Multidisciplinary Centre for Geoinformatics
Delhi Technological University

Established by Govt of NCT of Delhi Vide Act 6 of 2009

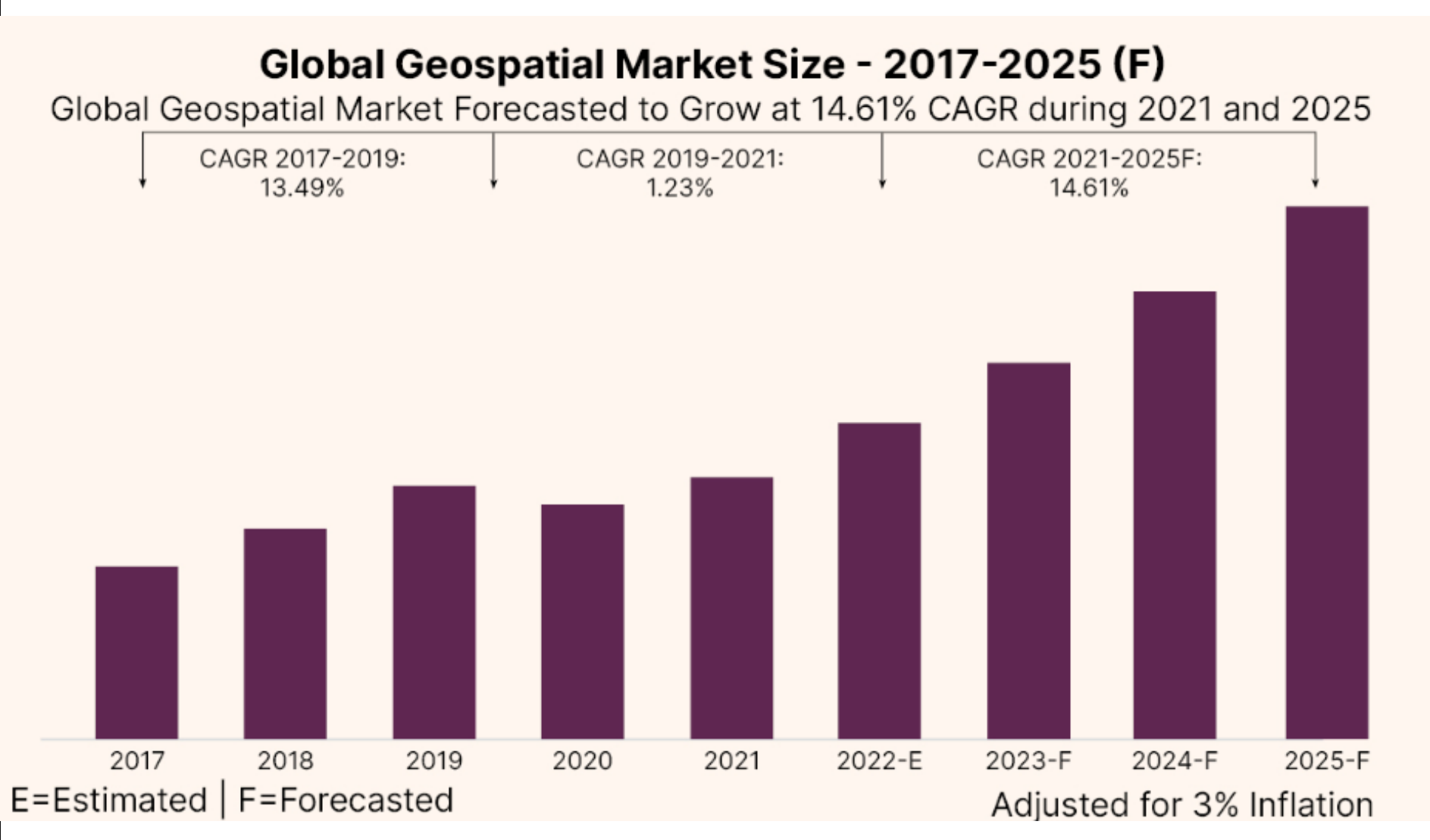Formerly Delhi College of Engineering Since 1941

Shahbad Daulatpur, Bawana Road, Delhi – 110042

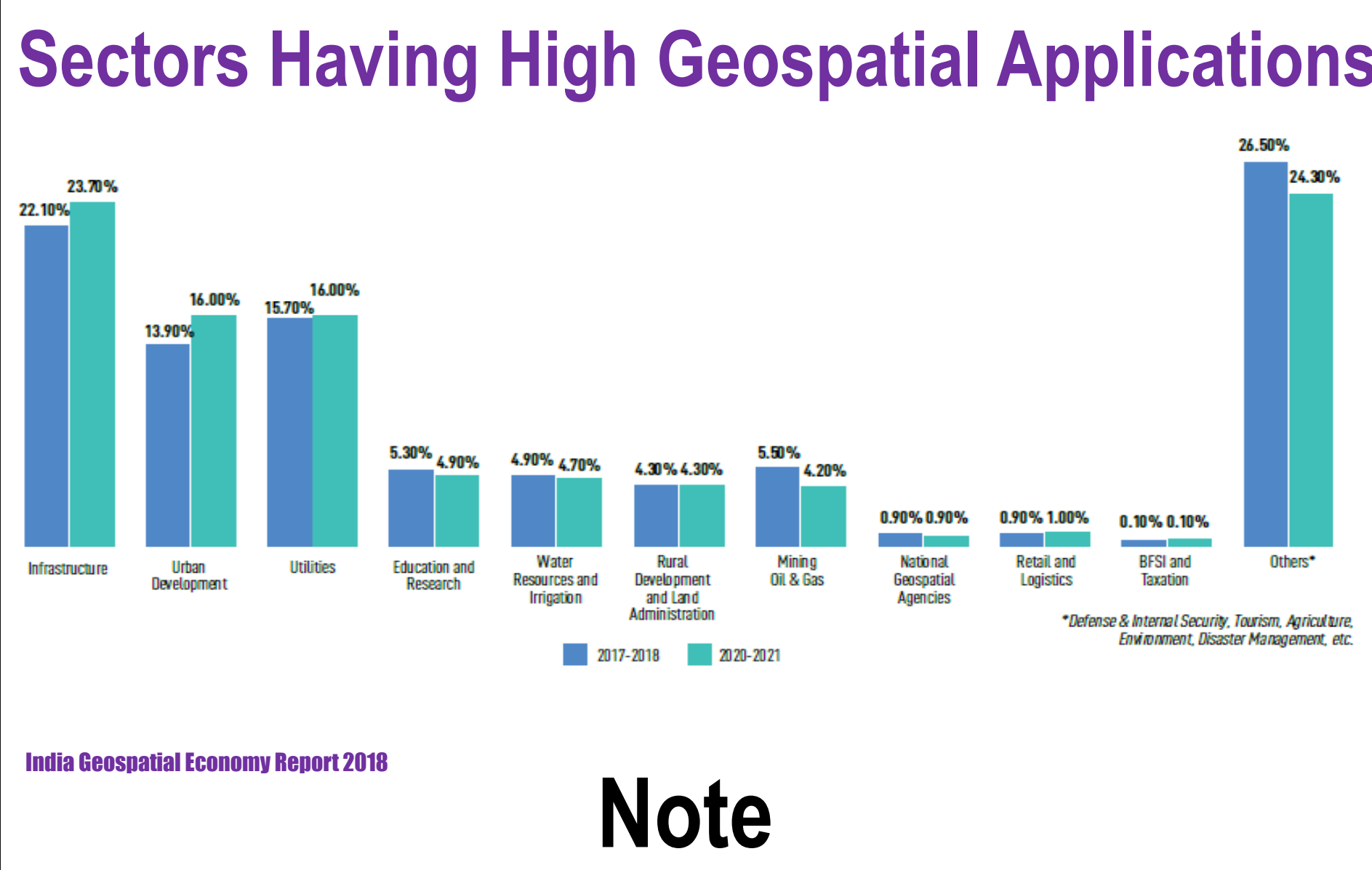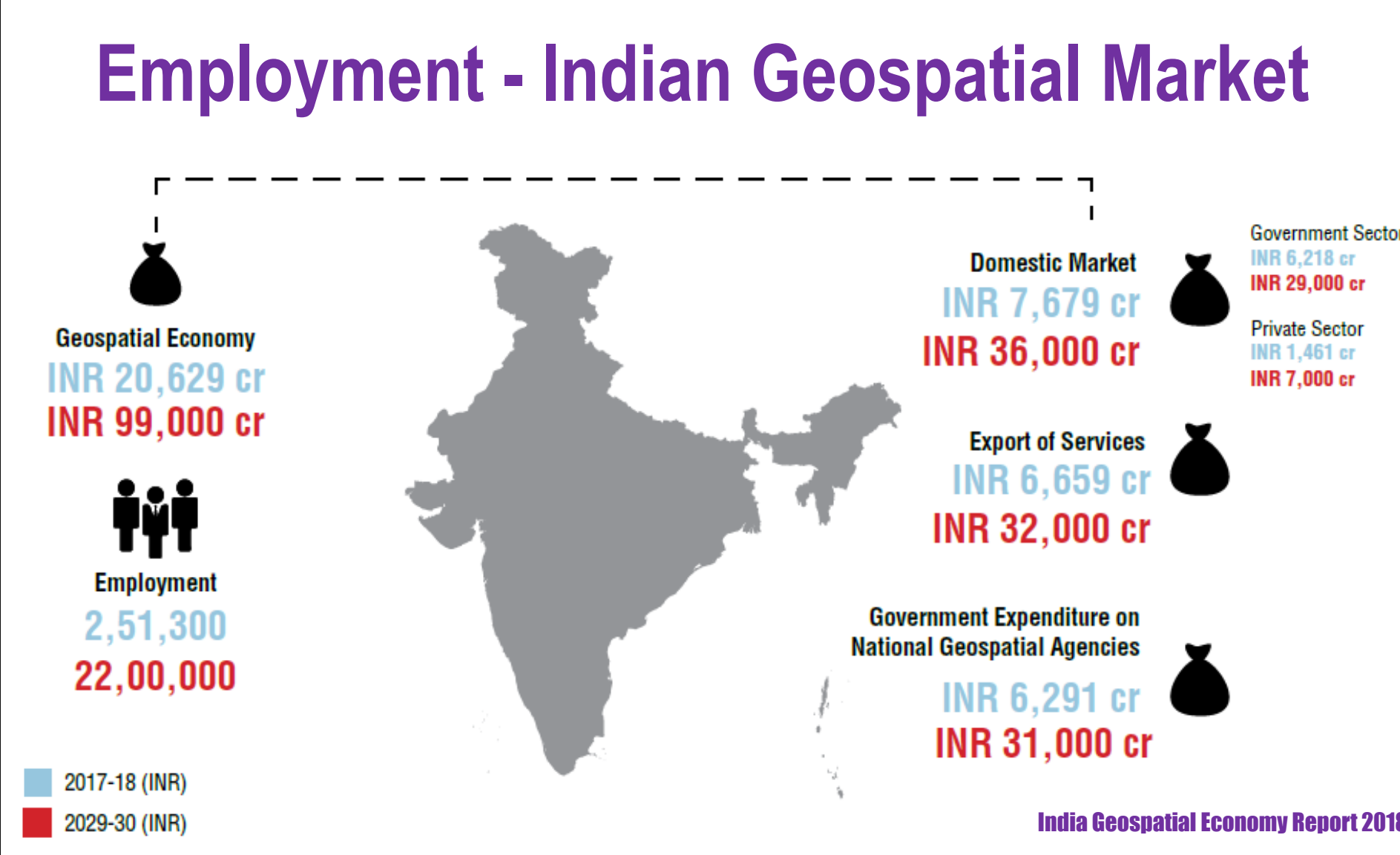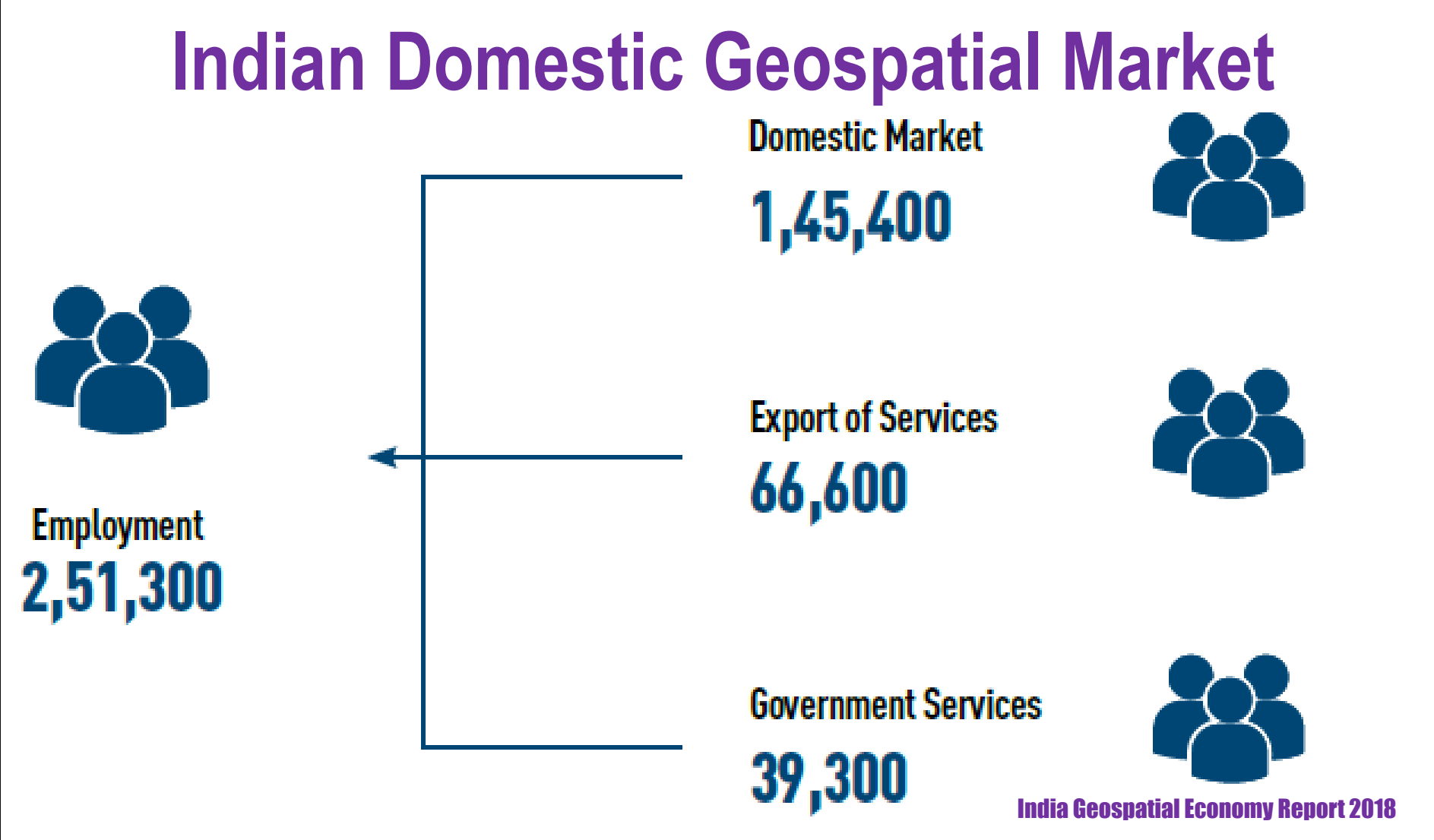
Chandrayaan 2 : Vikram Lander & Pragyan Rover

Global Geospatial Market : Growth Trends

Global Geospatial Market Size - 2017-2025 (F)
Global Geospatial Market Forecasted to Grow at 14.61% CAGR during 2021 and 2025

CAGR 2017-2019: 13.49%   CAGR 2019-2021: 1.23%   CAGR 2021-2025F: 14.61%

2017 2018 2019 2020 2021 2022-E 2023-F 2024-F 2025-F

E=Estimated | F=Forecasted   Adjusted for 3% Inflation

Geospatial Data Industry

Indian Domestic Geospatial Market

Domestic Market **1,45,400**

Export of Services **66,600**

Employment **2,51,300**

Government Services **39,300**

India Geospatial Economy Report 2018

Employment - Indian Geospatial Market

India Geospatial Economy Report 2018

Sectors Having High Geospatial Applications

India Geospatial Economy Report 2018

Note

❖ The university reserves the right to amend/modify/delete any of the information given here without any notice. The decision of the University in this case shall be final and without any legal implications whatsoever.

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.

❖ Geoinformatics is described as the science and technology dealing with the structure and character of spatial information, its capture, classification, quantification, storage, processing, portrayal and dissemination etc including the infrastructure necessary to secure optimal use of this information.

❖ A Multidisciplinary Centre for Geoinformatics (MCG), 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.

Proposed Areas of Research

❖ Defense, security and intelligence.
❖ Water resources and glaciology.
❖ Urban infrastructure development, planning and urban transportation systems.
❖ Earth sciences, oceanography, soil and geosciences (geomorphology & geology).
❖ Environment, forest, atmosphere, meteorology climate change and pollution.
❖ Geohazards and disaster management.
❖ Satellite image processing and photogrammetry.
❖ Geoinformatics, GNSS and geographical information system.

Ongoing/Completed 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).
❖ GLOF studies in Uttarakhand and Himachal
❖ Studies under National Geospatial Chair Professor Scheme (DST, GOI).
❖ Navigation in GPS denied Environment – C3iHub, IIT Kanpur

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

The extent of water in Lake

DGPS Survey

Team members

❖ 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 campaign.

Different Fabric layout for Spectral Data Collection

Important Information

❖ Please visit DTU Website www.dtu.ac.in Regularly for updates, admission portal and admission brochure

Contact Us

Dr. Kailash Chandra Tiwari
Multidisciplinary Centre for Geoinformatics
Delhi Technological University,
Email: mscoordinator@dtu.ac.in , kcchtphd@gmail.com
Phone: 09971862304, Website: dtu.ac.in

M.Sc. (Geospatial Science) Admission

❖ Applications for M.Sc. admission can be filled online on DTU website www.dtu.ac.in

❖ Admission will be done on the basis of CUET-PG (2024) score:

Test Paper Code	CUET Paper Stream/Title
SCQP01 to SCQP30	Science Streams (All subjects)
MTQP01 to MTQP012	M.Tech/Higher Sciences
HUQP08	Humanities (Geography)
COQP02, COQP08, COQP09, COQP10, COQP19, COQP22	Common Subjects

Eligibility Criteria

The educational qualifications and eligibility conditions for admission to M.Sc. (Geospatial Science) Programme are as follows:

- Any student with a minimum 55% marks in Graduation and with a valid CUET scores in the subjects shown above.
- Merit List will be made using a common CUET score across all the streams.

The total number of seat is 30(General – 12, SC- 5, ST- 2 , OBC- 8 and EWS – 3)

Admission Schedule

Activity/Event	Date
Advertisement in Newspapers	10-08-2024
Commencement of Online Registration	10-08-2024
Last date and time for Online Registration	28-08-2024 12:00 midnight
Merit List for 1st round of counselling on the basis of CUET PG score 2024	30-08-2024 6:00 pm
1st round of admission at DTU and preparing waiting list	04-09-2024 10:00 am
Display of Vacant seat for 2nd round on DTU website	04-09-2024 5:00 pm
Spot round of admissions at DTU	10-09-2024
Special spot round (if required)	Date will be announced on website

Delhi Technological University

(Formerly Delhi College of Engineering)

ISO 9001:2015 Certified

Accredited with 'A' Grade (CGPA 3.22 out of 4.0) by NAAC

Admission Brochure

M.Sc (Geospatial Science) Programme

2024 – 2025

Multidisciplinary Centre for Geoinformatics (MCG)
Delhi Technological University
(Established by Govt. of NCT of Delhi vide 6 of 2009)
Shahbad Daulatpur, Bawana Road, Delhi 110042

Website: *www.dtu.ac.in*
e-mail: *mscoordinator@dtu.ac.in*

Admission Schedule with Important Dates For M.Sc (Geospatial Science). Programme*

(For the Final Schedule and Important Dates, visit DTU website: www.dtu.ac.in)

S. No.	Activity/Event	Date
1.	Advertisements in newspapers	10-08-2024 (Saturday)
2.	Commencement of Online Registration	10-08-2024 (Saturday)
3.	Last Day and Time for Online Registration	28 -08-2024 (Wednesday) 12:00 midnight
4.	Merit List for 1st round of counselling on the basis of CUET (PG)-2024 Score for admission to M.Sc.(Geospatial Science) programme.	30-08-2024 (Friday) 06:00 P.M
5.	1st Round of admission at DTU and freezing seats and preparing wait list (Selected candidates are required to report along with original documents and Bank Draft for payment of Fee).	04-09-2024 (Wednesday) 10:00 A.M
6.	Display of vacant seats for 2nd round on DTU website: www.dtu.ac.in	04-09-2024 (Wednesday) 05:00 P.M
7.	Spot round of admissions at DTU (Selected candidates are required to report along with original documents and Bank Draft for payment of a fee.)	10-09-2024 (Tuesday) 10:00 A.M
8.	Special Spot Round (if required)	Date will be announced on the website

*Note: All candidates desirous of seeking admission to M.Sc (Geospatial Science) Programme are hereby advised to read the brochure carefully and visit the website www.dtu.ac.in regularly for updates and other details/ additional information about the entire admission process. The contents and information provided in the Admission Brochure are based on the current instructions/guidelines issued by the Government of NCT of Delhi & CUET (PG) administered by NTA.

Any Modification / Addition / further clarification about eligibility conditions and procedures for admission in the M.Sc. programmes, if required, will be notified on the University Website through separate notification.

Content

M.Sc (Geospatial Science) Admission Brochure 2024-2025

General Instructions

1. Admissions to the M.Sc (Geospatial Science) programme for the academic year 2024-25 in **Multidisciplinary Centre for Geoinformatics (MCG) at the Delhi Technological University (DTU)** will be done through the Common University Entrance Test: **CUET-(PG)-2024 conducted by the National Testing Agency (NTA)**.

2. The admissions will be done purely based on the merit list prepared by CUET-(PG)-2024 rank among the registered students at the DTU portal.

3. **M.Sc (Geospatial Science) programme being offered by MCG, DTU : Academic Year 2024-25**

S. No. (as per CUET Notification)	Programme Name	Test Paper Code 2024	CUET Paper Title
-	M.Sc. (Geospatial Science)	See the list at the End	

4. A separate registration form to apply for M.Sc. (Geospatial Science) programme will be released on the University official website **www.dtu.ac.in.** Candidates are required to fill in their CUET scores obtained in the respective courses in the application form.

5. The registration fee of Rs. 1500/- for GN/OBC/EWS/SC/ST/PwD, is to be paid online through credit card/net banking at the time of registration. After completing the registration form successfully if a candidate does not pay the registration fee, he/she will not be considered for any seat allotment in any round of the counselling. The fee paid for the registration for admission shall not be refundable.

6. It is the responsibility of the candidates to ascertain whether he/she possesses the requisite eligibility and qualifications for admission as specified in this brochure.

7. If a candidate is found ineligible at any stage before or after examination / declaration of result or during any stage of the programme, his / her candidature / admission will be cancelled without any notice and suitable action shall be initiated against him / her including forfeiture of the fee.

8. The applicants are advised to preserve the online registration form as well as acknowledgement details, if any for future reference.

9. While filling up the registration form, the candidate must verify the correctness of all the particulars furnished by him / her. In case any candidate is found to have furnished false information or is found to have concealed any material information in his / her application/registration form, he / she will be debarred from admission and forfeiture of the fee. Further, University reserves the rights to take suitable actions against the applicant in this regard.

10. After the registration form is complete in all respect and all the required documents have been uploaded, the candidate must confirm all the details before final submission. The candidate will not be permitted to edit/change details filled in the registration form once the candidate submits the form.

11. Candidates must ensure that **Mobile Number and Email Address** provided by them must be valid and should belong to the candidate or his/her immediate family members. These details will be used by the University for future communications with the candidate. University would not be responsible for communication not being made due to non-existent/faulty communication details provided by the candidate.

12. It is in the interest of the candidate to remember his/her Password and keep it highly confidential, to avoid misuse by other candidates.

13. Merit list will be declared on the university website only and no separate intimation will be sent to the candidates regarding declaration of merit list and for admission.

14. Final dates of commencement of first and second-round admissions/detailed schedule and last date of admission will be uploaded on the DTU website (**www.dtu.ac.in**).

15. The candidates will be called for admission depending upon the number of seats available in each programme. The offer of admission shall be extended only to the qualified and eligible candidates strictly in order of merit.

16. The list of documents required for admission counselling is mentioned in section 6 of this brochure. **Candidates are advised to bring/upload, wherever specified, all the relevant documents as detailed in this brochure at the time of admission.**

17. The candidate seeking admission under reserved categories has to mandatorily produce the caste/category certificate in his/her name at the time of counselling. The certificate in the name of either of the parents (mother/father) or any other family member is not acceptable and the candidate will not be entitled even for provisional admission. The caste/category certificate must be uploaded in online admission portal as well.

18. It is the sole responsibility of the candidate to prove his / her eligibility for claiming reservation under any of the reserved categories. A candidate who is offered a seat under reserved category / sub-category in any round of seat allotment and fails to produce appropriate document in support, his/her allotted seat will be cancelled and he / she shall be considered for allotment in GENERAL (GN) category in subsequent rounds on submission of a written request by the candidate to University in this regard, subject to eligibility, availability of vacant seats and his/ her merit. University reserves the right to accept or reject such requests.

M.Sc (Geospatial Science) Admission Brochure 2024-2025

19. EWS and OBC (NCL) candidates are required to produce concerned certificate issued after March 31, 2024 from the authorities.

20. Candidates are advised to keep checking the website **www.dtu.ac.in** for further updates regarding the admission process for M.Sc (Geospatial Science) programme.

21. For any queries, please write to us at **mscoordinator@dtu.ac.in**

<div align="center">

Delhi Technological University (DTU)
(Formerly Delhi College of Engineering)

(Established by the Government of NCT of Delhi vide Delhi Act 6 of 2009)

</div>

ABOUT 'DELHI TECHNOLOGICAL UNIVERSITY'

Delhi Technological University (DTU), a leading World Class Technological University, plays a vital role in National and Global Knowledge Network. It is empowering India with the Wings of Knowledge and Power of Innovations. With more than 82 years of tradition of excellence in "Engineering & Technological Education" and "Research & Innovations". DTU came into being after the reconstitution of the Delhi College of Engineering by the Government of NCT of Delhi in 2009, by Act 6 of 2009, passed by the assembly of the NCT of Delhi. It is a non-affiliating, teaching and research University, committed to achieve excellence in Engineering, Science, Technology, Management and allied areas and matters connected therewith or incidental thereto. The university, in its various avatars, namely, the 'Delhi Polytechnic' and 'Delhi College of Engineering' (DCE), has been serving the nation and the global community since its inception in 1941, by providing trained manpower of highest quality in the field of engineering and technology, and, is globally well known for its outstanding education, research and innovations. The University currently offers various inter-disciplinary and industry relevant programmes in Science, Technology, Management, and allied areas at Undergraduate, Postgraduate and Doctoral level. The University has established a strong academia-industry interface and has collaborations with reputed research organizations, industries, and premier institutions. A great many alumni of the institute have excelled at home and abroad and through their contributions to the profession of engineering. They have brought high honour and enhanced the dignity of engineering fraternity being rolled out from institutions in India. The University lays great emphasis on assisting students in the development of national character, self-confidence, leadership and fostering an ecosystem for creativity and imagination.

Location:

Delhi Technological University is situated at Shahbad Daulatpur, Rohini in North - West Delhi, India. It is approximately 32 kilometers from the Indira Gandhi International Airport, New Delhi and the nearest Metro stations are Samaypur Badli/Rithala. Once at Samaypur Badli/Rithala, board local transport, auto or bus to get down at DTU, which is 3-4 kms far from Samaypur Badli/ Rithala Metro Station.

M.Sc (Geospatial Science) Admission Brochure 2024-2025

Vision & Mission of DTU

<u>**Vision**</u>**:**

"To be a world class university through education, innovation, and research for the service of humanity"

<u>**Mission**</u>**:**

1. To establish centres of excellence in emerging areas of science, engineering, technology, management, and allied areas.
2. To foster an ecosystem for incubation, product development, transfer of technology, and entrepreneurship.
3. To create environment of collaboration, experimentation, imagination, and creativity.
4. To develop human potential with analytical abilities, ethics, and integrity.
5. To provide environment friendly, reasonable and sustainable solutions for local and global needs.

Programmes Offered

The University offers 14 Undergraduate engineering programmes (B.Tech.) and three bachelor programmes [i.e. B.Des., BBA, BA (Hons.) Economics], 25 M.Tech. programmes, 5 MBA programmes, 4 M.Sc. programmes, MA (Economics) and M. Des. Programme. The university offers Ph. D programmes in all areas of engineering, science, management, design and economics. The UG and PG programmes of DTU offer the most modern curricula, based on the Choice Based Credit System (CBCS), having rich mix of courses from science, engineering, management, social sciences, humanities, fine arts, liberal arts, classical music, sports, etc. The course curricula have been developed with a view to integrate advancements in science and engineering, while also incorporating industry relevant technologies. To provide further flexibility there is provision for credit transfer and earning credits through massive online courses (MOOCs) from different platforms such as NPTEL, SWAYAM, Coursera and Edx etc. The curriculum is regularly updated keeping in view the new technologies and changes in the needs of industries and society.

Faculty and Research

The university has a very talented pool of experienced, as well as young faculty members who are well qualified in their area of specialization and have very good national and international exposure. To engage the students and faculty in research and innovation the university offers provisions like funding for students' innovative projects, financial assistance to

M.Sc (Geospatial Science) Admission Brochure 2024-2025

students for attending internship overseas, research project grants to all faculty members etc. To celebrate the individual's excellence in research, the university offers **Research Excellence Awards** to researchers in three categories of awards annually, namely, *Outstanding Research Awards, Premier Research Awards,* and *Commendable Research Awards*. The awards are open to all the researchers of DTU. The University provides funds to faculty and students to organize and attend various faculty development programmes, seminars, and conferences.

Ranking and Rewards

The university is having ISO 9001:2015 certification since 27.11.2018, accredited with 'A' grade by NAAC (National Assessment and Accreditation Council) and has been accorded 2(f) and 12-B status by the University Grants Commission (UGC). Many of its UG & PG engineering programmes are also accredited by the National Board of Accreditation (NBA). The University is consistently ranked among best 10 engineering institutions as per the various independent surveys on best engineering institutions of the country. The university has been ranked 8th by India Today's best government engineering colleges ranking 2023. The 2023 NIRF rankings placed DTU at the 29th position among the engineering institutions and at 40 in the categories of universities. DTU has been placed at 801-1000 bracket in the Times Higher Education World University Ranking 2024.

Campus and Infrastructure

DTU has 164 acres of a lush green, tech-savvy main campus, consisting of 16 academic departments, research centers, and residences for students, faculty, and staff. At present the university has around 15,000 students in its undergraduate, postgraduate, and Ph. D programmes. DTU has an EDUSAT Studio utilized for recording lectures, events, and talks. Besides the main campus, the university has another campus in East Delhi, where some of the M.B.A. programmes, B. A (Hons.) Economics and B.B.A. programmes are offered. The newly established East Delhi Campus of DTU has been functional since the 2017-18 academic session. It is located at Vivek Vihar, Phase II, Delhi. This campus endeavours to provide quality education, research, and innovation in the emerging areas of management, relevant to industry and society.

Computer Centre

DTU has a well-equipped centralized computer centre to cater to the needs of students and faculty in the university. It is housed, in a magnificent state-of-the-art building having specialized laboratories to provide variety of platforms and computing environment for UG, PG and research

M.Sc (Geospatial Science) Admission Brochure 2024-2025

students. The centre possesses several servers and over 275 Dell intel core i5 computer systems. In addition, the centre has more than 15 servers hosting different applications such as websites & portals, SPSS, Mathematica, MatLab, DNS, LDAP, proxy, Email services, Network Monitoring System (NMS) etc. and 4 SUN CAD workstations meant for use by UG/PG/PhD students for their projects and research work. The centre is networked through high-end intelligent Juniper/Avaya/CISCO/ Brocade/Ruckus manageable switches and possesses round the clock two leased lines of 10 Gbps link of NKN and 1Gbps link of Reliance Jio with shared bandwidth in different pipes for the Wi-Fi connectivity in the Library, Academic Departments, Administrative Blocks, Sports Complex, Faculty Residence and Hostel blocks of the campus, with internet facilities on all the nodes. It also has the latest versions of compilers, scientific, technical, and engineering software, training kits etc. for the students of different branches of engineering.

Central Library

Delhi Technological University library, with a collection of more than 2,00,000 text and reference books and a large number of e-journals, e-books, manuscripts in digital format, is one of the highly rich engineering libraries in the country. Library provides remote access facility to all its readers by using cloud based remote access software. The library also helps researchers to maintain proper integrity and ethics and provides the facility of similarity check to avoid instances of plagiarism. It has a very active presence on Facebook. Various current awareness services and user information literacy programmes are continually organized throughout the year. The library building is a four storied, aesthetically designed, centrally air-conditioned structure with a seating capacity of 500. Library is updated regularly by way of adding new literature in the form of text books, reference books, reports, proceedings, abstracts & indexes, encyclopaedias, data books, standards (National & International), Journals & database on CD-ROM.

Hostel

Hostel life is one of the most enjoyable and memorable times of one's life. There are 11 boy's hostels and 03 girl's hostels in DTU, besides, one separate hostel for international students (boys). Each hostel in the campus gives each individual ample opportunity to develop various qualities as each hostel is equipped with recreation room, reading room, mess and gymnasium. Additionally, every hostel subscribes to the latest magazines and newspapers for the residents. The hostels are connected to the campus via the campus wide wi-fi network and LAN which enables the residents to browse the internet and access the online library resources for their

M.Sc (Geospatial Science) Admission Brochure 2024-2025

academic and research related work. The information of all available accommodation will be posted on the University website. However, limited seats could be provided inside the University premises. In addition, the mess facility at the University can be availed by all the students.

Centre for extension & field outreach

Centre for Extension and Field Outreach was established in DTU in the year 2018. The various activities/ programme performed by the Centre is to sensitize the students to develop social values, widespread their responsibilities and knowledge in societal issues and problems by making them to involve with the community people. DTU is a Participating Institute under under "Unnat Bharat Abhyan"- a Project of Ministry of HRD, Govt. of India and adopted five villages and are conducting classes in their schools. Directorate of Education, Govt. of NCT of Delhi awarded a Project "Youth for Education" and has launched "Desh Ke Mentor", which is one of the largest mentoring programmes in school education. Centre has also started a certificate course titled as "Basic Computer Course" Under Lab on Wheels (LOW) Scheme for the candidates from the Government Schools of NCT of Delhi or from society. Centre at DTU is coordinating with Delhi Police conducting Skill development programme through one-month basic computer training to Juveniles in conflict with law/ weaker section in Rohini. Centre is regularly organizing Seminars/ online webinars/ workshops/ Awareness programmes etc and is working towards increasing productivity, enhancing skills and abilities, focusing on growth and helping people to work on their own future development.

Innovation and incubation foundation (DTU-IIF)

DTU-IIF is a Technology Business Incubator (TBI) established in 2016 as a non-profit section 8 company. Currently, this TBI is supported by the Government of Delhi and Delhi Technological University. DTU-IIF helps start-up companies and individual entrepreneurs to develop their business ideas by providing a range of services including co-working office space, mentoring support, funding support with venture capital financing, and other supports & resources they need, all under one roof. During last five years, IIF provided 70 lakhs of funds to 56 start-up companies. Also, DTU-IIF promotes the culture of innovation and Entrepreneurship by organizing various webinars/workshops/Hackathons, etc. The Business Review Committee screens the new ideas and recommends incubation at DTU-IIF. The Finance Review Committee recommends the investment of Rs. 7.5 lakh per start-up. Delhi Technological University established Technology Business Incubator (TBI) in the name of DTU Innovation and Incubation Foundation (DTU-IIF). DTU-IIF was incorporated as Section 8 Company on 06.09.2016.

Sports and Other Outdoor Activities

The students of DTU are provided with excellent facilities for indoor and outdoor games. DTU has 4 x 400 m racing track, fields for football, hockey, cricket, courts for volleyball, basketball, tennis, badminton, along with facilities for indoor games. A well-equipped gymnasium is also available in the campus in addition to gym facilities in each hostel. The university has appointed coaches in almost all the games to coach the students and prepare university teams. Students are encouraged to participate in various sporting events and tournaments held in, and around, NCR of Delhi. From academic year 2018-19, as per the revised curriculum, the university offers foundation electives to the students of first year and second year and in these sports have big share of electives.

A large number of bright and capable scholars, having graduated from the Institute, have distinguished themselves by means of their extraordinary achievements in their chosen professions and by their contributions to the society at large.

DCE-DTU Alumi Network

DCE-DTU Alumni are serving leadership positions in many of the best-known companies in India and abroad, in marketing, finance, human resources, information technology, research & analytics, innovation & entrepreneurship. And the worldwide network of illustrious alumni includes world-known personalities like Prof. Vinod Dham (Father of the Pentium Chip), Dr. Raj Soin (Founder, CEO of Soin, and LLC), Prof. D. Yogi. Goswami (Inventor, Author, Entrepreneur and Educator), Dr. Durga Das Aggarwal (President, CEO Piping Technology & Products, Inc). Mr. Vijay Shekhar Sharma, (Founder of Paytm), Sh. Karnal Singh (Former Chief of Enforcement Directorate), Sh. Arun Goyal (Member-CERC & Former Secretary, Cabinet Secretariat).

Alumni have been traditionally contributing generously towards placement opportunities, sponsorships/ Fellowship programs and infrastructural developments of their alma mater. Donations for Raj Soin Hall by Dr. Soin, Clean Energy Research Centre establishment by Prof. Yogi Goswami, and several scholarships for the students of DTU have shown the dedication of the alumni for the betterment of their alma mater.

Events and Festivals

The university organizes annual cultural, literary, sports and technical festivals. These festivals not just provide an opportunity to the students to connect with the professional world, but also display their creative and technical skills in several interesting events and activities organized during the fests. The **ENGIFEST**, one of the most well attended student's cultural event in

northern India and the **YUVAAN**, the literary Fest, is annual cultural extravaganza of the university and offers a good mix of literary, cultural, and entertainment events. The **INVICTUS** is annual technical festival of the university where all technical societies of the university host various technical activities and competition. The **AAHVAAN** is the annual sports fest organized by DTU sports council.

Medical Facilities

DTU has a well-equipped health care centre, where the medical practitioners are available to the students requiring medical attention. The healthcare centre has specialized medical practitioners including ENT, dental care, Physiotherapy, Nutrition, Gynaecology and Obstetrics etc. Further, medical camps are also being organized by the University on regular basis. In addition, Ambulance facility is also available in case of emergency. The University has also tie-ups with the major hospitals of Delhi for emergency cases.

More information about DTU can be accessed at *www.dtu.ac.in*.

1. M. Sc (Geospatial Science) Programme

1.1. Eligibility conditions

The two-year M.Sc (Geospatial Science) degree programme has been structured as per the NEP 2020. Accordingly, the programme has been structured as follows for the session commencing Aug/Sep 2024

   (a) Any student admitted to M.Sc in Geospatial Science (2 years program) on completion of first year will be eligible for Post Graduate Diploma in Geospatial Science if he wishes to quit after one year.

   (b) Any student admitted to M.Sc in Geospatial Science (2 years program) on completion of two years will be eligible for M.Sc in Geospatial Science (2 years program).

The course is designed to provide a basket of 'Core Subject Courses' 'Elective' courses, "Skill Enhancement Courses', 'Ability Enhancement Courses', 'General Electives' etc as per NEP 2020, as an integral component of curriculum, for catering to the varied interests of the students, so that students can develop 'specialization' in the areas of their academic and professional interest. The medium of instruction is English for the programme.

M.Sc (Geospatial Science) Admission Brochure 2024-2025

The educational qualifications and eligibility conditions for admission to M.Sc (Geospatial Science) Programme is given in the Table-1.

Table-1

Educational qualifications and eligibility conditions for M.Sc (Geospatial Science) Admission 2024-25

S. No.	Name of Department	Programme Name	Number of Seats*	Essential qualifications
1.	Multidisciplinary Centre for Geoinformatics	M.Sc. (Geospatial Science) (MSCGS)	30	Graduate degree with 55% or equivalent CGPA provided by the concerned Institute/ University in any of the eligible subjects

* Candidates are advised to visit university website regularly for updates.

In case CGPA or conversion formula has not been provided by the concerned Institute/ University then equivalent CGPA will be computed as per the following

Percentage of Marks= 10 × CGPA

1.2. **Seat Matrix**

(a) Detailed seat matrix indicating seats in various departments under different categories is given in **Table-2.**

(b) Relaxation in minimum percentage requirement will be granted to candidates belonging to SC/ST/PwD categories as given in **Table 3.** The aggregate marks awarded for the qualifying degree will be considered for eligibility. Admission to the M.Sc. programme as given in **Table-1** will be made on the basis of merit in the written test CUET-(PG)-2024 conducted by the NTA.

Final year students who will be completing all the requirements of their qualifying examination including back paper(s)/ supplementary(ies) before the date of admission may also apply. Such candidates will be required to submit a certificate as per the proforma given in **Annexure-1** along with the application form. Such candidates may be admitted provisionally but they will be required to produce the proof of having passed the qualifying degree with the required percentage of marks or CGPA latest by **September 30, 2024**, failing which their admission shall be cancelled and fees will be forfeited.

Table-2

Seat Matrix for M.Sc (Geospatial Science) Programme for the Session 2024-2025

Category	Sub-Category	Department/Centre **Multidisciplinary Centre for Geoinformatics**
GN	**Open**	10
	PwD	1
	Defence CW	1
Total Gen Seats		**12**
SC	**SC**	4
	SC-PwD	0
	Defence CW	1
Total SC Seats		**5**
ST	**ST**	2
	ST-PwD	0
	Defence CW	0
Total ST Seats		**2**
OBC	**OBC**	8
	OBC-PwD	0
	Defence CW	0
Total OBC Seats		**8**
EWS	**EWS**	3
	EWS-PwD	0
	Defence CW	0
Total EWS Seats		**3**
Total Seats		**30**

2. Reservation of Seats for Different Categories and Relaxation in Essential Qualifications

Admissions to the M.Sc (Geospatial Science) programme will be made on All India basis. The university follows the reservations rules of Govt. of NCT of Delhi. In addition to this, 01 (One) seat in each M. Sc. programme of DTU, over and above their normal intake, is earmarked for Single Girl Child (SG) candidate and 01 (one) seat in each M. Sc. programme is reserved for Kashmiri migrant. However, there will be no relaxation in the minimum eligibility criteria for SG and Kashmiri migrants (KM).

Table 3 given below indicates the percentage of reservations for various categories and relaxation in minimum eligibility conditions as applicable for the academic session 2024-2025.

Table-3

Reservation of Seats for Different Categories and Relaxation in Essential Qualifications

S. No.	Category	Seats reserved	Relaxation in Essential qualification
1	Scheduled Castes (SC)	15%	5%
2	Scheduled Tribes (ST)	7.5 %	5%
3	Other Backward Classes (OBC)	27%	NIL
4.	Economically Weaker Section (EWS)	10%	NIL
5.	Sub Category Persons with Disability (PwD)	5%	5%
6.	Sub Category Defence Personal (CW)	5%	NIL

2.1 Reservation Policy:

a) Scheduled Caste (SC): 15 % of the total seats are reserved for Scheduled Caste candidates.

b) Scheduled Tribe (ST): 7.5 % of the total seats are reserved for Scheduled Tribe candidates.

c) Other Backward Class (OBC- NCL): 27% of the total seats are reserved for Other Backward Class (Non-Creamy Layer) candidates.

d)Economically Weaker Section (EWS): 10% of the total seats are reserved for Economically Weaker Section candidates.

Sub-categories namely 'Defence' and 'Person with Disability' are available under each category (General, SC, ST, OBC-NCL, EWS).

e) Defence Personnel (CW): 5% of the total seats (Horizontal) in each category are reserved for candidates belonging to Defence sub-category in the following priority:

> **Priority I** - Widows/wards of Defence Personnel killed in action.

> **Priority II** – Wards of disabled in action and boarded out from service.

> **Priority III** - Widows/wards of Defence Personnel who died in peace time with death attributable to Military Service.

> **Priority IV** - Wards of disabled in service and boarded out from service with disability attributable to military service.

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Priority V - Wards of serving Defence Personnel and ex-servicemen who are in receipt of the following Gallantry Awards:* 1. ParamVir Chakra 2. Ashok Chakra 3. Mahavir Chakra 4. Kirti Chakra 5. Vir Chakra 6. Shaurya Chakra 7. Sena/ NauSena/ Vayu Sena Medal   8. Mention-in-Despatches 9. President's Police Medal for Gallantry 10. Police Medal for Gallantry

Priority VI – Wards of Ex-servicemen.

Priority VII – Wives of:

i. Defence personnel disabled in action and boarded out from service

ii. Defence personnel disabled in service and boarded with disability attributable to military service

iii. Ex-servicemen and serving personnel who are in receipt of Gallantry awards.

Priority VIII – Wards of Serving personnel.

Priority IX - Wives of Serving personnel.

Note: * These medals are awarded for Gallantry as well as for distinguished service. Accordingly, it is notified in correspondence as under: (a) Sena Medal (G)/ NauSena Medal (G)/ Vayu Sena Medal (G) for the medal awarded for Gallantry. (b) Sena Medal (D)/ NauSena Medal (D)/ Vayu Sena Medal (D) for the medal awarded for Distinguished Service. However, for the purpose of reservation, only notification which states that the Medal has been awarded for Gallantry will be accepted and the Medal for Distinguished Services will not be accepted.

f) Person with Disability (PwD): 5% of the total seats (Horizontally)in each category are reserved for candidates belonging to 'Person with Disability' sub-category. Candidate's seeking admission must fulfil the eligibility conditions as detailed earlier. The 5% reservation horizontally for persons with disability may be allocated as detailed in Seat Matrix. The format of disability certificate is available as **Annexure-3.**

Against the seats identified for each disability, of which, one percent each shall be reserved for persons with benchmark disabilities under clauses (a), (b), and (c) and one percent, under clauses (d) and (e).

(a) Blindness and low vision;

(b) Deaf and hard of hearing;

(c) Locomotors disability including cerebral palsy, leprosy cured, dwarfism, acid attack victims and muscular dystrophy;

(d) Austin, intellectual disability, specific learning disability and mental illness;

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(e) Multiple disabilities from amongst persons under clauses (a) to (d) including deaf-blindness.

(f) Physically handicapped applicants are permitted 5% marks of equivalent CGPA relaxation in eligibility requirement in line with the policies of Govt. of NCT of Delhi. They will not be allowed any other relaxation beyond this limit even if they belong to SC/ST category.

g) Kashmiri Migrants (KM) (Supernumerary):

01 (One) seat over and above the total intake of all programme is available.

h) Single Girl Child (SG) (Supernumerary): 01 (One) seat in each programme, over and above their normal intake, is earmarked for Single Girl Child candidate (Girl having no brother and sister alive).

2.2. Seat Conversion rules:

a) After exhausting the complete list of PwD and CW subcategories if there are vacant seats, the vacant seats in these subcategories will be transferred to respective main category (GEN/SC/ST/OBC/EWS).

b) After exhausting the complete list of SC, ST, OBC and EWS candidates, the vacant seats will be treated as unreserved in the Spot Round. The conversion of vacant seats will be done only in the **Spot Round** as per the following procedure:

    i.   If the complete list of ST candidate exhausts, then the remaining vacant seats under this category will be filled from the list of SC, category candidates or vice versa as per merit.

    ii.   If the complete list of SC/ST candidate exhausts, then the remaining vacant seats under this category will be filled by creating equal number of seats in GN, category as per merit.

    iii.   If the complete list of EWS candidate exhausts, then the remaining vacant seats under this category will be filled from the list of GN, category candidates as per merit.

    iv.   If the complete list of OBC candidate exhausts, then the remaining vacant seats under this category will be filled from the list of GN, category candidates as per merit.

3.   Online Registration Process/Counselling Process

For admission to M.Sc (Geospatial Science) programmes 2024, candidates need to register and fill the registration form **ONLINE** through the website **www.dtu.ac.in** after the advertisement.

The guidelines indicated in the Online registration form must be carefully read by all applicants before filling the Online registration form. The registration process is completed only when a print out of the filled **ONLINE** registration form is taken after successful registration and candidates paying ONLINE registration fee, which has to be submitted/uploaded at the time of admission/counselling in the University along with two good quality photographs **(same as uploaded on online application form)** affixed in the appropriate place on the form.

Candidates, whose final year result is awaited, may also fill the online registration form provided he/she has score in CUET exam. Once the candidate has registered and paid the registration Fee, he/ she would be required to upload an Undertaking as per the format given in the Brochure (Annexure-I) while filling up the registration form. The candidates would require to submit their final mark lists/ degree by **September 30, 2024**. Detailed notification in this regard will be published on University website.

3.1. Registration Fee

The registration fee of Rs. 1500/- for GN/OBC/EWS/ SC/ST/PwD, is to be paid online through credit/net banking at the time of registration and choice filling. The registration shall not be complete without the payment of registration fee which is non-refundable and would not be adjusted towards any other fee. Convenience charge (online transactions) will be charged over and above the Online Registration as per the charges for the payment gateway on every online registration fee payment.

3.2. Details of Entrance Test

The admission to the M.Sc (Geospatial Science) programme for the academic year 2024-25 will be based on the rank obtained in the Common University Entrance Test: **CUET-(PG)-2024 conducted by the National Testing Agency (NTA)**. The details of test paper codes and respective programme names are summarised in **Table-4**. Detailed list is given in **Section 8.2** at the end.

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Table-4

Details of Test paper codes and respective programme names as per CUET-(PG) 2024

Programme Name	Test Paper Code 2024	CUET Paper Stream/Title
M.Sc (Geospatial Science)	SCQP01 to SCQP30	Science Streams (All subjects)
	MTQP01 to MTQP12	M.Tech/ Higher Sciences
	HUQP08	Humanities (Geography)
	COQP02, COQP08, COQP09, COQP10, COQP19, COQP22	Common Subjects

PS – A detailed list of subjects and CUET Codes are given at the end in Section 8.2 of this brochure

The students are advised to check the DTU website (www.dtu.ac.in) regularly for updates and additional information.

3.3 Rules for Seat Allotment

a) Merit list will be prepared based on the common CUET (PG)-2024 score/rank among registered students at DTU for all the subject codes.

b) A tentative schedule and the merit list will be displayed on the University's website, **www.dtu.ac.in**. NO separate intimation will be sent to the candidates individually.

c) Merit list will be declared on the university website only and NO separate intimation will be sent to the candidates regarding declaration of merit list and for admission.

d) To resolve and determine inter-se-merit of candidates having same CUET (PG) score, following criterion will be used in the stated order of preference.

\# In unlikely event of their CUET (PG) score is being the same, then preference will be based on the All India Rank.

\# Date of Birth will be compared and elder candidate will be given preference;

\# In highly unlikely event of date of birth is same, then rank will be decided on the basis of marks/ CGPA obtained in the qualifying degree.

3.4 First round of admission

a) The merit list will be displayed for the first round of admissions along with first round admission schedule on the university website **www.dtu.ac.in** and department notice boards.

b) The selected candidates in first round of admission shall pay the requisite fee through online (or) demand draft in Favour of **"Registrar, Delhi Technological University" payable at New Delhi** and submit a copy of fee receipt back to the respective department. Admission shall not be valid without payment of fee and submitting the fee receipt to the department.

c) The candidate shall have to produce the relevant documents in original (as notified in section 6) for verification at the time of admission. If a candidate fails to report for admission on the scheduled date OR he/ she is not able to submit the required documents or fee, he/ she shall forfeit his/her claim for admission and the seat shall be offered to the next eligible candidate in the order of merit. Further, the candidate will not be eligible for subsequent rounds.

d) A candidate can send his authorized representative with all the required documents and fee to report for admission in case he/she is unable to report for admission in person. The authorized representative must come with the authorization letter duly signed by the candidate.

e) The candidate may freeze his/her admission in M.Sc (Geospatial Science) Programme, by filling up a freezing form and submitting the same in the department concerned as per the schedule displayed on the admission website.

3.5 Second/ subsequent rounds of admission (Subject to availability of seats)

a) In case, some seats remain unfilled then second/subsequent round of counselling may be conducted.

b) The list of seats available for admission during second/spot round of admission will be displayed on the DTU admission website as per the schedule given. Candidates are advised to check the DTU website regularly for instructions and Merit list.

c) The second/ subsequent rounds for all the programmes will be held at the same venue i.e. respective department. No separate individual communication will be sent in this regard.

d) The candidate shall have to produce the relevant documents in original (as notified in section 6) for verification at the time of admission. If a candidate fails to report

for admission on the scheduled date OR he/ she is not able to submit the required documents or fee, he/ she shall forfeit his/her claim for admission and the seat shall be offered to the next eligible candidate in the order of merit. Further, the candidate will not be eligible for subsequent rounds. However, such candidates are eligible for spot round of counselling.

e) No admission will be made directly to second or higher semester of any programme.

3.6   Spot round of admission (Subject to availability of seats)

a) The SPOT ROUND shall be conducted depending upon the availability of vacant seats in programmes offered.

b) All the registered and eligible candidates who have not secured a seat till the second round of counselling i.e. candidates who have been allotted but not accepted a seat and those who have not been offered a seat till the second round of counselling, are eligible for spot round. The registered candidates who were allotted seat in some round of counselling, but the seat was cancelled due to some deficiencies (or legitimate reason) are also eligible for this round provided the deficiencies are removed.

c) For detailed information on spot round, candidates are advised to visit the University website **www.dtu.ac.in**.

d) Participating candidates need to report in person at the Spot Round venue (Respective Department Office) as per spot round schedule and mark their attendance within reporting time. No candidates shall be allowed after the reporting time.

e) Candidates who cannot come physically can authorize their parent/relative/guardian/friends as their representative to participate in SPOT round on their behalf and complete admission formalities. No other relaxation will be given in the procedure of admission. Such candidates are also advised to send a copy of authorization letter on admission support email (***mscoordinator@dtu.ac.in)***.

f) Candidates will be called in order of their merit rank and allowed to opt for their choice of seat as per vacant seat availability.

g) The selected candidates in spot round of admission shall deposit the requisite fee through online (or) **demand draft in favour of "Registrar, Delhi Technological University" payable at New Delhi** and submit a copy of fee receipt back to the respective department. Admission shall not be valid without payment of fee and submitting the fee receipt to the department.

h) **Withdrawal of seat is not allowed for SPOT round seats and admission Fee will not be refunded.**

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Special spot round may be conducted by the university after the spot round depending upon the availability of vacant seats.

** *Any change in the counselling schedule due to unforeseen circumstances shall be announced on the university website. Candidates are advised to visit the website regularly.*

4. **Fee Structure:** The detailed fee structure for M.Sc (Geospatial Science) Programme is given in Table-5.

Table-5
Detailed Fee Structure for M.Sc (Geospatial Science) Programme

S.No.	Particulars	Fee in AY 2024 – 2025 1st Year (Rs.)	Fee in AY 2025 – 2026 2nd Year (Rs.)
1.	Tuition Fee	20,000/-	23,000/-
2.	**Non Govt. Component**		
2.1	Student welfare fee (Co-curricular activities, Training & placement, extra curricular activities, Annual gathering, Students welfare, Institutional development, outsourcing, conference, seminar, workshop, innovative projects, skill development activities and miscellaneous expenditure on unspecified items)	10,000/-	10,000/-
2.2	Facilities and services charges (Research initiatives, training programmes, Awards, automation, facilities, entrepreneurship activities and any miscellaneous expenditure on unspecified items)	1,500/-	1,500/-
2.3	Economically weaker section fund	5,000/-	5,000/-
2.4	Examination fee (Examination infrastructure strengthening, expenditure on examination activities, confidential printing etc.)	5,000/-	5,000/-

| 2.5 | DTU Medical facilities and premium amount for Mediclaim of student (per-annum) | 700/- | 700/- |
| | **GRAND TOTAL** | **Rs. 42,200/-** | **Rs.45,200/-** |

The annual fee of the M.Sc (Geospatial Science) programme will have to be deposited online by the candidate at the time of admission on the university website. Candidates must note that the admission fee must be paid in single instalment failing which the admission offer will be withdrawn immediately. Waitlisted candidates (if offered admission during counselling) will be given one-day time to deposit the admission fee.

If the admission fee is not paid within the stipulated date and time, then the offer of admission given to them will be withdrawn automatically and the seat will be offered to the next eligible candidate.

5. Withdrawal / Refund Policy

The University follows the following policy given in **Table-6** for the remittance and refund of fee, if a student chooses to withdraw from programme of study in which he / she is enrolled.

Table-6

Withdrawal and Fee Refund Policy

S. No.	Percentage of Refund of aggregate fee	Point of time when application for withdrawal of admission received.
1.	100%	15 days or more before the formally notified last date of admission
2.	90%	Less than 15 days before the formally notified last date of admission
3.	80%	15 days or less after the formally notified last date of admission
4.	50%	30 days or less, but more than 15 days after formally notified last date of admission.
5.	(NIL)	More than 30 days after formally notified the last date of admission.

Note: Last date of admission is 04.09.2024 for the M.Sc (Geospatial Science) Programme. Any change will be notified separately on DTU website. Candidates are advised to visit DTU website www.dtu.ac.in regularly for notification.

6. Documents Required

Candidates are required to submit the following documents in original along with ONE set of self-attested photocopies of the original documents, two recent passport size photographs, printout of the registration form duly signed by the candidate and annual admission fee receipt paid online on the university website, for the purpose of verification at the time of admission. The original documents will be returned to the students after verification. Candidates are advised to visit University website regularly for notification in this regard.

1. Date of Birth proof /10th certificate.
2. All mark sheets and certificate of qualifying examination (Graduation).
3. If Result for final semester is not declared, then candidate will be required to submit an Undertaking as per format placed at **Annexure-1**.
4. SC/ST/OBC/Persons with disability Certificate(s) whichever applicable, on the basis of which reservation is claimed.
5. Candidates applying for any reserved seat (i.e. EWS, SC, ST, OBC-NCL, SG, CW, KM) must produce the original certificates (as applicable) issued from an approved district authority, at the time of document verification.
6. OBC (NCL) candidates are required to produce a caste certificate issued after **March 31, 2024** from the authorities as mentioned in **Annexure 2**. However, if the certificate is issued prior to **March 31, 2024,** it must be accompanied with an additional certificate regarding the present non-creamy layer status of the candidate, issued by the same competent authority. This additional certificate must have reference of his / her already issued original caste certificate.
7. Candidates applying for admission to seat reserved for Differently Abled Person (PwD) sub-category, the candidate must produce the certificates in original at the time of document verification as per **Annexure-3**.
8. The benefit of reservation under EWS can be availed by persons who are not covered under the scheme of reservation for SCs, STs and OBCs upon production of an Income and Asset Certificate issued by a competent authority based upon the Income and Assets criteria. The details and prescribed format issued by the Competent Authority is detailed at **Annexure-4.**
9. For admission to a seat reserved for Defence sub-category (CW), candidate must produce the following certificates (as applicable), in original, at the time of document verification as per format available at **Annexure-5.**
10. The candidates seeking admission under SG category can submit an affidavit duly attested by competent authority as per **Annexure-6.**

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11. The candidates seeking admission under Kashmiri Migrants (KM)seats must produce the following documents, in original, at the time of document verification:

a. Certificate of registration as Kashmiri Migrants issued by the Relief Commissioner, Jammu or Divisional Commissioner, Delhi to establish the status of the applicant as registered migrants as per **Annexure-7.**

b. Proof of property in Kashmir of the parent of the candidate.

7. ACADEMIC DEPARTMENT DETAILS OFFERING M.Sc (GEOSPATIAL SCIENCE) PROGRAMME

7.1 Multidisciplinary Centre for Geoinformatics

Geoinformatics is described as the science and technology dealing with the structure and character of spatial information, its acquisition, classification, quantification, storage, processing, portrayal and dissemination. It is essentially a multidisciplinary subject with different aspects of this subject dealt by different branches of engineering and sciences. A Multidisciplinary Centre for Geoinformatics (MCG) was established at Delhi Technological University on 5th March, 2019 with the vision to be a world class multidisciplinary Center in the field of geospatial education, research and consultancy.

The Centre has significant achievements in the limited period since its establishment. Some the notable achievements are mentioned here. The Centre was part of the organizing team of 2nd United Nations World Geospatial Information Congress (UNWGIC) held at Hyderabad in Oct 2022. TheActivities of the Centre were reported in DST publication, "*Indian experience in alignment with United Nations-Interpreted Geospatial Information Framework" published during 2nd UNWGIC*. The Centre was instrumental in getting the approval of AICTE Board of PG studies for inclusion of 'Geospatial' subject in GATE wef 2022 and NET Exam. The same has been implemented in GATE wef 2022 and is likely to be implemented in NET Exam too in future. The Centre has MOUs with NTRO, IIT Bombay FOSSE Team and Other Govt and Private Industries for GIS related activities. The students associated with the Centre participated in various research projects which including DSTs AVIRIS data collection campaign, GLOF studies in Uttarakhand and Himachal Pradesh etc.

Research *Areas***:** Defense & Security / Target Detection, Hydrology / Irrigation, Disaster / Floods / Glacial Lake Outbursts, Urban / Environment / Pollution, Agriculture / Crop monitoring etc.

COURSE SCHEME FOR M.Sc. (GEOSPATIAL SCEINCE)

FIRST SEMESTER	SECOND SEMESTER
1. Introduction to geospatial Science, Cognition and Physics of Remote Sensing	1. Introduction to Earth and Environmental Sciences
2. Introduction to Spatial Mathematics, Statistics and Probability.	2. Digital image Processing
3. Introduction to GIS	3. DSE-2/ GEC-2
4. DSE-1/ GEC-1	4. DSE-3/ GEC-3
5. Dissertation-I	5. Dissertation-2

THIRD SEMESTER	FOURTH SEMESTER
1. Introduction to Surveying, Mapping, Geodesy and GNSS	1. Advanced Image Processing and Big Data Analysis
2. Advanced Earth and Environmental Sciences	2. Principles of Optical, Thermal and Hyperspectral Remote Sensing
3. Advanced Spatial Mathematics, Statistics and Probability.	3. Microwave & LIDAR Remote Sensing
4. DSE-4/ GEC-4	4. DSE-5/ GEC-5
5. Dissertation-3	5. Dissertation-4

DEC -3 (Advanced Subject Electives)	DEC -4 (Applications)
1. Advanced GIS and WebGIS 2. Advanced Programming (GEE/Python/MATLAB) 3. Applications of GIS in urban planning/ disaster action plan 4. Applications of GIS in transport planning.	1. Hazard Monitoring & Disaster Management 2. Urban Remote Sensing 3. Agricultural Remote Sensing 4. Hydrology in Remote Sensing 5. GLOF and Landslides 6. Geological Remote Sensing 7. Applications of GIS in public health
DEC -5 (Application Based Electives) 1. Target Detection and Enhancement 2. Weather and Rainfall Prediction 3. Drone/UAV data acquisition and processing 4. Principles of Atmospheric correction and surface Temperature retrieval algorithms	

BASKET OF DEPARTMENT ELECTIVES COURSES (DEC)	
DEC-1(Programming)	**DEC -2 (Advanced Subject Electives)**
1. GEE programming as applied to Geospatial Sciences 2. Python programming as applied to Geospatial Sciences 3. MATLAB programming as applied to Geospatial Sciences 4. R programming as applied to Geospatial Sciences	1. Advanced Hyperspectral Remote Sensing 2. Advanced Geosciences (Geomorphology, Sedimentology, Palaeontology, Mineralogy, Geodynamics, Earthquake seismology etc) 3. Principles of Cartography

In addition to these departmental electives, student can opt for other elective courses depending on his/ her interest offered by any other department offering courses in M.Sc. and B.Tech. programmes.

Further, besides conventional modes of teaching such as lectures, videos, power points and reading materials, Students are encouraged to earn some credits through self-paced custom elearning in the areas of interest through MOOCs, SWAYAM and NPTEL digital platforms.

Candidate will be finally evaluated at the end of the semester IV on the basis of his/her publication (accepted or published in SCI/SCIE journals).

8. Syllabus and Eligible Subjects with CUET Codes for Admissions to M.Sc (Geospatial Science) Programme 2024-2025

8.1 Syllabus for M.Sc (Geospatial Science) Programme

The syllabus for CUET (PG) Exam is being notified by NTA for the eligible subjects which are given in next section.

8.2 Eligible Subjects and CUET Codes

SN	STREAM	ALL/SELECTED SUBJECTS	QP/TEST PAPER CODE		SUBJECT NAME
I	SCIENCE	ALL (30 subjects)	1	SCQP01	Agricultural Science-Agricultural Economics; Agronomy; Entomology; Agricultural Extension & Communication; Genetics & Plant Breeding; Horticulture, Plant Pathology, Plant Physiology; Soil Science & Agricultural Chemistry, Agriculture Technology (Informatics),
			2	SCQP02	Agro-forestry
			3	SCQP03	Microbiology/ Applied Microbiology
			4	SCQP04	Architecture and Planning, Sustainable Architecture, Architecture and Design, Urban & Regional Planning,
			5	SCQP05	Biochemistry, Anatomy, Pharmacology, Bio-Science,
			6	SCQP06	Bioinformatics, Food Science and Nutrition, Bio-Science-Bioinformatics,
			7	SCQP07	Botany, Bio-Science,
			8	SCQP08	Chemistry, Chemical Sciences, Industrial Chemistry etc.
			9	SCQP09	ComputerScience,InformationTechnology,ComputerApplication,BigDataAnalytics,Cyber-Security, Artificial Intelligence and Machine Learning, etc.
			10	SCQP10	Criminology
			11	SCQP11	Environmental Sciences /Studies, Ecology etc.
			12	SCQP12	FoodScience and Technology, Nutrition, Food Processing and Management, Food Safety and

					Quality Control etc.
			13	SCQP13	Forensic Science.
			14	SCQP14	Geology, Earth Sciences, Applied Geology,
			15	SCQP15	Geophysics
			16	SCQP16	Horticulture, Forestry & Biodiversity, Seed Science & Technology, Plant Breeding, Agronomy, Genetics, Fruit Science, Floriculture, Vegetable Science etc.
			17	SCQP17	Life Science- Molecular Biology, Biotechnology, Microbiology, Biochemistry, Botany, Bioinformatics, Molecular Medicine Zoology, Biomedical Engineering & Science, Virology and Immunology, Optometry, Bio-Physics, Genetics, Health Science,
			18	SCQP18	Material Science
			19	SCQP19	Mathematics, Applied Mathematics, Electronics,
			20	SCQP20	Medical Laboratory Technology, Medical Physics etc.
			21	SCQP21	MPT
			22	SCQP22	Nanoscience/Integrative Biosciences
			23	SCQP23	Pharmacy- Pharmacology,PharmaceuticalChemistry,Pharmacognosy,Pharmaceutics, Pharmaceutical Science, Pharmaceutical Analysis etc.
			24	SCQP24	Physics,ComputationalandIntegrativeSciences,Electronics,AppliedPhysics,AppliedPhysics+ Electronics Engineering
			25	SCQP25	Plant Biotechnology
			26	SCQP26	Soil Science- Soil & Water Conservation
			27	SCQP27	Statistics, Applied Mathematics, Statistics & Computing, Data Science and Applied Statistics etc
			28	SCQP28	Zoology, Sericulture, Human Genetics
			29	SCQP29	Atmospheric Science
			30	SCQP30	Animal Science(Poultry)
2	M.TECH/HIGHER SCIEN	ALL 11 subjects	31	MTQP01	Chemical Thermal & Polymer Engineering, Thermal Engineering,

	CES				
			32	MTQP02	Civil, Structural & Transport Engg.
			33	MTQP03	Dairy Technology
			34	MTQP04	DataScience,ArtificialIntelligence,CyberSecurity&ComputerScience,ComputerSciences & Engineering/ Technology, Information Technology etc.
			35	MTQP05	Electronics,CommunicationandInformationEngineering,DigitalCommunication,Micro-Electronics Engg, VLSI Design, Microwave Electronics,
			36	MTQP06	Food Engineering and Technology
			37	MTQP07	MechanicalEngineering,Manufacturing&Industrial,ToolEngineeringetc.
			38	MTQP08	Nano Science/ Nano Technology, Computer Aided Design& Manufacturing,
			39	MTQP09	Nano-electronics/Material Sciences
			40	MTQP10	Electrical, Power, Energy Engineering, Green Energy Technology etc.
			41	MTQP11	Water Engineering and Management, Agricultural Engineering etc.
			42	MTQP12	Textile Engineering
3	**HUMANI-TIES**	**Selected 01 subjects**	43	HUQP08	Geography
4	**COMMON**	**Selected 6 subjects**	44	COQP02	Applied Geography, **Geoinformatics** and **Geographic** Information Systems
			45	COQP08	Commerce, Business Finance, Accounting & Taxation, Economic Administration and Financial Management etc.
			46	COQP09	Disaster Studies
			47	COQP10	Economics, Financial Economics, Business Economics, Rural Economic setc.
			48	COQP19	Public Health
			49	COQP22	Healthcare & Hospital Management

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9. Certificates and Formats

CERTIFICATE FOR APPEARING IN THE FINAL SEMESTER/YEAR EXAMINATION

(Required from candidates who are yet to appear in the qualifying examination)

In connection with the application of Mr./Ms. _____ for admission to PG programme(s) at Delhi Technological University Delhi, I hereby certify that he/she is a *bonafide* student of our institution. He/she is yet to complete the requirements of qualifying examination including theory, practical project examination and back paper(s)/supplementary(is) for B.A./B.Sc. _____ which is to be scheduled later on (Strike out the non-applicable ones and write in the blank space if the degree is not mentioned) and the result is likely to be announced by _____ 2024. The percentage of aggregate marks/CGPA obtained by him/her upto pre final year examination is _____ His/her conduct and character during his/her stay at the University/University has been "GOOD".

Signature of the Principal/Dean/Registrar/

Dy. Registrar /Proctor/Administrative Officer

Name: _____   Seal :_____

Place: _____

Date:_____

UNDERTAKING BY THE CANDIDATE REGISTERED WITHOUT PRODUCTION OF PROOF OF PASSING THE QUALIFYINGEXAMINATION/APPEARED IN THE BACKPAPER(S)/SUPPLEMENTARY(IES) TILL DATE OF REGISTRATION

I, _____son/daughter/ward of Mr./Ms _____ hereby undertake that I have appeared in all the examinations including practicals/projects/theory/back paper(s)/supplementary(ies) before the date of registration and only the result is awaited, which is likely to be declared by _____

Signature _____

Place: ._____   Name ._____

Date: _____   Address _____

AUTHORITIES WHO CAN ISSUE CASTE/TRIBE CERTIFICATE

Scheduled Caste (SC)/Scheduled Tribe (ST) /Other Backward Class (OBC-NCL): For admission to a seat reserved for Scheduled Caste/Scheduled Tribe/Other Backward Class (NCL), candidate must produce a certificate, in original, issued from an approved district authority stating the Scheduled Caste/ Scheduled Tribe/ Other Backward Class (NCL), to which the candidate belongs. A list of approved authorities is given below:

a. District Magistrate / Additional Magistrate / Deputy Commissioner / Collector / Additional Deputy Commissioner / Deputy Collector / 1st Class Stipendiary Magistrate / City Magistrate (not below the rank of 1st Class Stipendiary Magistrate), Sub-Divisional Magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner.

b. Revenue Officer not below the rank of Tehsildar.

c. Sub-Divisional Officer of the area where the candidates and/or his/her family normally resides

d. Administrator/Secretary to Administration/Development Officer (Laccadive & Minicoy Islands).

(Certificate issued by any other authority will not be accepted.)

Prescribed Format for OBC Certificate

FORM OF CERTIFICATE TO BE PRODUCED BY OTHER BACKWARD CLASSES

This is to certify that Shri / Smt. / Km._____ Son /Daughter of Shri / Smt. _____ of Village/Town _____District/Division _____ in the State belongs to the _____Community which is recognized as a backward class under:

(i)Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186 dated 13/09/93.

(ii)Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.

(iii)Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated25/05/95.

(iv)Resolution No. 12011/96/94-BCC dated 9/03/96. (v)Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.

(v)Resolution No. 12011/13/97-BCC dated 03/12/97.

(vi)Resolution No. 12011/99/94-BCC dated 11/12/97.

(vii)Resolution No. 12011/68/98-BCC dated 27/10/99.

(viii)Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.

(ix)Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated04/04/2000.

(x)Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210dated21/09/2000.

(xi)Resolution No. 12015/9/2000-BCC dated 06/09/2001.

(xii)Resolution No. 12011/1/2001-BCC dated 19/06/2003.

(xiii)Resolution No. 12011/4/2002-BCC dated 13/01/2004.

(xiv)Resolution No. 12011/9/2004-BCC dated 16/01/2006 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 16/01/2006.

Shri / Smt. / Kum. _____ and / or his family ordinarily reside(s) in the _____ District / Division of _____ State. This is also to certify that he/she does not belong to the persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt. (SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt. (Res.) dated 09/03/2004.

Dated: _____

<div align="center">
District Magistrate / Deputy Commissioner / Competent Authority

Seal
</div>

NOTE:

(a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

(b) The authorities competent to issue Caste Certificates are indicated below:

(i) District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / DeputyCollector / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).

(ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.

(iii) Revenue Officer not below the rank of Tehsildar and

(iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.

Declaration/undertaking - for OBC Candidates only

I, _____ son/daughter of Shri _____ resident of village/town/city _____ district _____State _____ hereby declare that I belong to the _____ community which is recognized as a backward class by the Government of India for the purpose of reservation in services as per orders contained in Department of Personnel and Training Office Memorandum No.36012/22/93- Estt. (SCT), dated 8/9/1993. It is also declared that I do not belong to persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the above referred Office Memorandum, dated 8/9/1993, which is modified vide Department of Personnel and Training Office Memorandum No.36033/3/2004 Estt. (Res.) dated 9/3/2004.

Signature of the Candidate

Place: _____

Date: _____

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PERSON WITH DISABILITY SUB-CATEGORY

For admission to seat reserved for Differently Abled Person (PD) sub-category, the candidate must produce the following certificates in original at the time of document verification for PD candidates:

a. A certificate of physical disability issued by a duly notified Medical Board of a District/Government Hospital set up for examining the physically challenged candidates under the provision of the Person with Disability (equal opportunities, protection of rights and full participation) Act 1995.The certificate should indicate the extent (i.e. percentage) of the physical handicap and should bear the Photograph of the candidate concerned. The certificate should be countersigned by one of the Doctors constituting the Board issuing the certificates.

b. A certificate duly recommended by Vocational Rehabilitation Centre for the Handicapped, 9-   11 Vikas Marg, Karkardooma, Delhi 110092.

Certificate for Person with Disability
To be issued by Medical Board from Government Hospital

Name of the candidate: Mr./Ms.*_____

Father's Name: _____

Permanent Address: _____

_____

_____

Percentage loss of earning capacity (in words): _____

Whether the candidate is otherwise able to carry on the studies and perform the duties of

an engineer/architect satisfactorily: _____

Name of the disease-causing handicap: _____

Whether handicap is temporary or permanent: _____

Whether handicap is progressive or non-progressive: _____

The candidate is FIT / UNFIT to pursue further studies.

(*Strike out whichever is not applicable)

| **Member** | **Member** | **Principal Medical Officer** |
| | | **(Orthopaedic Specialist)** |

Date: Seal of Office:

NOTE: 1. The medical board must have one orthopaedic specialist as its member.

2. Candidate having temporary or progressive handicap will not be considered against the seats.

CERTIFICATE FOR ECONOMICALLY WEAKER SECTION (EWS)

Government of _____
(Name & Address of the authority issuing the certificate)
INCOME & ASSET CERTIFICATE TO BE PRODUCED BY CANDIDATE SEEKING
RESERVATION UNDER ECONOMICALLY WEAKER SECTIONS

Certificate No. _____   Date: _____

VALID FOR THE YEAR _____

1. This is to certify that Shri/Smt. /Kumari_____

Son /Daughter/Wife of _____ permanent resident of

Village/Street _____ Post office_____District _____

in the State/ Union Territory_____Pin code _____whose

photograph is attested below belongs to Economically Weaker Sections, since the gross annual income*

of his/ her family** is below Rs 8 lakh (Rupees Eight Lakh Only) for the financial year _____.

His/ her family does not own or possess any of the following assets***.

i.   5 Acres of agricultural land and above;
ii.   Residential flat of 1000 sq. Ft. And above;
iii.   Residential plot of 100 sq. Yards and above in notified municipalities;
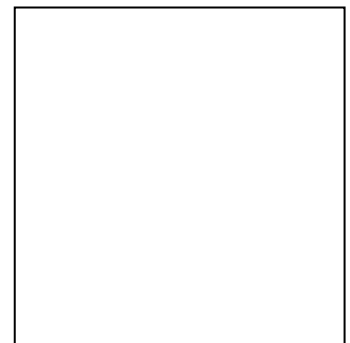iv.   Residential plot of 200 sq. Yards and above in areas other than the notified municipalities.

Shri/Smt./Kumari_____belongs to the caste _____which

is not recognized as a Scheduled Caste, Scheduled Tribe and Other Backward Classes (Central List).

Signature with seal of office: _____

Name: _____

Designation:

Recent Passport size attested photograph of the applicant

*Note 1: Income covered all sources i.e. salary, agriculture, business, profession etc.
**Note 2: The term "Family" for this purpose include the person, who seeks benefit of reservation, his/ her parents and siblings below the age of 18 years as also his/ her spouse and children below the age of 18 years.
***Note 3: The property held by a " Family" in different locations or different places/ cities have been clubbed while applying the land or property holding test to determine EWS status.

INCOME & ASSET CERTIFICATE ISSUING AUTHORITY

The Income and Asset Certificate issued by any one of the following authorities in the prescribed format as given above shall only be accepted as proof of candidate's claim as 'belonging to EWS':-

  i.   District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner,

  ii.   Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.

  iii.   Revenue Officer not below the rank of Tehsildar' and

  iv   Sub-Divisional Officer of the area where the candidate and / or his family normally resides.

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CERTIFICATE IN RESPECT OF DEFENCE CATEGORY (CW)
(CERTIFICATE FOR AVAILING ADMISSION AGAINST DEFENCE QUOTA
OFFICE OF THE ZILA/RAJYA SAINIK BOARD)

This is to certify that Master/ Miss _____ son/ daughter of _____ resident of _____ the above named officer/ JCO/ OR pertains to the category marked below:- (Select one from below)

a. Killed in action on _____ during _____

b. Disabled in action on_____ and boarded out from service on _____ during_____

c. Died in peace time on _____ with death attribute to military service.

d. Disabled in peace time and boarded out from service with disability attributable to military service.

e. Gallantry Award winner (_____)

f. Ex- serviceman.

g. Serving soldier

(Category _____ above)

Mr./ Miss _____ son/ daughter of _____ _____the above named officer/ JCO/ OR

Is eligible for admission in DTU against the Defence quota under priority His/ Her Ex-serviceman widow identify card No. Is DLH-01 _____ .

NO _____/   RSB Secretary

(Round stamp of office)   (Zila/ Rajyasainik board)

AFFIDAVIT FOR SINGLE GIRL CHILD

For claiming admission in this category, the Father/Mother/Guardian (in case parents are deceased) shall have to submit affidavit/ self-attested to this effect duly attested by area District Magistrate/Additional Magistrate/Deputy Commissioner/Collector/Additional Deputy Commissioner/Deputy Collector / Ist Class Stipendiary Magistrate /City Magistrate (not below the rank of Ist Class Stipendiary Magistrate)/Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner.

SPECIMEN OF AFFIDAVIT/SELF ATTESTED FOR ONLY (SINGLE) GIRL CHILD CATEGORY

(on non-judicial PAPER OF Rs. 20/- duly attested by Ist Class Magistrate)

I _____ (name) father/mother of Miss _____ resident of _____ _____ (full address to be given)

do hereby, solemnly declare and affirm as under:

1. That I am a citizen of India.

2. That Miss _____ born on _____ is the only (Single) Girl Child of the deponent.

3. That the deponent has no living male/female child other than the above one.

Place: _____

Dated: _____

DEPONENT

VERIFICATION

Verified that the contents of the above affidavit/self attested are true and correct to the best of my knowledge and belief and nothing has been concealed therein.

DEPONENT

Place: _____

Dated: _____

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CERTIFICATE FOR AVAILING ADMISSION AGAINST KASHMIRI MIGRANT QUOTA
KASHMIRI MIGRANT QUOTA

(To be submitted at the time of admission)

Certified that Shri/ Km/Smt. _____ son/ daughter/wife of _____ resident of _____ is registered as migrant from Jammu and Kashmir. The registration number is _____ dated _____.

It is also certified that Shri/ Km/Smt. _____

Is registered in Delhi/ _____ as J & K Migrant on _____.

Name & Signature of

Deputy Commissioner/ Competent authority

(Office stamp)

Place:

Date:

Note: No Document other than this will be accepted by the University for claiming reservation against the Kashmiri Migrant Seat.

For all the queries related to

M.Sc (Geospatial Science) admission 2024-25

Email: mscoordinator@dtu.ac.in

Chairperson, M.Sc. Admission 2024-25

Delhi Technological University

Shabad Daulatpur, Bawana Road, Delhi-110042

Website: www.dtu.ac.in

M.Sc (Geospatial Science) Admission Brochure 2024-2025

दिल्ली प्रौद्योगिकी विश्वविद्यालय
DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)
(Estd. by Govt. of NCT of Delhi vide Act 6 of 2009)
Shahbad Daulatpur, Bawana Road, Delhi 110042

ISO 9001:2015 Certified   **ACCREDITED with 'A' Grade (CGPA 3.22 out of 4.0) by NAAC**

ADMISSION NOTIFICATION FOR M.Sc in GEOSPATIAL SCIENCE
(2024-2025)

Delhi Technological University (DTU) is globally known for outstanding education, research, and innovations. The University currently offers various interdisciplinary and industry relevant programme in science, technology, management and allied areas at undergraduate, postgraduate and doctoral levels. **Multidisciplinary Centre for Geoinformatics (MCG)** established in 2019 at DTU invites application for its **M.Sc in Geospatial Science** program to be launched wef academic session 2024-2025. The program offers multiple entry/exits as per NEP 2020.

M.Sc. (Geospatial Science) Admission will be done on the basis of the **CUET-PG (2024) Score**. The details for the CUET-PG (2024) (Paper Code) for various disciplines eligible for M.Sc. (Geospatial Science) are mentioned below:

S. No.	Test Paper Code 2024	CUET Paper Stream/ Title	No. of Seats	Eligibility and Selection
1.	SCQP01 to SCQP30	Science Streams (All subjects)	30	• Any student with minimum 55% marks in graduation and with a valid CUET score in the subjects shown. • Merit list will be made using a common CUET score across all streams.
2.	MTQP01 to MTQP12	M.Tech/ Higher Sciences		
3.	HUQP08	Humanities (Geography)		
4.	COQP02, COQP08, COQP09, COQP10, COQP19, COQP22	Common Subjects		

1. Detailed eligibility criteria for Admission to M.Sc. (Geospatial Science) is given in DTU Admission Brochure for M.Sc. (Geospatial Science) Programme available at University Website **https://www.dtu.ac.in.**
2. The non-refundable fees of Rs. 1500/- (Rupees One Thousand Five Hundred Only) is required to be paid online for registration.
3. The Online Registration for M.Sc.(Geospatial Science) Programme starts on 07 Aug 2024.
4. **Last Date of Online Registration for M.Sc. (Geospatial Science) Programme is** 25 Aug 2024.
5. **Online Registration Link**: https://saarthi.dtu.ac.in/admissions2024_25/msc_geo/sourceCode/index.php

For any query write an email to **mscoordinator@dtu.ac.in** or Contact Prof KC Tiwari at **kcchtphd@gmail.com**