

COMMUNITY PROGRAMME

on

Modern Surveying Tools and Techniques

(09th - 13th Sep. 2010)

1. Name of the Applicant: _____

2. Employed/ Unemployed/ Student: _____

3. Mailing address: _____

4. Village & Panchayat: _____

5. Tel/Mobile: _____

6. Category: _____ (General/ OBC/ SC/ ST)

7. Male/ Female: _____

8. Fees: _____

9. Have you attended any course organized
by _____ Department (if yes, please list them)

Date

Signature of the applicant

Place

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**Modern Surveying Tools and
Techniques**

09th - 13th Sep. 2010

Coordinators

**Vijay Kr. Bansal
Chander Prakash
Sunil Sharma**

Organized by



Department of Civil Engineering
National Institute of Technology, Hamirpur
Himachal Pradesh 177 005, India

(Tear off the filled registration form and mail to the coordinator)

COURSE OVERVIEW

The planning and design of all Civil Engineering projects such as construction of buildings, highways, bridges, tunnels, dams etc are based upon surveying measurements. Moreover, during execution, project of any magnitude is constructed along the lines and points established by surveying. Thus, surveying is a basic requirement for all Civil Engineering projects. Other principal works in which surveying is primarily utilized are:

- To fix national and state boundaries;
- To chart coastlines, navigable streams and lakes;
- To establish control points;
- To execute hydrographic and mapping; and
- To prepare topographic map of earth surface.

Theodolite is a key tool in surveying instruments used for measuring both horizontal and vertical angles. Total Station is an electronic theodolite integrated with an electronic distance meter (EDM) to read distances from the instrument to a particular point. The field measurements are transferred from Total Station to Geographic Information Systems (GIS) for further analysis. GIS is a computer system for capturing, storing, querying, analyzing and displaying geographically referenced data. The awareness about GIS has increased tremendously in the recent years in science and technology. Experts from various streams are using this powerful tool to analyze, model and display the graphical and non-graphical data.

This course will contain lectures on GIS and advanced surveying instruments like: digital level, total station, etc. In addition, hands-on practice on surveying tools and ArcView/ArcGIS, a well known GIS package, will also be given.

Venue: Civil Engineering Department, NIT Hamirpur, (Himachal Pradesh)

IMPORTANT DATES:

Last Date of Registration: **20th August, 2010.** The duly completed registration form along with registration fee of **Rs. 100/-** should reach the course coordinators before the last date of registration. The list of selected candidates will be displayed on the institute website on 25th Aug. 2010. Spot registration may also be permitted in case of vacancies.

ELIGIBILITY:

10th Pass (Matriculation)

TARGET GROUP:

Students of Polytechnic colleges

ACCOMMODATION:

Participants will not be provided any accommodation within the institute

ABOUT HAMIRPUR (HP)

The campus is situated at **Anu** in Hamirpur district of Himachal Pradesh and is 4 Kms from main bus stand of Hamirpur on *Hamirpur–Toni Devi* road. The Hamirpur town is well connected from major cities by road. The nearest broad gauge rail head is at Una (Himachal Pradesh) which is 80 Kms from Hamirpur. The campus has a picturesque surrounding facing snow clad Dhauladhar mountain ranges and lush green pine trees surround it. The place has healthy climate with moderate temperature ranging from 1°C to 38°C and an altitude of 900 meters.

ABOUT THE INSTITUTE

National Institute of Technology (NIT), Hamirpur was established in the year 1986 as a joint enterprise of the GOI and Govt. of Himachal Pradesh as a Regional Engineering College which was converted to NIT bestowing the status of a deemed University by MHRD in 2002. The institute has made tremendous strides in the areas of curriculum development, laboratory & infrastructure development and research. During April 2008, World Bank auditor assessed the impact of TEQIP and rated the institute at 9.4 on a ten point scale. NIT Hamirpur was ranked 18th in the CSR-GHRDC Engineering College Survey 2009. The institute has established collaborations with British (Sheffield Hallam University) and Australian (University of Technology, Sydney) Universities.

CIVIL ENGINEERING DEPARTMENT

The department is one of the pioneering departments of the institute established in the year 1986. Over the last few years, the department has progressed at rapid pace with development in both the spheres of infrastructural facilities and academic programs. The department has highly qualified faculty members engaged in teaching and research with the aim of achieving excellence in various fields. The department offers graduate program in Civil Engineering, PG courses and PhD programs in various disciplines of Civil Engineering. The consulting services in diverse fields of Civil Engineering is carried out for local government, government organizations, private firms etc. with the support of well equipped laboratories and computational facilities. The Department always remains in the forefront owing to R&D, planning, design, construction and consultancy services. The Department of Civil Engineering is the State Technical Agency for PMGSY and World Bank Aided Projects for roads in Himachal Pradesh.