Outline of course distribution in Bachelor of Geomatics Engineering Program

Geomatics Engineering Program
School of Engineering

Dhulikhel, Kavre, P.O Box 6250, Kathmandu Nepal
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For Detail Information
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Scholarship:
This is a joint program of Kathmandu University, School of Engineering with Land Management Training Center, Dhulikhel. Government scholarships for 20 students under various categories; 100% scholarship for 2 government employees: Engineering Survey Group, 33% scholarship for 10 students based on KUCAT merit list and 50% scholarship for 8 students based on regional development are available. The University also provides loan scholarship and financial aid for some academically bright but financially weak students.
Geomatics is a systemic, multidisciplinary, integrated approach to selecting the Instruments and the appropriate techniques for collecting, storing, integrating, modelling, analysing, retrieving at will, transforming, displaying and distributing spatially geo referenced data from different sources with well-defined accuracy characteristics, continuity and in a digital format.

The subject is erected on the scientific framework of geodesy; it uses terrestrial, marine, air-borne and satellite-based sensors to acquire spatial and other data.

Besides collection of spatial data, some initiatives are presently developing worldwide using Geomatics disciplines and techniques for the regulation of Geo Spatial Information, or more simply Geo Information (GI) and for the adequate use of Earth Observation (EO) data for studying and managing environmental hazards and risks.

Objectives:

- To produce qualified academic manpower in the field of Surveying, mapping, Land Administration and geo informatics to satisfy the need of various institutions within the country and abroad.
- To establish the collaborative relationship with foreign institutions of the similar function for mutual benefit by student exchange and sharing of knowledge and technology for the benefit of mankind.
- To conduct and promote research and development activities in the field of Geo informatics and land Administration.

Syllabus compatible with any reputed academic institutions
- Regular industry-based project works
- Field/Industry-based final semester
- On site learning provisions
- Dedicated Faculty

Facilities:

- Fully equipped laboratories
- Computer lab with individual work stations
- Wide range of literature including a digitally facilitated library
- Photocopy and scanning
- Wi-Fi
- Hostels
- Sports

Career Opportunities:

- Government ministries and departments
- Nepal Army/ Nepal Police
- Nepal Electricity Authority
- Private sector in Infrastructure development activities
- NGO/INGO
- International job market (Universities, Private and public companies)
- Academia and research institutes

Teaching and Evaluation System:

Apart from lectures and tutorials, students are given assignments for independent learning and evaluated frequently. To enhance their professional competence, regular in-house projects are conducted each semester. And final field-based intern cum project are experienced in the last semester. Frequent seminars, talk programs, presentations, lab experiments and site visits are organized to broaden student’s confidence. A minimum of two units of tests are a part of the evaluation scheme each semester. Students have to meet 80% attendance for regular classes and 85% attendance for practical classes. This is strictly monitored. Those that do not satisfy these requirements may not be allowed to participate in their final semester examination.

Course Duration:

The duration of the course is four years. The odd and even semesters start from August and February respectively. The classes are held from Sunday to Friday from 9:00 am to 4:00 pm. Each year consists of two six months semesters.

Eligibility for Admission and procedure:

Candidates should have completed 10+2 or equivalent degree from recognized academic institutions. A candidate with minimum 50% marks in aggregate and with 50% marks in physics, chemistry and mathematics will meet primary eligibility requirements. For details visit: www.ku.edu.np