



काठमाडौं फरेस्ट्री कलेज KATHMANDU FORESTRY COLLEGE

संस्थापित: २०५२ (२००५)

VAT No.: 302402302

Company Regd. No.: 972/2063/064

Ref. No.: ०७९

Basic GIS Training at Kathmandu Forestry College

5-10 August, 2018

Introduction

The Geographical Information System (GIS) and Remote Sensing are helpful scientific tools to analyze the earth system, phenomenon and characteristics of the objects on the earth. The RS and GIS help to explore spatial information captured by the satellite or scanned images.

These days, GIS and Remote Sensing are considered as reliable and convincing tool to generate the spatial based data from the field, conduct geographic analysis and visualize the information in meaningful and demonstrative way.

Several institutions have been using GIS and RS in their activities. So, the demand of GIS and RS experts has been increasing day by day. Realizing this, Kathmandu Forestry College (KAFCOL) has been offering MSc in Geographical Information Science and Systems (UNIGIS MSc) since 2012, in cooperation with the Department of Geoinformatics – Z_GIS, University of Salzburg, Austria (Europe). This programme has been approved by the Ministry of Education, Government of Nepal and accepted as equivalent to Master's Degree by the Tribhuvan University. This international MSc degree course is pioneer of its type offered in Nepal, which has worldwide recognition. Individuals and practitioners with Bachelor degree who are interested to pursue GIS/RS higher degree course (including those who are already active in this field) will find this course very useful.

Alongside offering UNIGIS MSc course, KAFCOL organizes different relevant activities to promote application of GIS and remote sensing in Nepal. This week-long training in basic GIS is one of such activities.

Objectives:

The training has two main objectives: (i) to introduce GIS Science, impart knowledge about its different aspects and utilities, and provide basic practical skills for applying GIS and remote sensing in the field of interest, and (ii) to develop a foundation to facilitate enrollment and successfully complete the UNIGIS MSc course by those undergraduate degree holders who have not yet entered the geospatial field but have interest in it.

Expected outcomes

On the completion of the training course, the participants are expected to:

- be able to prepare different types of maps in ArcGIS

अमरावती मार्ग-३५, कोटेश्वर, काठमाडौं, पोस्ट बक्स नं. ९५९४, फोन नं. ९७७-१-५१४७२११, फ्याक्स: ९७७-१-५१४७२११
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- gain basic knowledge in geospatial analyses
 - be able to handle ArcGIS for spatial and non-spatial data integration
 - formulate and conduct GIS projects in the area of their interest

Fee: Tentative fee for the entire training course is Rupees 4,000 per person.

Session plan

Day	7:00 -8:30 AM	Resource Person	8:30 to 10:00 AM	Resource Person
Day 1	Introduction to GIS and Installing ArcGIS	RA Mandal	Getting started in ArcGIS	Nirmal
Day 2	Fundamentals of map projection and transformation	HL Shrestha	Geo-referencing/Geocoding	HL Shrestha
Day 3	Fundamentals of GPS	RK Thapa	Use of GPS data in GIS environment	RK Thapa
Day 4	Geographic analysis (Spatial, Network, topographic, watershed, Geoprocessing)	HL Shrestha	Geostatistical basics and application	HL Shrestha
Day 5	Digitization and topology creation	Nirmal	Symbolization, visualization and cartography	RK Thapa
Day 6	Map layout and design	Nirmal	Small Project	Nirmal/RA Mandal

Training Instructors:

1. Dr. Him Lal Shrestha, Program Coordinator, UNIGIS Program, KAFCOL
2. Dr. Ram Asheshwar Mandal, Associate Professor, KAFCOL
3. Mr. Nirmal Adhikari, INPRED Solution
4. Mr. Raj Kumar Thapa, NRSPS