical Mapping involves the sequential ingathering, reduction and presentation of data about the earth's surface by the use of various methods of measurement, equipment and observational techniques.

This module concentrates on the aspect of surveying the earth's topography. It aims to equip students with sufficient knowledge and skills to carry out large scale Topographical Mapping Surveys using the most modern equipment and techniques available and presenting this data using standard Cartographic techniques.

GIS for Technologist

The module is designed to educate students in the practical aspects of Geographic Information systems (GIS) technology. It concentrates on the manipulation of existing software in order to analyze data and produce maps in order to answer questions relating to numerous issues required for decision making.

Engineering Surveying

This type of surveying is an integral part of civil engineering projects. The preparation of initial survey plans for detail design, setting out of critical points for construction and the measurement & monitoring of civil structures are types of works under this category.

Geographic Information Systems

Geographic Information Systems (GIS) integrates the logic of the relationship between spatial data with

sophisticated software and hardware to create realistic simulations of the real world to support a wide range of analytical applications. GIS can be found at work in many sectors including Utilities, Land Management, Physical and Economic Planning, Natural Resource Management, Public safety and Defense. Graduates will cover the Concepts, Sciences and Applications required to lead this exciting area.

GPS Satellite Surveying

The Global Positioning System (GPS) is a world wide satellite based positioning system developed by the US Department of Defense (DOD) as a military system. GPS has enormous potentials for the Surveying and Mapping Industries. Now its civilian use far exceeds the military, as surveyors are among the main benefactors of the high tech approach to surveying details on the earth's surface.

