



PROFESSIONAL TRAINING ON
**PRINCIPLES AND APPLICATION OF
GEOGRAPHIC INFORMATION SYSTEMS (GIS)**

Date: 12-19 January, 2017

Venue: Dept. of Urban & Regional Planning
Rajshahi University of Engineering & Technology (RUET)



The Department of Urban & Regional Planning, Rajshahi University of Engineering & Technology (RUET) is going to offer one week long professional training on “Principles and Application of Geographic Information Systems (GIS)”.

The aim of the training program is to disseminate the key concepts behind the GIS technology with practical concerns and real-world applications. Recognizing that many potential GIS users are non-specialists may only need a few maps, this training is designed to be accessible, pragmatic and concise. From the melting of the polar ice caps to privacy issues associated with mapping, this training will provide a gentle, yet substantive, introduction to the use and application of digital maps, mapping and GIS.

The training will provide academic and professional community an exposure to the GIS principles, orientation to spatial database and applications in fields of engineering, natural and social science. This program expects that the trainee will be able to understand, analyze, visualize spatial data and information, interpret in the form of maps, reports, and charts allowing timely and effective decision making.

DESCRIPTION

This is a hands-on, exercise-based GIS course that explores the range of functionality of ArcGIS. The course has been tailored to aptly benefit those working in diversified fields. Prime focus will be on using ArcGIS 10.2, components of a GIS; working with datums and projections, GPS data development, archiving and integration into ArcGIS; working with shape files, layers, Geo-databases, Geo-processing, basic editing; spatial data creation and manipulation; creating and working with maps, map templates, etc.

In particular, this course will provide experience using various GPS units and how to integrate GPS derived data into a GIS. Additionally, the training will cover the fundamentals of map creation, template development, and sharing/dissemination of map products. The programme will not exhaustively lecture or cover definitions and mundane GIS terms; but would rather focus on explaining “real-world” application of a GIS and provide the opportunity to gain experience through exercises and mini-projects, teaching/presentation (35%), hands-on exercises (50%), field and group exercises (10%), and discussion/application (5%).

TOPICS TO BE COVERED

Following topics are expected to be covered:

- Module 1: Introduction and basic concepts of GIS
- Module 2: Understanding ArcGIS Platform
- Module 3: Data preparation
- Module 4: Coordinate and Projection System.
- Module 5: Data Query and Information generation.

- Module 6: Spatial analysis with Vector data
- Module 7: Spatial analysis with Raster data
- Module 8: Application of GIS in Disaster Management
- Module 9: Application of GIS in Infrastructures
- Module 10: Application of GIS in WaSH Projects
- Module 11: Application of GIS in Transportation
- Module 12: Application of GIS in Public health
- Module 13: Map Layout preparation

COMPUTER SKILLS

Knowledge of GIS is not essential to participate in the workshop, but prior knowledge, as well as exposure to computers will be helpful.

REGISTRATION

Apply at: <https://goo.gl/forms/e3LV5aelMi8JJjU52>

Duration: 1-31 December 2016.

Fee: BDT 10,000 only

Training fee includes all training materials, GIS data on flash drive, snacks/drinks each day.

Confirmation of eligible candidates will be on a first come first served basis up to a maximum of 25 candidates. All participants are expected to bring their own laptop with internet connecting modem.

CERTIFICATE OF PARTICIPATION

‘Certificate of Participation’ will be awarded on successful completion of the training.

PAYMENT

Account Name: URP Workshop

Account No: 11796; Rupali Bank Ltd, RUET Branch, RUET
Working Hours: 10:00 AM ~ 4:00 PM (Sunday- Thursday)

CONTACT ADDRESS:

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