

A FOUR WEEK SELF-FINANCED

Summer Training cum Internship Programme in GEOINFORMATICS & CIVIL ENGINEERING

Organized by:

Geographic Information System (GIS) Cell
Motilal Nehru National Institute of Technology Allahabad



(STIPGCE-2019)

10th June – 06th July, 2019

ABOUT MNNIT ALLAHABAD

The Institute was established as Motilal Nehru Regional Engineering College in the year 1961 and was later upgraded as a National Institute of Technology with the status of Deemed University on June 26, 2002. Now, this Institute is known as Motilal Nehru National Institute of Technology Allahabad. The foundation stone of the institute was laid by the first Prime Minister of India, Pt. Jawaharlal Nehru on the May 3, 1961 on a site spreading across 222 acres on the bank of the river Ganga. The Institute has very good infrastructure with state-of-art facilities in all the departments for teaching and research. Institute offers 9 UG and several PG programmes besides MBA, MCA, M.Sc. in Mathematics and Scientific Computing and Masters in Social Work. Doctoral programmes are offered in various disciplines of Technology, Science, Humanities and Management.

ABOUT THE GIS CELL

GIS Cell is an interdisciplinary department of the institute which was established in the year 2006. The Cell offers M.Tech. and Ph.D. programme in GIS and Remote Sensing. The Cell has faculty of its own as well as faculty from various other departments such as Computer Science and Engineering, Electronics Engineering, Civil Engineering and Mathematics, who are the members of GIS Cell. The master's programme in GIS and Remote Sensing was started in the year 2006. The yearly student intake of M.Tech. programme in GIS and Remote Sensing is thirty. The cell also has Ph.D. students under stipendry as well as non-stipendry categories. At present there are nineteen Ph.D. scholars in GIS cell.

ABOUT STIPGCE

The GIS Cell is organizing four-week self-financed summer Training programme. The Course is designed for Undergraduate Students of Engineering Institutions. The course has been designed to cover the practical concepts in the respective fields of Civil Engineering.

SPEAKERS/EXPERTS

Expert faculty members from MNNIT Allahabad will deliver lectures. The experiments will be conducted in the laboratory of GIS Cell & Civil Engineering Department, MNNIT Allahabad.

VENUE

Expert faculty members from MNNIT Allahabad will deliver lectures. The experiments will be conducted in the laboratory of GIS Cell & Civil Engineering Department, MNNIT Allahabad.

ELIGIBILITY

Under graduate students pursuing B.Tech./B.E. in Civil Engineering from the recognized Academic Institutions/Universities. Engineers and Professionals possessing minimum qualification as Bachelor Degree in Civil Engineering are also eligible to apply.

LIMITED SEAT

Seats are limited to 60 (Sixty) participants on first cum first serve basis.

MATERIAL

Programme material will be provided to the students in the form of a CD-ROM.

REGISTRATION FEE

The registration fee for the course is as follows:

(a) Student (Individual)	- Rs. 9,000
(b) Engineers / Professionals / Other	- Rs. 12,000

Hard copy of filled and signed registration form should be sent to the coordinators on or before June 02, 2019 along with the fee as per the above mentioned category through Cheque or Demand Draft in favor of "STIPGCE-2019" payable at Allahabad. Registration fee may also be transferred through NEFT/RTGS/Net-Banking to following account. *The course fee is non-refundable if student is shortlisted for the course.* However, course fee will be refunded in case student is not selected. Scanned copy of the filled form may be emailed to coordinator(s) in advance. Registration fee includes Inaugural tea and Programme Kit.

Registration fee may also be transferred directly or electronically through NEFT/RTGS on following details : Account Name: STIPGCE-2019; Account Number: 718400301000338; IFSC Code: VIJB0007184; Bank and Branch: Vijaya Bank, MNNIT Allahabad, UP.

BOARDING & LODGING

Boarding, lodging, fooding (As per MNNIT Allahabad norms) and travel expenses shall be borne by the participants. Limited shared accommodations may be available in the Hostels/Executive Development Centre of the Institute on first come first served basis. Please note that *accommodation fee is not included in the registration fee.*

IMPORTANT DATES

Last date of registration fee : May 30, 2019
Date of notification of selection : June 02, 2019

ORGANIZING COMMITTEE

Patron:	Prof. Rajeev Tripathi Director, MNNIT Allahabad
Chairman:	Dr. R. P. Tiwari Professor & Chairperson, GIS Cell
Coordinator(s):	Dr. R. P. Singh Professor, CED Dr. Vijay Kumar Assistant Professor, CED Dr. Anupam Rawat Assistant Professor, CED Dr. Ramji Dwivedi Assistant Professor, GIS Cell Dr. Manohar Yadav Assistant Professor, GIS Cell Dr. Sonam Agrawal Assistant Professor, GIS Cell
Advisory Committee:	All faculty Members of GIS Cell & Department of Civil Engineering.

OBJECTIVE : The aim of this training programme cum internship is to disseminate the expertise of the faculty to under graduate students in various fields of Civil Engineering. This training programme will provide the students, engineers and professionals a clear understanding of the basic practices in the different specialization of Civil Engineering.

PROGRAMME CONTENT

GEINFORMATICS

1. Different stages of Geoinformatics, techniques/tools used their applications.
2. Introduction to Topographic mapping, Horizontal and Vertical Geodetic Coordinate Systems
3. Leveling and Contouring, Total Stations, GNSS basic concepts,
4. Introduction to LiDAR technology and its applications,
5. Introduction to raster and vector data, geospatial analysis, mapping, generation of GIS outputs, applications of GIS.

BUILDING & ROAD MATERIALS

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|---------------|-------------------------|----------------------------|--------------------|
| 1. Brick Test | 2. Reinforcing Bar Test | 3. Cement Test | 4. Aggregate Test |
| 5. Mix Design | 6. Non-Destructive Test | 7. Test on Road Aggregates | 8. Test on Bitumen |

GEOTECHNICAL

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|------------------------|------------------------|------------------------------|-----------------|
| 1. Soil Exploration | 2. Soil Classification | 3. Permeability Test | 4. Proctor Test |
| 5. Shear Strength Test | 6. Plate Load Test | 7. Standard Pénétration Test | |

ENVIRONMENT

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| 1. Turbidity, Colour and Conductivity Analysis | 2. pH, Alkalinity and Acidity Analysis |
| 3. Hardness, Chlorides and Residual chlorine determination | 4. Fluorides determination |
| 5. Total, suspended, dissolved, volatile and fixed solids analysis | 6. Biochemical oxygen demand (B.O.D.) analysis |
| 7. Chemical oxygen demand (C.O.D.) analysis | |

For all
Correspondence/Contact:

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