

**Frequently asked questions on new DIIT program at IIT Kanpur
in
(i) Geodesy (ii) Navigation and Mapping (iii) Remote Sensing and GIS**

Offered by Department of Civil engineering (under Geoinformatics specialization)

The initiation of the DIIT program in three broad areas, namely (i) Geodesy (ii) Navigation and Mapping (iii) Remote sensing and GIS is a step forward towards generating well-trained human resource and industry-academia collaboration these areas.

General Queries

How do I educate myself on Geodesy?

You can visit the website of the National Centre for Geodesy (NCG), IIT Kanpur (<https://www.iitk.ac.in/ncg/>) to know about upcoming training programs, workshops, conferences, etc. You can also communicate with faculty members, research scholars and students associated with the NCG for guidance on reading materials to develop understanding on Geodesy.

What was the reason for launching a diploma course on this subject?

Geodesy is identified as one of the fields of science, where there is a scarcity of well-qualified technical human resources, research activities, and geodetic infrastructure at the national level. The area has several applications such as infrastructure development, climate studies, military, miscellaneous location-based services, large scale mapping for natural resources, agricultural applications using a variety of integrated sensors onboard terrestrial, air-borne, and satellite platforms, disaster studies, etc.

What is the scope of this program?

The proposed one year DIIT program is primarily for **working professionals** in government institutions, industry, faculty members in academic institutions involved in teaching and R&D in Geoinformatics/Geospatial technology. The program would enhance the fundamental knowledge in the area to produce well-trained professionals. The program would also encourage research projects aimed at developing geodetic technology and geodetic and geospatial infrastructure of the country.

In how many streams is the DIIT program offered?

The DIIT program is offered in three broad areas:

- (i) Geodesy
- (ii) Navigation and Mapping
- (iii) Remote Sensing and GIS.

What is the duration of the DIIT program?

One year.

Which department will offer the DIIT program?

The DIIT program will be offered by the Department of Civil Engineering, IIT Kanpur. The Geoinformatics specialization in Civil Engineering will be coordinating the program.

Is DIIT in Geodesy a post graduate program?

Yes, the program is a post graduate program, with an eligibility criterion of Bachelors or MSc in relevant disciplines.

How is this program different from the MTech/MSR offered by the department?

Unlike MTech/MSR programs (typically of two years), which require coursework and completion of *thesis* credits as mandatory requirements, this programme will be for one year with no thesis credit requirements. Instead, the candidate has to earn credits through courses and *project* work.

Admission and Eligibility

When will the next session start for the DIIT program?

The new session of the DIIT program will start from July 2022.

When will the admission process start?

The admission process is likely to start in March-April 2022. Please visit the website of the Department of Civil Engineering, IIT Kanpur for regular updates.

Where do I find information about application forms?

Please keep a tab on the website of the Department of Civil Engineering, IIT Kanpur for updates on DIIT and other academic programmes offered by the department <https://www.iitk.ac.in/ce/>

What are the eligibility criteria for the program?

DIIT program is primarily for *working professionals* in government institutions, industry, faculty members in academic institutions involved in teaching and R&D in Geoinformatics.

The eligibility criteria for the DIIT program are as follows:

1. Bachelor's in Civil Engineering, Computer Science and Engineering, Information Technology, Electrical Engineering, Electronics, Mining, Geoinformatics.

Or

2. MSc in Earth Science and related areas or Geography/Physics/Mathematics/ Environmental Sciences. Candidates with MSc degree must have Mathematics as one of the subjects at BSc level.

Admissions are offered once a year (for the semester starting in the month of July in that year). Shortlisted candidates for D.IIT programme will be called for interview and may in addition be asked to take a written test, likely to be organized in May.

The applicant must have a bachelor's degree in engineering or a master's degree in science with marks/CPI not below 55% marks (or Cumulative Performance Index (CPI) of 5.5 on a 10-point scale) or minimum pass marks (or CPI) whichever is greater. Candidates belonging to the Scheduled Castes/Scheduled Tribes who have a bachelor's degree in engineering or a master's degree in science are eligible to apply irrespective of the marks/CPI.

Is GATE qualification required for the program?

No. the requirement of clearing the GATE exam is waived off for working professionals. However, they will be required to submit necessary documents from their employers (see <https://www.iitk.ac.in/doaa/data/pgmanual-02Sep2015.pdf> for detail).

What will be selection procedure for the admission to DIIT program

Shortlisted candidates for DIIT programme will be called for interview and may in addition be asked to take a written test.

Is there any prerequisite for the program?

It is desirable that applicants should have studied mathematics at the university level, since most of the courses would require good mathematical understanding.

Is computer programming necessary for the program?

Programming is an essential part of the course work and project work. Proficiency in one or more programming languages is desirable.

Can someone who is not a working professional (say, a recent graduate) apply for this program?

The DIIT program is primarily for working professionals. However, limited number of seats may be offered to other candidates satisfying specified eligibility criteria.

For working professionals selected for the program, what documents are required during admission?

Other than the record of academic performance and personal information, the selected candidates will be required to provide a letter from the employer that they have been serving the institution for at least one year and will be granted leave to attend the DIIT programme.

Fees and Financial Assistance

Is financial assistantship available for the program?

For the DIIT program in *Geodesy*, financial assistance of Rs. 12,000 per month will be provided for one year for 12 candidates from the National Centre for Geodesy (NCG) at IIT Kanpur (<https://www.iitk.ac.in/ncg/>).

For the programs in *Navigation and Mapping* and *Remote Sensing and GIS*, all seats are for sponsored candidates.

What would be the fees for the DIIT program?

For information on fees structure, please visit the Dean of Students' Affairs (DOSA) website of IIT Kanpur at <https://iitk.ac.in/dosa/>.

Where do I find additional academic details about the DIIT program?

For academic information, please refer to the PG manual available from the link below:

<https://www.iitk.ac.in/doaa/data/pgmanual-02Sep2015.pdf>