



WORKSHOP ON

MULTIDISCIPLINARY APPLICATION OF GEOGRAPHIC INFORMATION SYSTEM (GIS)

Date: 03-04 December, 2015

Venue: Dept. of Urban and Regional Planning, RUET



The Department of Urban and Regional Planning, Rajshahi University of Engineering & Technology (RUET) is going to offer a two days long workshop on “Multidisciplinary Application of Geographic Information System (GIS)”. GIS covers multi-disciplinary field that exploits the advances in diverse areas such as engineering, planning, computer science, information technology, geography, mathematics and statistics. Every day, professionals of diverse fields use GIS technology to research, develop, implement, and monitor the progress of their plans. GIS can facilitate the decision-making process for many professionals to transform a vision of tomorrow into a strategic action plan for today.

Some of the key features of a GIS include spatial database creation and management, analysis, query, visualization, and generation of informative maps. Major applications of GIS include housing, infrastructure, transportation, disaster management, network management for power, telecom, gas, water,

sewerage, drainage, planning and management of natural resources, environmental monitoring, urban planning, and so on.

The aim of this workshop is to provide the academic community an exposure to the GIS principles, orientation to spatial database and applications in the fields of engineering and natural science. Manifold applicability of GIS technology draws attention among the academicians, researchers and other professionals. A civil engineer; for site selection of new construction projects and managing infrastructures; an environmental engineer for spatially visualize water, air or noise pollution; a computer engineer for developing intelligent decision support system; an architect and planner for planning and designing spatial pattern of a city, an agriculturist may need to know spatial distribution of water or soil salinity; a water resources engineer for delineating watershed or catchment’s area; an electrical engineer for visualizing distribution/layout of power grid; a statistician for census mapping; an economist for observing spatial pattern of economic development; a social scientist for studying human dynamics; a company for optimizing its geo-marketing; GIS can respond to these challenges with savvy. GIS allows us to view, understand, question, interpret, and visualize our world in ways that reveal relationships, patterns, and trends in the form of maps, reports, and charts allowing timely and effective decision making.

TARGET PARTICIPANTS

The workshop is designed for the enthusiastic students, academicians, researchers and other professionals of diverse disciplines including engineers, planners, architects, geographers, economists, statisticians, business professionals and other social scientists who are interested in geospatial analysis for informed decision making in their research and professional activities.

TOPICS TO BE COVERED

The possible outcomes at the end of the workshop are the followings:

- ✓ Basic concepts of GIS
- ✓ Spatial data types, preparation, management, processing, geospatial analysis and visualization
- ✓ Data structures and topology

- ✓ Global Positioning Systems
- ✓ Application of GIS in infrastructure planning & management
- ✓ Application of GIS in climate change, natural hazard, environment, and disaster management
- ✓ Application of GIS in town planning
- ✓ Application of GIS in water resources
- ✓ Application of GIS in social science for demographic analysis
- ✓ Case Studies in GIS
- ✓ Research Areas in GIS

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: <http://goo.gl/forms/oTMWUVVlhx>
Inquiry: workshopgis2015@gmail.com

REGISTRATION TIMELINE

7-30 November 2015.

Candidates are informed to provide proof of studentship during the registration process.

- BDT 750 only for UG students
- BDT 1,500 for PG students
- BDT 2,000 for Academicians or Professionals

Confirmation of eligible candidates will be on a first come first served basis up to a maximum of 100 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 workshop.

PAYMENT

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