

About us

❖ Delhi Technological University (formerly known as Delhi College of Engineering), accredited with 'A' Grade by NAAC and ISO 9001:2015 certified, is one of the leading engineering institutions of India with over 79 years of glorious tradition behind it.

❖ A Multidisciplinary Centre for Geoinformatics (MCG) at Delhi Technological University is working with the vision to be a world class multidisciplinary centre in the field of geospatial and geoinformatics education, research and consultancy.

Introduction

❖ Geospatial Technologies / Geoinformatics including Earth Observation (EO) Technologies, Remote Sensing (RS), Geographic Information System (GIS) and Global Navigation Satellite System (GNSS), individually as well jointly, are revolutionizing the way various UN mandated SGDs (sustainable developed goals) are being sought to be achieved globally. Human resource development in these fields, therefore, have now become a national priority.

Fees

❖ Currently, there is no fees and the internship is totally free.

Duration

❖ One/two/three months.

About Online Summer/Winter Internships

❖ The aim of this Online Summer/Winter Internships is to enhance the information exchange of theoretical research and practical advancements in the fields of Geoinformatics, GIS, Remote Sensing, and its applications in various fields of engineering. This will encourage professional interaction among students and researchers from academic, industries and other groups. This Online Summer/Winter Internships are open through out the year. Selection will be based on students interests, existing knowledge and skills, expertise available in the Centre and number of already enrolled interns. The conduct will be student centric and aimed to improve research skills

Eligibility

Students/Scientists/Professionals from various universities, colleges and Industry are eligible to enroll for the Online Summer/Winter Internships Program.

Subjects: Civil /Architecture/Agriculture/ Geomatics / Geoinformatics/Computer Science & Engineering / Information Technology/Software Engineering/ Electronics & Communication Engineering / Electrical Engineering / Mathematics / Physics / Geology / Geography

Qualifying Degree/Work:

❖ BE/B.Tech/M.Tech/MCA/M.Sc in any of the above disciplines or MBA or any discipline/work dealing with Geoinformatics/Remote Sensing/GIS.

ONLINE SUMMER/WINTER INTERNSHIPS 2020-21



**Multidisciplinary Centre for Geoinformatics
Delhi Technological University
Shahbad Daultapur, Bawana Road,
Delhi - 110042**



Registration

The link for registration form is -

<https://forms.gle/Nuc9tJevj39Wh5Sr8>

Contact for Queries

Email: kcchtphd@gmail.com

Phone: 09971862304

Email: dwijpandey068@gmail.com

Phone: 085740 20036

Email: gopinadh01@gmail.com

Phone: 09811437108

Note- in case you encounter any difficulty with the registration link, fill up the form in a word file and mail along with all attachments.

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Proposed Areas of Research

- ❖ Optical/Microwave Remote Sensing, GIS, Expert Systems, Image Processing, Target detection.
- ❖ Hyperspectral and Multispectral Object based Classification in Urban Land Cover, Digital Image Processing and its Applications.
- ❖ AI, Machine Learning and Deep Learning applications in geoinformatics.
- ❖ Hyperspectral Remote Sensing, Spectral Index based Target Detection and Classification, Urban Infrastructure and Planning.
- ❖ Snow and Glacier studies using RS and GIS, Water Resources Engineering, Climate Change Studies, Glacial Lake Outburst Flood (GLOF) studies.

Ongoing Projects at MCG

- ❖ Detection and identification of engineered surfaces and objects using Hyperspectral data (DST's Networked Hyperspectral Project).
- ❖ Mapping impervious surfaces from temporal multi-sensor multi-resolution data and its area estimation using super resolution (SAC, ISRO, Ahmedabad).
- ❖ Glacial lake outburst flood (GLOF) studies in Western Himalaya (NMHS - Ministry of Environment).

- ❖ Studies under National Geospatial Chair Professor Scheme (DST, GOI).

Recent Field Works

- ❖ A massive field work was carried out from 29 Sept, 2019 to 11 Oct, 2019 ahead of Ghastoli in general area of Raktakona, Uttrakhand.
- ❖ This Glacial lake is situated at an altitude of 5584 m (Lat/ Long: 30°58'33.26" N, 79°27'33.52" E) and is possibly one of the highest potentially dangerous lake at this altitude.



Actual lake



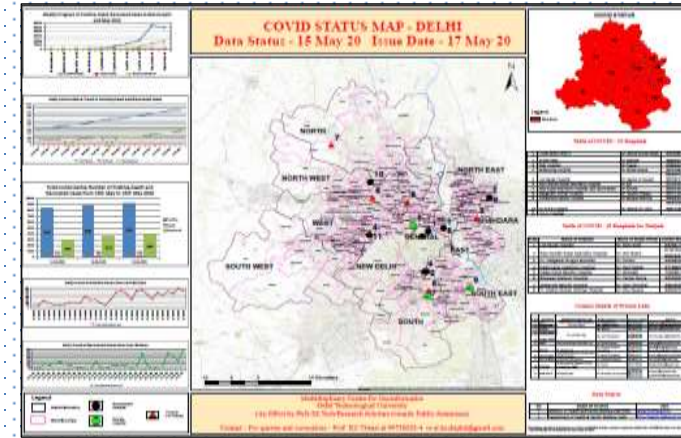
Extent of water in Lake

- ❖ Field spectral data collection under DST-DRDO-NRDMS and SAC ISRO AO projects has been carried out in Udaipur and Jodhpur, Rajasthan region of India during AVIRIS-NG phase 1 & 2 data collection.

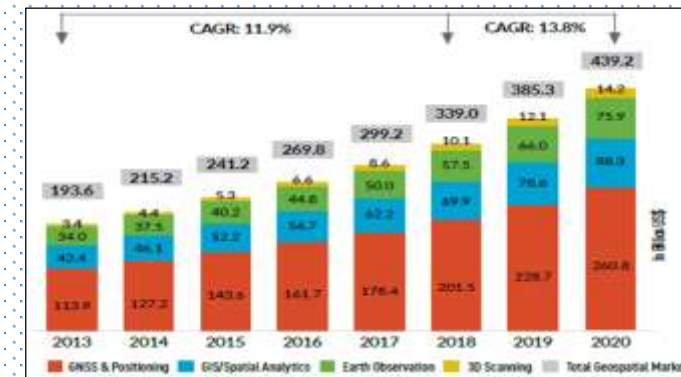


Different Fabric Layout for Spectral Data Collection

Tracking COVID-19 in Districts of Delhi



Global Geospatial Market : Growth Trends



Employment - Indian Geospatial Market

