

# Delhi Technological University

Established by the Govt. of NCT of Delhi vide Act 6 of 2009  
(Formerly Delhi College of Engineering)

Shahbad Daultapur, Bawana Road, Delhi 110042



ISO 9001:2015 Certified

Accredited with **'A+' Grade**  
(CGPA 3.47 out of 4.0 by NAAC)



## ADMISSION BROCHURE

SESSION  
2026-27

**M. TECH.  
PROGRAMMES**

website: [www.dtu.ac.in](http://www.dtu.ac.in)

# M.TECH. ADMISSION

## SESSION: 2026-27

### ADMISSION SCHEDULE WITH IMPORTANT DATES

(For Final Schedule & Important Dates, visit DTU website: [www.dtu.ac.in](http://www.dtu.ac.in))

S. No	Activity/Event	Valid GATE score holder Candidates	DTU Merit list-based Candidates (Non-GATE)
1.	Advertisement in Newspapers/DTU Social media handles	26.05.26 (Tuesday)	26.05.26 (Tuesday)
2.	Opening of website for Online Registration	26.05.26 (Tuesday)	26.05.26 (Tuesday)
3.	Last Date for Online Registration	23.06.26 (Tuesday)	23.06.26 (Tuesday)
4.	Display of list of eligible candidates on DTU website	01.07.2026 (Wednesday)	01.07.2026 (Wednesday)
5.	Admission test for Non-GATE/Part-Time candidates	NA	11.07.2026 (Saturday)
6.	Result of Admission test	NA	13.07.2026 (Monday)
7.	Display of Merit list based on Admission Test	NA	14.07.2026 (Tuesday)
8.	1st round admission at DTU for all branches (All eligible candidates are required to report along with original documents and bank draft for fee deposit, as detailed at section 6)	07.07.2026 & 08.07.2026 (Tuesday & Wednesday)	21.07.2026 (Tuesday)
9.	Spot Round admissions at DTU (Candidates are required to report along with original documents and bank draft for fee deposit, as detailed at section 6)	To be declared later	To be declared later
10.	Last Date of Admission	08.07.2026 (Wednesday)	21.07.2026 (Tuesday)

**Note:** All candidates desirous of seeking admission to M.Tech Programme are hereby advised to read the brochure carefully and visit the website [www.dtu.ac.in](http://www.dtu.ac.in) regularly for updates and other details/additional information about the entire admission process. The content and information provided in the admission brochure are based on current instruction /guidelines issued by the Govt. of NCT Delhi and DTU. Any modification/addition/further clarification about the eligibility conditions and procedures for admission in the M.Tech programme, if required, will be notified on the university website through separate notification.



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# दिल्ली प्रौद्योगिकी विश्वविद्यालय DELHI TECHNOLOGICAL UNIVERSITY

Established by Govt. of Delhi vide Act 6 of 2009

(Formerly Delhi College of Engineering)



**Prof. Prateek Sharma**  
Vice-Chancellor



## Message from Vice Chancellor

It is my immense pleasure to announce that Delhi Technological University is commencing postgraduate courses admissions for the academic year 2026-27 in May 2026.

Delhi Technological University is globally known for outstanding education, research and innovations. The University currently offers various interdisciplinary and industry relevant programmes in science, technology, management and allied areas at undergraduate, post-graduate and doctoral levels.

Students admitted to DTU through their dedication, discipline and steadfastness can go on, to become professionals and impactful leaders. DTU provides them an environment to shape their talent as DTU ensures that every step of a student's journey is designed keeping in mind the holistic development. This is coupled with a diverse range of extra-curricular activities throughout the year, which help students develop various skills to facilitate them throughout their lives.

Over the years, DTU has established itself as the University of unshakable repute. Hence, getting admission in DTU has scaled great heights on the national and international stages, and continue to make us proud. The conjoined efforts of relentless students, faculty, administration and the staff have preserved and exceptional environment in DTU that allows persistent exchange of information and upholds the unmatched excellence associated with this University for eight decades.

We aim at nurturing the students holistically and endeavour to foster a culture in which virtues and skills are instilled in them, along with a concern for society and its wellbeing.

I send my best wishes to the candidates applying for admissions to the Delhi Technological University.

(Prof. Prateek Sharma)

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**SHAHBAD DAULATPUR, BAWANA ROAD, DELHI-110042, INDIA**  
**PH. : 011-27882284, 27852207 Email: [vcdu@dtu.ac.in](mailto:vcdu@dtu.ac.in), WEBSITE: [www.dtu.ac.in](http://www.dtu.ac.in)**

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## GENERAL INSTRUCTIONS

1. The application forms can be accessed at the web portal of the University website at: [www.dtu.ac.in](http://www.dtu.ac.in).
2. The candidates are advised to go through the Admission Brochure carefully and acquaint themselves with all the requirements with respect to filling up of the Online Application Form.
3. The registration fee of Rs. 1500/- for GN/OBC/EWS/SC/ST/PwD/KM, is to be paid online through credit/debit card/net banking at the time of registration. After completing the application form successfully if 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 application for admission shall not be refundable.
4. It is the responsibility of the candidate to ascertain whether he/she possesses the requisite eligibility and qualifications for admission as specified in this brochure.
5. 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.
6. The applicants are advised to preserve the Online Application Form as well as Acknowledgements if any for future reference.
7. While filling up the application 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 information in his / her application, he / she will be debarred from admission. Further, university reserves the rights to take suitable actions against the applicant in this regard, including forfeiture of the fee.
8. After application form is complete in all respect and all the required documents have been uploaded, 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.
9. 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 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.
10. It is in the interest of candidate to remember his/her Password and keep it highly confidential, to avoid misuse by other candidate.
11. If a candidate wishes to apply for admission in a programme offered by different departments, then he/she will have to register separately in that department by paying a separate online registration fee.
12. Tentative dates of commencement of first and subsequent round admissions are mentioned under "Important Dates Schedule" in this Admission Brochure. Any update/ change will be notified at the DTU website ([www.dtu.ac.in](http://www.dtu.ac.in)).
13. 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.**

14. 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 certificate must be uploaded in online admission portal as well. The NCL/ EWS certificates should be issued after 31<sup>st</sup> March, 2026.
15. 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.
16. For admission in CSE/IT/SWE only one online form has to be filled. Candidates will give their preferences for specialization in M.Tech programmes offered by CSE/IT/SWE. Admission in Programs offered by CSE/IT/SWE departments is only through GATE Score.
17. For any queries, please write to the respective department M.Tech. Coordinator (Refer Table 7 for departmental M.Tech. coordinator email id). For general queries related to M.Tech. admission, please email to [mtechcoordinator@dtu.ac.in](mailto:mtechcoordinator@dtu.ac.in).



# About DELHI TECHNOLOGICAL UNIVERSITY

Delhi Technological University has been a beacon of academic excellence and innovation for the past 85 years. The university has garnered recognition for being an eminent institution, known for its academic research and entrepreneurial excellence in many fields. Delhi Technological University has adopted the principles of knowledge, critical thinking, creativity, and innovation at the core of its education policy, all while embracing integration, access, and inclusivity. With an aim to provide a holistic education, conventional classroom teaching has been merged with innovative methods, fostering curiosity and academic prowess in our students. From its inception as Delhi Polytechnic to its present-day identity as Delhi Technological University, the university has always championed the cause of providing students with a high-quality education that allows them to flourish in their chosen domains. Along with imparting knowledge, the University has achieved pioneering advances in undertaking creative and internationally relevant research and innovation over the years.

With 85 years of its long-established tradition of excellence in engineering & technology education, research and innovations, Delhi College of Engineering, (initially established with the name – Delhi Polytechnic) came into existence in the year 1941 to cater the needs of Indian industries for trained technical manpower with practical experience and sound theoretical knowledge. The institution was set up at the historic Kashmere Gate campus as a follow-up to the Wood and Abott Committee of 1938. It comprised a multi-disciplinary and multi-level institution offering wide-ranging programmes in engineering, technology, arts and sculpture, architecture, pharmacy, and commerce. In 1952, the college was affiliated with

the University of Delhi and started formal degree-level Programmes. The department of Architecture later became the School of Planning and Architecture (SPA), now a Deemed University and Institution of National importance. The department of Arts and Sculpture became the College of Arts, and the departments of Chemical Technology and Textile Technology were shifted to mark the beginning of the IIT Delhi at its new campus at Hauz Khas. Further expanding its academic reach, the Department of Pharmacy evolved into the College of Pharmacy under the Directorate of Training and Technical Education, Delhi. The Department of Commerce was later abolished, and the Faculty of Management Studies of the University of Delhi was established. Delhi College of Engineering is thus the mother institution of several national projects, including IITD, SPA, College of Arts, and even the famous FMS.

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, DCE became Delhi Technological University. It is a non-affiliating, teaching, and research University, committed to achieving excellence in Engineering, Science, Technology, Management, and allied areas. Over its rich history of over 84 years, the institution has been serving the nation and the global community since its inception in 1941, by providing trained manpower of the highest quality in the field of engineering and technology, and is globally well known for its outstanding education, research, and innovations.

DTU remains committed to cultivating a culture where scientific research fuels technological advancement and technological ingenuity enriches scientific exploration so that science and engineering

seamlessly converge. The University is dedicated to nurturing innovation by promoting industrially relevant projects, technology incubation, and research-driven education with the help of a dedicated Incubation and Innovation Foundation. With a strategic focus on cutting-edge research and development, DTU continues to expand its footprint in pioneering innovations, interdisciplinary collaboration, and entrepreneurial ventures.

Upholding and uplifting its long and remarkable history in education and research, the University currently offers various inter-disciplinary and industry-relevant programs in Science, Engineering, Management & Allied areas at the undergraduate, postgraduate and doctoral level. The University has established a strong academia-industry interface and has collaborations with reputed research organisations, industries, and premier institutions. Many alumni of the institute have achieved remarkable success both in India and abroad, bringing honour to the name of the University. Their contributions reflect the strong foundation and values instilled during their time at the University. DTU places great emphasis on nurturing national character, self-confidence, and leadership among its students and fosters an ecosystem that encourages creativity, imagination, and innovation. The University

is committed to developing not only skilled professionals but also responsible, forward-thinking leaders. With its rich legacy and progressive outlook, DTU continues to empower students to make a lasting impact and stay at the forefront of global academic excellence.



## VISION

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

## MISSION

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

## 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.



## Programs Offered

The University offers 17 Undergraduate engineering programmes (B.Tech.) and three bachelor programmes [i.e. B.Des., BBA, BA (Hons.), Economics], 26 M.Tech. programmes, 5 MBA programmes, 5 M.Sc. programmes, & 5 Integrated B.Sc. & M.Sc. Programmes, MA (Economics) and M.Des. Programme. The university offers 28 Ph.D. programmes in all areas of engineering, science, management, english and economics. The UG and PG programmes of DTU offer 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 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 highly qualified in their area of specialization and have very good national and international exposure. To encourage the students and faculty for research and innovation, the university has provisions like funding for students' innovative projects, financial assistance to students for attending internship overseas, research project grant to all faculty members etc. To celebrate the individual's excellence in research, the university offers research excellence awards to researchers in multiple categories of awards annually, namely, Outstanding Research Awards, Premier Research Awards, and Commendable Research Awards, Innovation Awards, Sponsored Research Project Award, Citation Awards, and the Award for Submission of Ph.D Thesis within the Stipulated Period. The awards are open to all the researchers of DTU. In addition, university also recognizes excellence in teaching. The university has been granted with the Technical Education Quality Improvement Program (TEQIP) project by MHRD. The project provides funds to faculty and students to organize and attend various faculty development programs, seminars, and conferences. Further, to strengthen DTU's research ecosystem and promote innovation-driven growth, the University introduced a series of Research and Development (R&D) incentive schemes for faculty members in 2024 under four categories, i.e., Young Faculty Grant, Faculty Interdisciplinary Research Project and Equipment Matching Grant and Multi-Institutional Faculty Interdisciplinary Research Project (MFIRP). The University's h-index increased to 149 (Scopus) this year, with 1,513 Scopus-indexed publications, and 12 patents granted by the Indian Patent Office during the year. A total of 7 sponsored research projects worth 2.63 crore were sanctioned, and a 3 crore project from MeitY was recently awarded. These projects received support from

SERB–DST, IHUB–NTIHAC, IHUB Drishti Foundation, IIT Jodhpur, DRDO, ISRO, and the Ministry of Science and Technology.

## 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) in second cycle and has been accorded 2(f) and 12-B status by the University Grants Commission (UGC). 06 UG & 07 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 10<sup>th</sup> by India Today's Top engineering colleges in India 2025.

The 2025 NIRF rankings placed DTU at the 30<sup>th</sup> position among the engineering institutions and at 42<sup>nd</sup> in the categories of universities. DTU has been placed at 801-1000 bracket in the Times Higher Education World University Ranking 2026.

## Campus and Infrastructure

The university currently has three campuses—the Main Campus at Bawana, with an area of 163.87 acres, the East Delhi Campus with an area of 2.02 acres, and the newly allotted Narela Campus with an area of 47.46 acres.

DTU has 164 acres of a lush green, tech-savvy main campus, consisting of 16 academic departments, research centers, and residence for students, faculty, and staff. At present the university has more than 14,000 students in its undergraduate, postgraduate, and Ph.D. programmes. DTU also has a dedicated studio utilized for recording of lectures, events, and talks. Besides the main campus, the university has another campus located in East Delhi, offering BA (Hons.) Economics, BBA and 4 MBA programmes.

## Computer Centre

DTU has a well-equipped computer centre to cater to the needs of students and faculty of 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 students and research scholars. The centre possesses a number of servers and over 240 intel core i5 computer systems. In addition, the centre has more than 15 server engines hosting different applications such as websites & portals, SPSS, Mathematica, MatLab, Ansys, DNS, LDAP, proxy, Email services, Network Monitoring System (NMS) etc. The centre is fully networked through high-end intelligent network switches, and possesses round the clock 10 Gbps NKN leased line and a 1 Gbps backup leased line in a different pipe for the LAN wired & Wi-Fi connectivity for the academic, administrative, residential and hostel blocks of the campus providing high speed internet facilities on all the nodes. It also has the latest versions of compilers, scientific, technical and engineering softwares for the students of various programmes.

## Library and Knowledge Centre

Delhi Technological University library building is a four-storied, esthetically designed, centrally air-conditioned structure with a seating capacity of 450. DTU Library, with a collection of more than 2,29,155 text and reference books and a large number of e-journals, e-books, and manuscripts in digital format, is one of the highly rich engineering libraries in the country. DTU Library provides remote access facilities to all its readers through cloud-based remote access software. The library also helps researchers to maintain due integrity and ethics by providing the facility of similarity check to avoid instances of plagiarism. It has a very active presence on Facebook. Various current awareness services, monthly new arrivals, and user information literacy programs are continually organized throughout the year.

## Outreach, Extension and Business Incubation Activities

The university has established many centers like Center of Outreach & Extension Activities, Center of Human Resource Development (HRDC) and Equal Opportunity Cell. The center of outreach & extension activities organizes a variety of activities for promoting public awareness, especially for deprived sections of society including awareness programmes on engineering for class X/XI/XII students. The HRDC center aims to upgrade and enhance the skills and knowledge of faculty at DTU. The university has also established the DTU Innovation and Incubation Foundation (DTU-IIF), pursuant to sub-section (2) of section 7 of the Companies Act, 2013 and rule 8 of the Companies (Incorporation) Rules, 2014. The center offers incubation infrastructure, including space, computing resources, connectivity, common tools, and environment for co-working, collaboration, and innovation. Currently, 57 active start-ups are working in the Centre. DTU-IIF has received a project of Rs 5,00,000,00/- from DST.

## Sports and Other Outdoor Activities

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

## Hostels for Men, Women and Health Centre

The University has 09 boys' and 03 girls' hostels to accommodate 1614 boy and 800 girl students. Every hostel has its own common room and gymnasium. The hostels are connected via the campus-wide Wi-Fi as well as wired network, enabling the residents to browse the Internet and access online library resources for their academic and research-related tasks. DTU has a full-fledged health center where services of five medical practitioners and round the clock nursing facilities are available. The university has a health centre with OPD facilities in the area of medicine, ophthalmology, dentistry and physiotherapy.

## Events and Festivals

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

## Placements

DTU has consistently been ranked among top institutes in India in terms of placement and higher studies in the Engineering category. The university students are placed in reputed companies offering a promising and high-profile career in domains like core sector software and IT services, research, consulting and analytics. More than 374 companies visited the campus in last academic year for campus placement

and there were 1850+ offers. The average package for B. Tech is Rs. 15.04 lacs. The highest domestic package is 85 LPA. Some of the top recruiters include Ebullient, Atlassian, Microsoft, Google, Apple, Adobe, Zomato, Cred, Fast Retailing, Intuit, Uber, Texas Instruments, Sprinklr, Qualcomm, GAIL, BEL, Maruti, KPMG, PWC, BAIN, etc.

These leading companies not only offer jobs to the final year students but they also offer paid internships to pre - final year students with high stipends.

## DTU Innovation and Incubation Foundation (DTU-IIF)

Established in 2016, the DTU Innovation and Incubation Foundation (DTU-IIF) is a Technology Business Incubator (TBI) registered as a non-profit Section 8 company. It operates with support from the Government of NCT of Delhi and Delhi Technological University.

DTU-IIF fosters entrepreneurship by providing start-ups and individual innovators with a comprehensive ecosystem under one roof. Key offerings include:

**Infrastructure:** Co-working office space and technical facilities

**Mentorship:** Expert guidance from industry and academic leaders

**Funding:** Seed funding and access to venture capital networks

**Resources:** Legal, IP, and business development support

To cultivate an innovation-driven culture, it regularly organizes webinars, workshops, and hackathons for students, researchers, and aspiring entrepreneurs.

DTU-IIF stands as DTU's flagship initiative to translate ideas into impactful enterprises, bridging academia, industry, and government to nurture the next generation of innovators.

## DCE-DTU Alumni 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. Vinod Dham has sponsored "Centre of Excellence for Semi-conductors and Micro-electronics" to established centralized state of art infrastructure facility for device design / material research / fabrication for cutting edge R&D in Semi-conductors and Micro-electronics.

## Medical Facilities

DTU has a well-equipped health care centre. 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](http://www.dtu.ac.in).

# 1. M.TECH. PROGRAMMES

The university offers 26 M.Tech programmes in various disciplines of Engineering and Technology for the January session as listed below in Table-1.

The Academic curricula are so devised that a student of one discipline can take

some courses of other disciplines offering choice-based credit system (CBCS). Such flexibility helps a student to develop his/her core competence together with the interdisciplinary skills in the area of his/her interest.

**TABLE-1**

S. No.	Name of Department	Programme Name & Code	Number of GATE Fellowships for full time Candidates
1.	Applied Chemistry	1. Polymer Technology (PTE)	13
2.	Applied Physics	2. Material Science & Technology (MST)	25
3.	Biotechnology	3. Bioinformatics (BIO)	25
		4. Industrial Biotechnology (IBT)	30
4.	Civil Engineering	5. Geotechnical Engineering (GTE)	25
		6. Hydraulics & Water Resources Engineering (HRE)	24
		7. Structural Engineering (STE)	25
5.	Computer Science and Engineering	8. Computer Science & Engineering (CSE)	30
		9. Artificial Intelligence (AI)	30
		10. Cyber Security (CYS)	30
6.	Information Technology	11. Information Technology (IT)	25
7.	Electronics & Communication Engineering	12. Microwave and Optical communication (MOC)	13
		13. Signal Processing & Digital Design (SPD)	25
		14. VLSI Design and Embedded System (VLS)	25
8.	Electrical Engineering	15. Control & Instrumentation (C&I)	25
		16. Power System (PSY)	25
		17. Power Electronics and Systems (PES)	30
9.	Environment Science and Engineering	18. Environmental Engineering (ENE)	25
10.	Mechanical Engineering	19. Production Engineering (PRD)	25
		20. Thermal Engineering (THE)	25
		21. Industrial Engineering and Management (IEM)	30
		22. Energy Systems and Management (ESM)	30
		23. Computer Aided Analysis and Design (CAAD)	30
11	Software Engineering	24. Software Engineering (SWE)	25
		25. Data Science (DS)	30
12	Department of Geospatial Science and Technology (DGST)	26. Geo-informatics (GINF)	18

## 2. Educational Qualifications and Eligibility Condition for Admissions

The details of the essential qualifications required for different M. Tech. programmes are given in Annexure-1 for GATE Qualified candidates and in Annexure-2 for Non-GATE candidates. Candidates who possess the minimum educational qualifications are eligible to seek admission to these M. Tech programmes. In addition, candidates of General category must have secured at least 60% marks in qualifying degree or equivalent CGPA provided by the concerned Institute/ University. 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 X CGPA**

Relaxation in minimum percentage requirement will be granted to candidates belonging to SC/ST/PwD/ OBC categories as given in Table 2. The aggregate marks awarded for the qualifying degree will be considered for eligibility.

### 2.1 Full Time Candidates with GATE Score

- a. Admission to M.Tech. programmes leading to M. Tech degree as given in Table-1, will be open to the candidates qualified in GATE on the basis of valid & qualified GATE score only in the subjects as given in **Annexure-1** to prepare the merit list for programmes of a department.
- b. Final year students who will be completing all the requirements of their qualifying examination including back paper(s)/ supplementary(ies) before the date admission may also apply. Such candidates will be required to submit a certificate as per the Performa given in **Annexure-4** 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, 2026**, failing which their admission shall be cancelled and fee will be forfeitted.

- c. Candidates having AMIE/ AMIS/ AMIICHE/AMIIM/Grad IETE, who possess B.Sc. or Diploma in engineering are also eligible to apply for admission to M. Tech. courses.
- d. Detailed Seat Matrix indicating Seats in various departments under different category is available **Annexure-3**.

### 2.2 Full-Time Sponsored Candidates

05 seats (supernumerary) each are available in all the M. Tech. programmes offered by the University under the Full- Time Sponsored category subject to the provisions given below:

- a. Candidate employed in Educational Institutions/Universities, R & D organizations, and Government Department, Public Sector Undertaking and candidates from active industry/ companies of high repute and a medium sized enterprise along with standing commitment to the exemplary standards namely ISO/CMM or similar standard of respective area provided that the applicant possesses the minimum eligibility qualifications for the degree. Minimum qualifications for these candidates is the same as for full time candidates except the requirement of qualifying in GATE examination is waived off. The selected candidates need to submit the minimum one-year completion employment certificate on **September 30, 2026**, failing which their admission will be cancelled and fee will be forfeitted.

- b. Sponsored (full-time) candidate seeking admission to a M. Tech. programme on the basis of study leave, must submit a “Sponsorship certificate” as per Annexure-9 on a proper letter head from the appropriate authority in the organization clearly stating the following:
    1. For the period of his/her studies in the programme, the candidate would be treated as on duty with usual salary and allowances, and
    2. That he/she will be fully relieved and granted study leave for a minimum period of 02 years.
  - c. A few candidates are also admitted through Defence Research & Development Organization Schemes, for which the admission procedure is separate. The candidates who meet the above-mentioned eligibility conditions, along with the minimum educational qualifications as given in Annexure-1 should contact DRDO authorities for sponsorship.
  - d. The merit list will be prepared based on qualifying degree percentage for all candidates who have registered online and fulfills all the eligibility criteria as specified for that programme mode. Admission to the Sponsored Full- Time mode will be made on the basis of Interview/Interaction by the respective department.
- b. The part-time students will be required to attend all lectures, tutorials and practical classes for the courses prescribed for them and must satisfy the attendance requirements. The classes for part- time students will be held along with regular students.
  - c. Status of a part-time student will not be changed from part-time to full-time student. Part-time candidates are required to submit a “No Objection Certificate” as per Annexure-10 on a letter head from the appropriate authority in the working organization clearly stating the following:
    - The candidate is permitted to pursue studies on a part-time basis.
    - That his/her official duties permit him/ her to devote sufficient time for studies.
    - That he/she will not be transferred to any other place during the period of study.
  - d. The merit list will be prepared based on qualifying GATE Score degree percentage for all candidates who have registered online and fulfills all the eligibility criteria as specified for that programme. Admission to the Part - Time mode will be made on the basis of Interview/Interaction by the respective department.

### 2.3 Part-Time Candidates (Three years' duration)

Working professional can also apply in Part Time Mode (Three Years duration) wherein 05 seats (supernumerary) each are available in all the M. Tech. programmes offered by the University subject to the provisions given below:

- a. These candidates must satisfy condition 2.2 (a) as for full time sponsored candidates, with the additional requirement that such organizations must be located within the NCR region.

### 2.4 Full Time NON-GATE Candidates (DTU Merit based)

- a. Candidates not having a valid & qualified GATE Score can also apply for admission to M.Tech Programme except programs offered by CSE, IT, SWE departments and selection will be based on merit list prepared after admission test conducted by DTU. Tentative date for admission test is given in admission schedule.
- b. Details of the eligibility conditions and qualifying degree requirements for Non-GATE candidates are given in the

Annexure-2. Minimum qualifications for these candidates are the same as for full time candidates except the requirement of qualifying in GATE examination is waived off.

- c. The Non-GATE candidate(s) are not eligible to receive any AICTE scholarship/ Govt. fellowship in any of the M.Tech. programme(s). However, university will provide financial assistance of Rs. 7500/- per month to a candidate under the scheme DTU-TA, based on the merit, performance and consistent academic record and requirements in the department. The number of financial assistances under DTU-TA is flexible and the university shall have the final authority in this regard.
- d. Admission to all M. Tech. programmes shall be done on the basis of valid & qualified GATE score. Valid & qualified GATE score holders will be given first preference and then the candidates seeking admission under the non-GATE category will be considered in all M.Tech Programmes except program offered by CSE, IT, SWE departments.
- e. In case seats are vacant and non-gate candidates are available, then admission shall be done through the DTU merit list based on the admission test conducted by DTU. The decision of the university in this regard shall be final. If all the seats in a discipline are filled by the GATE candidates, then no admission will be conducted in that discipline and accordingly no merit list will be displayed for the same.
- f. Syllabus of the DTU admission test for different branches are given at section 7.
- g. Test will be conducted in the following 9 areas i.e., DAC, DAP, DBT, DCE, DEE, DEC, DEN, DME and DGST (**Annexure-2**).

- h. For the purpose of maintaining the transparency a metric that we use is the calculation of percentile which is calculated by factoring in details like the candidate's rank and the number of candidates appeared in that particular programme.

Result will be declared in percentile as per the formula given below:

Percentile =  $(\text{No. of candidates appeared in the admission test} - \text{candidate rank}) / (\text{Total No. of candidates appeared in the admission test in which you have appeared})$

## 2.5. Delhi Technological University -Teaching Assistantship Scheme (DTU-TA)

- a. University provides financial assistance of Rs. 7500/- per month to a candidate under the scheme DTU-TA, based on the merit, performance and consistence academic record. The number of financial assistances under DTU-TA is flexible and the university shall have the final authority in this regard.
- b. Financial assistance in the form of teaching assistantships (referred to as DTU Teaching Assistantship (DTU-TA) is offered to the M. Tech. students and will be awarded semester-to-semester basis for a maximum of four semesters or till the final submission of M Tech. dissertation, which ever in earlier.
- c. These candidates will be required to take academic work load of 6-8hours as assigned by the department such as laboratory classes, tutorials, seminars, research projects or any other work etc. along with their regular academic work related to their own degree programme.
- d. Candidates getting financial support under DTU-TA must not be getting/ claiming any financial support/stipend in any form from any sponsoring agencies. If the candidate does any paid internship, then this financial support under DTU-TA will terminate.

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

Admissions to the PG programmes as mentioned in Annexure-1 and Annexure-2 will be made on All India basis. The university follows the reservations rules of Govt. of NCT of Delhi. Table 2 given below indicates the percentage of reservations for various categories and relaxation in minimum eligibility conditions as applicable for the academic session 2026-27.

**TABLE-2**

S. No.	Category	Seat Reserved	Relaxation
1	SC	15%	5%
2	ST	7.5%	5%
3	OBC	27%	Nil
4	PwD	5% (Horizontal)	5%
5	EWS	10%	Nil

The reservation for persons with disabilities will be implemented department wise. Candidates seeking admission must fulfil the eligibility conditions as detailed earlier. The 5% reservation horizontally in seat matrix for persons with disability may be allocated as follows.

- The stipend for the assistantship shall be paid at the approved rates as notified by the University from time to time.
- In case of unsatisfactory performance of the candidate in discharging the academic duties assigned by the department or poor academic performance, the University may discontinue the financial assistance on the recommendation of concerned Head of the department.
- The University reserves the right to terminate the DTU-Teaching Assistant (TA) anytime without any notice on unsatisfactory report of the assigned work / teaching duties carried out by the candidate.

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).

- Blindness and low vision;
- Deaf and hard of hearing;
- Locomotor disability including cerebral palsy, leprosy cured, dwarfism, acid attack victims and muscular dystrophy; Autism, intellectual disability, specific learning disability and mental illness;
- Multiple disabilities from amongst persons under clauses (a) to (d) including deaf-blindness.
- 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.

#### Formula for conversion of seats

If the seats remain vacant in some specific categories, with no waiting list available in that categories, the seats shall be converted as per the details given below on the day of spot round of counselling.

**TABLE-3**

Existing Seats	Seats converted into
(PwD) seat of GN/OBC/SC/ ST Categories	GN/OBC/SC/ ST Category (i.e. in respective categories)
OBC Seat	GN Seat
SC Seat	ST Seat
ST Seat	SC Seat
EWS	GN Seat

#### Kashmiri Migrant Candidates

01 seat (supernumerary) each is available in all the 26 M.Tech programmes offered by the University. There will be no relaxation in the minimum eligibility criteria. The merit will be made among the Kashmiri migrant applicants on the basis of GATE score.

## 4. Application Process

For admission to M. Tech programmes 2026-27, all candidates need to register and fill the application ONLINE only by accessing **www.dtu.ac.in** from May 26, 2026 to June 23, 2026. The guidelines indicated in the online application form must be carefully read by all applicants before filling the application form. The application process is completed only when a print out of the filled ONLINE application form is taken after paying online the registration fee. The candidate must bring a duly signed copy of the same along with two good quality photos (**same as uploaded on online application form**) affixed in the appropriate place on the form on the day of counselling.

Candidates whose final year result is awaited, may also fill the online application form. Once the candidate has registered and paid the registration fees, he/she has to submit the final year result to Academic PG section office. The admission will be cancelled, in case the candidate fails to submit the final year result by 30 September 2026.

Candidates are requested to ensure that they must fulfil all such requirements before filling and applying for such programmes as their choices. Incomplete application due to any reason is liable for rejection by the University. In this regard, no communication will be entertained.

### 4.1 Application Fee

The registration fee of Rs.1500/- for all categories is to be paid online through credit/debit card /net banking at the time of registration and choice filling. charge (online transaction) will be extra as per banking gateway on every online registration fee payment.

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.

A convenience as per banking gateway on every online registration fee payment.

### Full Time GATE CANDIDATES

If a candidate wishes to apply for admission in a programme offered by different departments, then he/she will have to register separately in that department by paying a separate online registration fee. However, for admission in various programmes offered by CSE/IT/SWE only one online form has to be filled.

### Full Time NON-GATE CANDIDATES-

If a candidate wishes to apply for admission in a programme offered by different departments, then he/she will have to register separately in that department by paying a separate online registration fee and candidates can appear in the respective admission test as per the schedule. However, there is no admission test in NON GATE category in various M.Tech Programmes offered by CSE/IT/SWE departments.

## 4.2 Rules for Seat Allotment

### A. For M.Tech Full Time Programme (With Valid & qualified GATE Score)

- Merit list will be prepared on the basis of GATE score.
  - To resolve and determine inter-se-merit of candidates having same GATE score, following criterion will be used in the stated order of preference.
1. Candidates having GATE score in 2026 will be given preference over candidates having score of 2025 or 2024.
  2. Candidates having GATE score in 2025 will be given preference over candidates having score of 2024.
  3. If the year of GATE score is same, then preference will be given to that candidate who has obtained higher GATE marks out of 100.

4. In unlikely event of their GATE marks out 100 and the year of GATE score being the same, then preference will be based on the All-India Rank (AIR)
5. In highly unlikely event of candidates having same GATE Year, GATE marks out of 100, and AIR, then Date of Birth will be considered. Elder candidate will be given preference.
6. In highly unlikely event of Date of Birth is same, then rank will be decided on the basis of marks/CPGA obtained in the qualifying degree.

### **B. For M.Tech (Sponsored Full-Time) Mode**

The merit list will be prepared based on qualifying degree percentage for all candidates who have registered online and fulfills all the eligibility criteria as specified for that programme. Admission to the Sponsored Full - Time Mode will be made on the basis of Interview/Interaction by the respective department.

In case CGPA or conversion formula has not been provided by the concerned institute/university, then equivalent percentage of marks would be computed as per the following formula:

#### **Percentage of Marks=10 X CGPA**

- In highly unlikely event of candidates having same percentage of marks in the qualifying degree, then Date of Birth will be considered. Elder candidate will be given preference.
- In highly unlikely event of candidates having same Date of Birth, then marks in Class- XII will be considered.
- The selected candidates need to submit the minimum one-year completion employment certificate by 30<sup>th</sup> September, 2026.

In case, the candidate fails to submit the one-year completion employment certificate by the above said date, his/her admission will stand cancelled.

### **C. For M. Tech (Part-Time) Mode**

The merit list will be prepared based on qualifying degree percentage for all candidates who have registered online and fulfills all the eligibility criteria as specified for that programme. Admission to the Part - Time mode will be made on the basis of Interview/Interaction by the respective department.

In case CGPA or conversion formula has not been provided by the concerned institute/university, then equivalent percentage of marks would be computed as per the following formula:

#### **Percentage of Marks=10 X CGPA**

- In highly unlikely event of candidates having same percentage of marks in the qualifying degree, then Date of Birth will be considered. Elder candidate will be given preference.
- In highly unlikely event of candidates having same Date of Birth, then marks in Class- XII will be considered.
- The selected candidates need to submit the minimum one-year completion employment certificate by 30<sup>th</sup> September, 2026.

In case, the candidate fails to submit the one-year completion employment certificate by the above said date, his/her admission will stand cancelled.

### **D. For M. Tech (NON-GATE Full-Time) programmes**

- The short listing of applications possessing the minimum educational qualifications, for the purpose of admission test will be done by DTU. The entrance test will be of 60 minutes duration comprising of 40 multiple choice questions. The cut off for the same will be decided by the University.
- The mode of examination shall be Computer Based Test at DTU Campus.
- Merit list for each programme will be made based on the percentile score earned by the candidate in the admission test.

- In case of a tie of percentile, the percentage of marks earned in B.Tech. will be considered. Candidates with highest percentage of marks will be given preference.
- In highly unlikely event of candidates having same percentage of marks in the qualifying degree, then Date of Birth will be considered. Elder candidate will be given preference.
- In highly unlikely event of candidates having same Date of Birth, then marks in Class- XII will be considered.

Admission to all M. Tech. programmes shall be done on the basis of valid & qualified GATE score. Valid & qualified GATE score holders will be given first preference and then the candidates seeking admission under the non-GATE category will be considered in all M.Tech Programmes except program offered by CSE, IT, SWE departments.

- In case seats are vacant and non-gate candidates are available, then admission shall be done through the DTU merit list based on the admission test and who have marks above the cutoff marks as decided by the university. The decision of the university in this regard shall be final. If all the seats in a discipline are filled by the GATE candidates, then no admission will be conducted in that discipline and accordingly no merit list will be displayed for the same.

### 4.3 First Round of Admission

- a. The list of selected/eligible candidates will be displayed for first round of admissions along with first round admission schedule on the university website [www.dtu.ac.in](http://www.dtu.ac.in) and department notice boards. In case some seats remain unfilled then spot round of counselling may be conducted.
- b. The selected candidates in first round of admission shall deposit the requisite

fee as per the given schedule through DD 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 fee receipt to the department.

- c. The candidates shall have to produce the relevant documents (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 is unable to report for admission in person. The authorized representative must come with the duly signed authorization letter.
- e. The candidates may freeze their admission in a particular M. Tech. programme by filling up a freezing form and submitting the same in the department concerned as per the schedule displayed on the admission website. All such candidates who have frozen their admission in a particular programme will not be considered for automatic upgradation in other programmes.
- f. If a candidate is upgraded to another programme which is offered by a different department then he/she will have to take an NOC from the parent department and deposit the original fee receipt along with the other documents in the new department. He/she will not have to deposit fresh fee for the admission in the new department.

#### 4.4 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 in the first round of counselling i.e. candidates who have been allotted but not accepted a seat and those who have not been offered a seat in the first 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 deficiency (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 (**mtechcoordinator@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 as per the given schedule through **DD 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 seat and admission Fee will not be refunded.**

**\*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.**

#### 4.5 Note

- i. If admissions made in any M.Tech. programme are less than 1/3 of the total seats as approved by AICTE in the respective branch, then the branch will remain suspended for the respective Academic Year.
- ii. In such a case i.e. where admissions made are less than 1/3, the students have the provision to transfer their admission subject to their eligibility and availability of seats in the respectively.
- iii. In case, the vacant seats are not available in the desired M.Tech. programme, 100% of the fee shall be refunded.
- iv. In order to calculate 1/3 of the seats, the value would be rounded down i.e. if the approved seats as per AICTE is 25, then the 1/3 value- would be calculated as 8.33 which will be treated as 8.

## 5. Fee Structure

The annual fee of the M. Tech programme will have to be deposited the candidate at the time of admission in the form of a DD drawn in favour of the “Registrar, Delhi Technological University payable at New Delhi”.

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, then the offer of admission given to them will be with drawn automatically and the seat will be offered to the next eligible candidate.

The detailed fee structure is given below:

**TABLE-4**  
**Master of Technology (M. Tech) Full Time/Sponsored Full Time**

S. No.	PARTICULARS	AY 2026-27 1 <sup>st</sup> Year (Rs.)	AY 2027-28 2 <sup>nd</sup> Year (Rs.)
1.	Tuition Fee	61,300/-	63,300/-
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, Misc. Expenditure on Unspecified Items)	18,000/-	18,000/-
2.2	Facilities & Services Charges (Research initiatives, training programmes, Awards, automation, facilities, entrepreneurship activities and any misc. expenditure on unspecified items)	25,000/-	26,500/-
2.3	Economically weaker section fund	5,000/-	5,000/-
2.4	Examination fee (Examination Infrastructure strengthening, expenditure on examination activities, confidential printing etc.	17,000/-	17,000/-
2.5	DTU Medical facilities and premium amount for medical claim of student (per annum)	700/-	700/-
2.6	Alumni Association life membership, registration fee (one time, non-refundable)	1000/-	
	<b>GRAND TOTAL</b>	<b>1,28,000/-</b>	<b>1,30,500/-</b>

**TABLE-5**  
**Master of Technology (M. Tech) Part Time**

S. No.	PARTICULARS	AY 2026-27 1 <sup>st</sup> Year (Rs.)	AY 2027-28 2 <sup>nd</sup> Year (Rs.)	AY 2028-29 3 <sup>rd</sup> Year (Rs.)
1.	Tuition Fee	61,300/-	61,300/-	63,300/-
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, Misc. Expenditure on Unspecified Items)	18,000/-	18,000/-	18,000/-
2.2	Facilities & Services Charges (Research initiatives, training programmes, Awards, automation, facilities, entrepreneurship activities and any misc. expenditure on unspecified items)	25,000/-	25,000/-	26,500/-
2.3	Economically weaker section fund	5,000/-	5,000/-	5,000/-
2.4	Examination fee (Examination Infrastructure strengthening, expenditure on examination activities, confidential printing etc.	17,000/-	17,000/-	17,000/-
2.5	DTU Medical facilities and premium amount for medi-claim of student (per annum)	700/-	700/-	700/-
2.6	Alumni Association life membership, registration fee (one time, non-refundable)	1000/-		
	<b>GRAND TOTAL</b>	<b>1,28,000/-</b>	<b>1,27,000/-</b>	<b>1,30,500/-</b>

### Withdrawal / Refund Policy

The University follows the following policy 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**

S. No.	Percentage of Refund of aggregate fee*	Point of Time when Notice of withdrawal of admission is served to HEI
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 formally notified last date of admission.
4	50%	30 days or less but more than 15 after formally notified last date of admission.
5	00%	More than 30 days after formally notified last date of admission

**\*(Inclusive of Tuition fees and Non Govt. Component).**

**Note: Last date of admission is 08.07.2026 for GATE candidates and 21.07.2026 for Non GATE candidates.** Any change will be notified separately on DTU website. Candidates are advised to visit DTU website [www.dtu.ac.in](http://www.dtu.ac.in) regularly for notification.

## 6. Documents Required

The candidates should report at the venue mentioned by the respective departments on the specific date and time for admission round in person (or through an authorized representative) along with the following original documents and one set of self-attested photocopies, two photographs, printout of the registration form and demand draft for the annual fee made in the favour of “Registrar, Delhi Technological University payable at New Delhi”. The entire process can be converted into online mode if an unavoidable situation like Covid-19 arises. Candidates are advised to visit University website regularly for notification in this regard.

- a. Date of Birth proof
- b. All mark sheets and certificate of qualifying examination (Graduation).
- c. If result for final semester is not declared, then candidate will be required to submit an Undertaking as per format placed at **Annexure-4**.
- d. SC/ST/OBC/Persons with disability Certificate(s) whichever applicable, on the basis of which reservation is claimed.
- e. OBC (NCL) candidates are required to produce a caste certificate issued after March 31, 2026 from the authorities as mentioned in **Annexure-5**. However, if the certificate is issued prior to March 31, 2026, 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.
- f. 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-6**.
- g. EWS Income and Asset certificate issued by the Competent Authority (For those who have applied for M. Tech admission under EWS category) as per **Annexure-7** issued after 31<sup>st</sup> March, 2026.
- h. The candidates seeking admission under Kashmiri Migrants (KM) seats must produce the following documents, in original, at the time of document verification:

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-8**.
- i. Valid GATE Score Card in Original for full time candidates.
- j. Experience Certificate (Original), for part time and full time sponsored candidates
- k. Sponsorship certificate in the prescribed format by Full-time sponsored candidates as per **Annexure-9**.
- l. A ‘No objection Certificate’ for Part-time candidates as per **Annexure-10**.
- m. In case of non-availability of latest category certificate i.e. EWS and OBC, candidate can submit an undertaking given in **Annexure-11** and **Annexure-12** respectively at the time of application filing or during admission.

## Details of the eligibility conditions and qualifying degree requirements for GATE Qualified candidates.

Assistantship as per AICTE norms will be awarded to candidates for the duration of the programmes i.e. two years to the full time students for M. Tech.

S. No.	Department/ Programme Name	Qualifying GATE Subjects	Qualifying Degree
<b>1.</b>	<b>APPLIED CHEMISTRY</b>		
	Polymer Technology (PTE)	CY/CH/BT/ ME/PE/PI/ TF/XE/XL/ ES	B.E. / B. Tech / M.Sc. / Integrated M.Sc. in any of the following Discipline: Biochemical Engineering; Biomedical Engineering; Biomedical Instrumentation;; Biotechnology; Chemical Engineering; Chemical Technology; Environmental Engineering; Environmental Science & Technology; Fibre & Textiles Processing Technology; Food Engineering & Technology; Food Processing Engineering; Processing & Preservation Engineering; Leather / Foot Wear Technology; Man- Made Textile Technology; Material Science and Engineering/ Technology; Mechanical Engineering; Paint Technology; Petro-Chemical Engineering; Petroleum Engineering/ Technology; Petroleum Refinery Engineering; Plastic Engineering/Technology; Polymer Engineering / Science / Technology; Polymer Science & Chemical Technology; Printing & Packing Technology; Production & Industrial Engineering: Rubber Technology; Textile Engineering/ Technology; Biochemistry; Bio-Sciences; Chemistry: Industrial Chemistry; Nano Science Technology; Pharmaceutical Chemistry & Technology; Pharmaceutical Science; Textile Chemistry.
<b>2.</b>	<b>APPLIED PHYSICS</b>		
	Material Science & Technology (MST)	PH/CY/XE/ EE/EC/MT/ CY/CH/BT/ ME/TF/CH/ PI/XL/CE/ CS/IN/AE	B.E. / B.Tech / M.Sc. / Integrated M.Sc. in any of the following disciplines and equivalent: Physics / Applied Physics/ Chemistry/ Material Science/ Nuclear Physics/ Solid State Physics/ Astrophysics/ Electronics/ Electrical/ Mechanical Engineering/ Material Science and Engineering/Material Science and Technology / Engineering Physics/ Biotechnology/ Allied life Science/Biophysics/ Biochemistry/ Environmental Science/ Environmental Engineering/ Biomedical Engineering/ Instrumentation/M.Sc. (CS/IT with Mathematics, Physics and Chemistry at B.Sc. level)

S. No.	Department/ Programme Name	Qualifying GATE Subjects	Qualifying Degree
<b>3. BIOTECHNOLOGY</b>			
	Bioinformatics (BIO)	BT/BM/XL/ ES/CS/DA/ AG	B. Tech/ B.E./ Int. M.Sc./ M.Sc. degree in any of the following disciplines: Biotechnology/Bioinformatics/Biomedical Engineering/ Biochemical Engineering/ Life Sciences/ Computer Science & Information Technology, Data Sciences, Artificial Intelligence/Environmental Science and Engineering/ Genetics/ Microbiology/ Biochemistry/ Agriculture Science and Engineering.
	Industrial Biotechnology (IBT)	BT/BM/XL/ ES/CS/DA/ AG	B. Tech/ B.E./ Int. M.Sc./ M.Sc. degree in any of the following disciplines: Biotechnology/Bioinformatics/Biomedical Engineering/ Biochemical Engineering/ Life Sciences/ Computer Science & Information Technology, Data Sciences, Artificial Intelligence/Environmental Science and Engineering/ Genetics/ Microbiology/ Biochemistry/ Agriculture Science and Engineering.
<b>4. CIVIL ENGINEERING</b>			
	Geotechnical Engineering (GTE)	CE	B. Tech./B.E. Degree in CE
	Hydraulics & Water Resources Engineering(HRE)	CE	
	Structural Engineering(STE)	CE	
<b>5. COMPUTER SCIENCE AND ENGINEERING</b>			
	Computer Science & Engineering (CSE)	CS/DA	B.E /B.Tech. in CSE/IT/SE/MC/ECE/ EE/ EEE /CC/MoC/ BDA /DA/ IoT/ DS/ CyS/ AI/ ML/ CTIS/CST/CS&IT/Co/ CSD/Eo/EoE/Eo&Co/EI&Co/MI/ICT/IS/IC/CS&CE Or B.E /B.Tech. in CSE/CS/IT/SE/MC (with Specialization in CC/ MoC/ BDA/ DA/ IoT/ DS/ CyS/ AI/ML/CTIS) Or M.Sc. in (CS/ IT/ SE/ CC/MoC/BDA/DA/IoT/DS/CyS/AI/ ML/ CTIS/Inf)
	Artificial Intelligence (AI)	CS/DA	
	Cyber Security (CYS)	CS/DA	
<b>6. INFORMATION TECHNOLOGY</b>			
	Information Technology (IT)	CS/DA	B.E /B.Tech. in CSE/IT/SE/MC/ECE/ EE/ EEE /CC/MoC/ BDA /DA/ IoT/ DS/ CyS/ AI/ ML/ CTIS/CST/CS&IT/Co/ CSD/Eo/EoE/Eo&Co/EI&Co/MI/ICT/IS/IC/CS&CE Or B.E /B.Tech. in CSE/CS/IT/SE/MC (with Specialization in CC/ MoC/ BDA/ DA/ IoT/ DS/ CyS/ AI/ML/CTIS) Or M.Sc. in (CS/ IT/ SE/ CC/MoC/BDA/DA/IoT/DS/CyS/AI/ ML/ CTIS/Inf)

S. No.	Department/ Programme Name	Qualifying GATE Subjects	Qualifying Degree
<b>7. ELECTRONICS &amp; COMMUNICATIONS ENGINEERING</b>			
	Microwave and Optical Communication (MOC)	EC/PH	B.E/B.Tech in ECE/EP/Electrical Engineering/Electronics Engineering / Electrical & Electronics Engineering / Electronics & Telecommunication Engineering/Applied Electronics and Instrumentation Engg/Electronics Instrumentation & Control Engg/IT/CSE/SE/IS. M.Sc Electronic/M.Sc in Physics with Electronics/Radio Physics/Solid State Physics.
	Signal Processing and Digital Design (SPD)	EC/CS/EE/IN	B.E/B.Tech in ECE/Electrical Engineering / Electronics Engineering / Electrical & Electronics Engineering / Electronics & Telecommunication Engineering/Applied Electronics and Instrumentation Engg/Electronics Instrumentation & Control Engg/IT/CSE/SE/IS
	VLSI Design and Embedded System (VLS)		
<b>8. ELECTRICAL ENGINEERING</b>			
	Control & Instrumentation (C&I)	EE/EC/IN	B. Tech./B.E. Exam in EE/EEE/ECE/C&I/I&C/ Electrical and Computer Engineering
	Power System (PSY)	EE	B. Tech./B.E. Exam in EE/EEE/ Electrical and Computer Engineering
	Power Electronics and Systems (PES)	EE/IN	B. Tech./B.E. Exam in EE/EEE/C&I/I&C/Electrical and Computer Engineering
<b>9. ENVIRONMENT ENGINEERING</b>			
	Environmental Engineering (ENE)	CE/ XL/CH/ ES	B. Tech./B.E. Exam in EN/CE/BT/CH/ PT
<b>10. MECHANICAL ENGINEERING</b>			
	Production Engineering (PRD)	ME/PI/AE/ AG/NM/MN/ NT	B. Tech / B.E. in ME / PE / Industrial / Manufacturing/ Welding / Automation and Robotics/Automobile/ Aeronautical/ Aerospace/ Energy/ CADM/ CIM/ Foundry/ Marine/ Mechatronics/ Metallurgy/ Mining/ Tool and Die/ Agriculture or Equivalent of the above.
	Thermal Engineering (THE)	ME/PI/AE/ AG/NM/PE	B.Tech/B.E. in Mechanical/ Production/Automobile/ Aeronautical/ Aerospace/ Energy/ Hydraulics/ Petroleum/ Tribology/ Marine/ Mining/ Power Plant/ Agriculture or Equivalent of the above
	Industrial Engineering and Management (IEM)	Any branch of Engineering	Bachelor degree (4-years degree Programs; B.Tech./ B.E/B.Sc.Engg., and equivalent degree) in any branch of Engineering will be eligible to take admission in this program. This program (M.Tech. in Industrial Engineering and Management) is interdisciplinary in nature.
	Energy Systems and Management (ESM)	Any branch of Engineering	Bachelor degree (4-years degree Programs; B.Tech./ B.E/B.Sc.Engg., and equivalent degree) in any engineering branch will be eligible to take admission in this program. This program (M.Tech. in Energy Systems and Management) is interdisciplinary.
	Computer Aided Analysis and Design (CAAD)	ME/PI/CE/ AG/NM/AE	B.Tech./B.E in Mechanical/ Production/Civil/ Manufacturing/ Automation and Robotics/ Automobile/ Aeronautical/ Aerospace/ CADM/ CIM/ Mechatronics/ Mining/ Tool and Die/ Agriculture or Equivalent of the above

S. No.	Department/ Programme Name	Qualifying GATE Subjects	Qualifying Degree
<b>11</b>	<b>SOFTWARE ENGINEERING</b>		
	Software Engineering (SWE)	CS/DA	B.Tech/ B.E. Degree in CS/ CSE/ Computer Engineering/ CST /CSD/ CS & IT/ SE/ IT/ IT&MI/ICT/ IS/ IC/ CS&CE/ MC/ ECE/ EEE/ CC/ MoC/ BDA/ DA/ IoT/DS/CyS/AI/ML/ CT/ Information Security OR M.C.A IM.Sc. (CS/ CSE/ Computer Engineering/ CST / CSD/ CS & IT/ SE/ IT/ Inf/ CC/MoC/ BDA/DA/IoT/DS/ CyS/AI/ML/ CTIS) (with Mathematics at B.Sc./B.C.A level)
	Data Science (DS)	CS/DA/EC/ EE/BT/ST	B.Tech/ B.E. Degree in CS/ CSE/ Computer Engineering/ CST /CSD/ CS & IT/ SE/ IT/ IT&MI/ICT/ IS/ IC/ CS&CE/ MC/ ECE/ EEE/ CC/ MoC/ BDA/ DA/ IoT/DS/CyS/AI/ML/ CT/ Information Security/ Biotechnology OR M.C.A IM.Sc. (CS/ CSE/ Computer Engineering/ CST / CSD/ CS & IT/ SE/ IT/ Inf/ CC/MoC/ BDA/DA/IoT/DS/ CyS/AI/ML/ CTIS) (with Mathematics at B.Sc./B.C.A level) OR M.Sc. (Operational Research/ Electronics/ Physics /Statistics/ Mathematics)
<b>12</b>	<b>GEOSPATIAL SCIENCE AND TECHNOLOGY (DGST)</b>		
	Geoinformatics (GINF)*	Any subject shown in qualifying degree	(aa) BE/B.Tech. or equivalent in any branch of Engineering and Technology (ab) M.Sc. in Architecture/ Remote Sensing/GIS/ Geomatics/ Geo-Informatics/ Geography/ Environment Science/ Mathematics/Physics/ Geology (ac) MCA or equivalent

\*(a) The total number of seats (out of 18) should be-

- (i) 60 % (~11) for (aa) i.e B.E/B.Tech. in Engineering
- (ii) 40% (~7) for (ab) i.e M.Sc. and (ac) i.e MCA.
- (iii) During the spot round, all seats will be merged and offered to Engineering students (aa) first , then to MCA students (ab) and then to M.Sc. students (ac).

\*(b) A common merit of GATE score be made for shortlisting.

#Candidates having AMIE/AMIS/AMIChE/AMIIM/Grad IETE, who possess B.Sc. or Diploma in engineering are also eligible to apply for admission to M. Tech. courses.

## Details of the eligibility conditions and qualifying degree requirements for Non-GATE candidates.

The University will provide financial assistance of Rs. 7500/- per month based on the recommendations of a committee constituted by the Competent Authority

### Details for Screening test for M.Tech admission

S. No.	Department/ Programme Name	Qualifying admission test	Qualifying Degree
<b>1. APPLIED CHEMISTRY</b>			
	Polymer Technology (PTE)	DBT/ DEN/ DAC/ DME	B.E. / B. Tech / M.Sc. / Integrated M.Sc. in any of the following Discipline: Biochemical Engineering; Biomedical Engineering; Biomedical Instrumentation;; Biotechnology; Chemical Engineering; Chemical Technology; Environmental Engineering; Environmental Science & Technology; Fibre & Textiles Processing Technology; Food Engineering & Technology; Food Processing Engineering; Processing & Preservation Engineering; Leather / Foot Wear Technology; Man- Made Textile Technology; Material Science and Engineering/ Technology; Mechanical Engineering; Paint Technology; Petro-Chemical Engineering; Petroleum Engineering/ Technology; Petroleum Refinery Engineering; Plastic Engineering/Technology; Polymer Engineering / Science / Technology; Polymer Science & Chemical Technology; Printing & Packing Technology; Production & Industrial Engineering: Rubber Technology; Textile Engineering/ Technology; Biochemistry; Bio-Sciences; Chemistry: Industrial Chemistry; Nano Science Technology; Pharmaceutical Chemistry & Technology; Pharmaceutical Science; Textile Chemistry.
<b>2. APPLIED PHYSICS</b>			
	Material Science & Technology (MST)	DAP/DEC/ DEE/DBT/ DEN/DME	B.E. / B.Tech / M.Sc. / Integrated M.Sc. in any of the following disciplines and equivalent: Physics / Applied Physics/ Chemistry/ Material Science/ Nuclear Physics/ Solid State Physics/ Astrophysics/ Electronics/ Electrical/ Mechanical Engineering/ Material Science and Engineering/Material Science and Technology / Engineering Physics/ Biotechnology/ Allied life Science/Biophysics/ Biochemistry/ Environmental Science/ Environmental Engineering/ Biomedical Engineering/ Instrumentation/M.Sc. (CS/IT with Mathematics, Physics and Chemistry at B.Sc. level)

S. No.	Department/ Programme Name	Qualifying admission test	Qualifying Degree
<b>3. BIOTECHNOLOGY</b>			
	Bioinformatics (BIO)	DBT	B. Tech/ B.E./ Int. M.Sc./ M.Sc. degree in any of the following disciplines: Biotechnology/ Bioinformatics/ Biomedical Engineering/ Biochemical Engineering/ Life Sciences/ Computer Science & Information Technology, Data Sciences, Artificial Intelligence/Environmental Science and Engineering/ Genetics/ Microbiology/ Biochemistry/ Agriculture Science and Engineering.
	Industrial Biotechnology (IBT)	DBT	B. Tech/ B.E./ Int. M.Sc./ M.Sc. degree in any of the following disciplines: Biotechnology/ Bioinformatics/ Biomedical Engineering/ Biochemical Engineering/ Life Sciences/ Computer Science & Information Technology, Data Sciences, Artificial Intelligence/Environmental Science and Engineering/ Genetics/ Microbiology/ Biochemistry/ Agriculture Science and Engineering.
<b>4. CIVIL ENGINEERING</b>			
	Geotechnical Engineering (GTE)	DCE	B. Tech./B.E. Degree in CE
	Hydraulics & Water Resources Engineering (HRE)		
	Structural Engineering (STE)		
<b>5. ELECTRONICS &amp; COMMUNICATIONS ENGINEERING</b>			
	Microwave and Optical Communication (MOC)	DEC/DAP	B.E/B.Tech in ECE/EP/Electrical Engineering/Electronics Engineering / Electrical & Electronics Engineering / Electronics & Telecommunication Engineering/Applied Electronics and Instrumentation Engg/Electronics Instrumentation & Control Engg/IT/CSE/SE/IS. M.SC Electronic/M.Sc in Physics with Electronics/Radio Physics/Solid State Physics.
	Signal Processing and Digital Design (SPD)	DEC/DEE/DCS	B.E/B.Tech in ECE/Electrical Engineering / Electronics Engineering / Electrical & Electronics Engineering / Electronics & Telecommunication Engineering/Applied Electronics and Instrumentation Engg/Electronics Instrumentation & Control Engg/IT/CSE/SE/IS
	Program Name: VLSI Design and Embedded System (VLS)		
<b>6. ELECTRICAL ENGINEERING</b>			
	Control & Instrumentation (C&I)	DEE/DEC	B. Tech./B.E. Exam in EE/EEE/ECE/C&I/I&C/ Electrical and Computer Engineering
	Power System (PSY)	DEE	B. Tech./B.E .Exam in EE/EEE/ Electrical and Computer Engineering
	Power Electronics And Systems (PES)	DEE	B. Tech./B.E. Exam in EE/EEE/C&I/I&C/Electrical and Computer Engineering

S. No.	Department/ Programme Name	Qualifying admission test	Qualifying Degree
<b>7. ENVIRONMENT ENGINEERING</b>			
	Environmental Engineering (ENE)	DES/DCE/ DBT/DAC	B. Tech./B.E. Exam in EN/CE/BT/CH/ PT
<b>8. MECHANICAL ENGINEERING</b>			
	Production Engineering (PRD)	DME	B. Tech / B.E. in ME / PE / Industrial / Manufacturing Science/Welding Technology/Automation Engineering.
	Thermal Engineering (THE)	DME	B.Tech/B.E. in ME/PE/AE/ Manufacturing Science/ Automation Engineering
	Industrial Engineering and Management (IEM)	DCS/DEE/ DEC/DBT/ DCE/DEN/ DME /DAP/ DAC	Students with Bachelor degree (4-years degree Programs; B.Tech./B.E/B.Sc.Engg., and equivalent degree) in any branch of Engineering will be eligible to take admission in this program. This program (M.Tech. in Industrial Engineering and Management) is interdisciplinary in nature.
	Energy Systems and Management (ESM)	DCS/DEE/ DEC/DBT/ DCE/DEN/ DME /DAP/ DAC	Students with a Bachelor degree (4-years degree Programs; B.Tech./B.E/B.Sc.Engg., and equivalent degree) in any engineering branch will be eligible to take admission in this program. This program (M.Tech. in Energy Systems and Management) is interdisciplinary.
	Computer Aided Analysis and Design (CAAD)	DME/DCE	Students with Bachelor degree (4-years degree Programs; B.Tech./B.E/B.Sc.Engg., and equivalent degree) in the branch of Mechanical Engineering or Production Engineering or Civil Engineering will be eligible to take admission in this program.
<b>9. Geospatial Science and Technology (DGST)</b>			
	Geoinformatics (GINF)*	DEC/DES/ DCS/DME/ DEE/DCE/ DGST	(aa) BE/B.Tech. or equivalent in any branch of Engineering and Technology (ab) M.Sc. in Architecture/Remote Sensing/GIS/ Geomatics / Geo-informatics/ Geography / Environment Science /Mathematics/ Physics/ Geology (ac) MCA or equivalent

### List of GATE Disciplines/Papers and their codes

S. No.	Paper	Code	S. No.	Paper	Code
1	Aerospace Engineering	AE	16	Instrumentation Engineering	IN
2	Agricultural Engineering	AG	17	Mathematics	MA
3	Architecture and Planning	AR	18	Mechanical Engineering	ME
4	Biotechnology	BT	19	Mining Engineering	MN
5	Civil Engineering	CE	20	Metallurgical Engineering	MT
6	Chemical Engineering	CH	21	Naval Architecture & Marine Engineering	NM
7	Computer Science & Information Technology	CS	22	Life Sciences	XL
8	Chemistry	CY	23	Physics	PH
9	Data Science & Artificial Intelligence	DA	25	Textile Engineering and Fiber Science	TF
10	Electronics and Communication Engineering	EC	24	Production and Industrial Engineering	PI
11	Electrical Engineering	EE	26	Engineering Sciences	XE
12	Environmental Science & Engineering	ES	27	Humanities and Social Science	XH
13	Ecology and Evolution	EY	28	Life Sciences	XL
14	Geomatic Engineering	GE	29	Petroleum Engineering	PE
15	Geology and Geophysics	GG	30	Statistics	ST

### List of NON-GATE Disciplines/Papers and their codes

S. No.	Paper	Code
1	Applied Chemistry	DAC
2	Applied Physics	DAP
3	Biotechnology	DBT
4	Civil Engineering	DCE
5	Computer Science Engineering/ Information Technology/ Software Engineering	DCS
6	Electrical Engineering	DEE
7	Electronics & Communication Engineering	DEC
8	Environmental Science and Engineering	DEN
9	Mechanical Engineering	DME
10	Geoinformatics	DGST

Engineering Sciences (XE) Papers	Life Sciences (XL) Papers
A. Engineering Mathematics	P. Chemistry
B. Fluid Mechanics	Q. Biochemistry
C. Materials Science	R. Botany
D. Solid Mechanics	S. Microbiology
E. Thermodynamics	T. Zoology
F. Polymer Science and Engineering	U. Food Technology
G. Food Technology	
H. Atmospheric and Oceanic Sciences	

## Details of the abbreviations used for qualifying degree

Electrical Engineering	EE	Mechanical Engineering	ME
Civil Engineering	CE	Environmental Engineering	EN
Information Technology	IT	Electrical & Electronics Engineering	EEE
Software Engineering	SE	Mathematics and Computing	MC
Automobile Engineering, Automotive Engineering	AE	Metallurgical and Material Science, Metallurgical Engineering	MT
Production, Production & Industrial Engineering, Industrial Engineering	PE	Biotechnology, Industrial Biotechnology, Bioinformatics	BT
Control & Instrumentation Engineering	C&I	Chemical Engineering	CH
Biochemical Engineering	BE	Artificial Intelligence	AI
Electronics & Communication Engineering, Electronics Engineering	ECE	Computer Science	CS
Engineering Physics	EP	Polymer Technology	PT
Computers	Co	Mobile Computing	MoC
Electrical Engineering	EE	Big Data Analytics	BDA
Cloud Computing	CC	Data Analytics	DA
Internet of Things	IoT	Data Science	DS
Cyber Security	CyS	Computer Science & IT	CS&IT
Machine Learning	ML	Computer Science & Design	CSD
Cloud Technology and Information Security	CTIS	Electronics	Eo
Computer Science and Technology	CST	Electronics Engineering	EoE
Electronics and Computer	Eo&Co	Information and Communication Technology	ICT
Electrical and Computers	EI&Co	Information Science	IS
Mathematical Innovations	MI	Information and Communication	IC
Computer Science and Communication Engineering	CS&CE	Informatics	Inf
Information Technology and Mathematical Innovations	IT&MI	Computer Technology	CT
Computer Science & Engineering	CSE	Instrumentation & Control Engineering	I&C

**Seat Matrix for M.Tech. (Full Time) Programmes  
for the Session 2026-27**

Category	Department/ Branch	AC	AP	BT		CE			DGST	CSE			IT	SE	
		PTE	MST	BIO	IBT	GTE	HRE	STE	GINF	CSE	AI	CYS	IT	SWE	DS
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
GN	GNGN	5	9	10	11	9	9	11	7	11	11	11	10	10	12
	PwDGN		1		1	1	1			1	1	1		1	
<b>Total GN Seats</b>		<b>5</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>10</b>	<b>10</b>	<b>11</b>	<b>7</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>11</b>	<b>12</b>
SC	SCGN	2	4	4	5	3	2	3	3	5	5	5	4	3	5
	SC-PwD						1								
<b>Total SC Seats</b>		<b>2</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>5</b>
ST	STGN	1	2	1	2	2	2	2	1	2	2	2	2	2	2
	ST-PwD			1											
<b>Total ST Seats</b>		<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
OBC	OBCGN	3	6	5	8	7	7	7	4	8	8	8	6	7	7
	OBC-PwD			1					1				1		1
<b>Total OBC Seats</b>		<b>3</b>	<b>6</b>	<b>6</b>	<b>8</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>5</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>7</b>	<b>8</b>
EWS	EWSGN	2	3	3	3	3	1	2	2	3	3	3	2	2	3
	EWS-PwD						1								
<b>Total EWS Seats</b>		<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>Total Seats</b>		<b>13</b>	<b>25</b>	<b>25</b>	<b>30</b>	<b>25</b>	<b>24</b>	<b>25</b>	<b>18</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>25</b>	<b>25</b>	<b>30</b>
<b>Sponsored (SFT)</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>Part Time (PT)</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>

Category	Department/ Branch	ECE			EE			ENV	ME					Total
		MOC	SPD	VLS	C&I	PSY	PES	ENE	PRD	THE	IEM	ESM	CAAD	
		15	16	17	18	19	20	21	22	23	24	25	26	
GN	GNGN	5	11	9	10	10	11	10	9	10	12	11	11	255
	PwDGN			1			1	1	1			1	1	14
<b>Total GN Seats</b>		<b>5</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>269</b>
SC	SCGN	2	2	3	3	3	5	4	3	4	4	5	5	96
	SC-PwD		1								1			3
<b>Total SC Seats</b>		<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>99</b>
ST	STGN	1	2	2	2	2	2	2	2	2	1	2	2	47
	ST-PwD					1					1			3
<b>Total ST Seats</b>		<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>50</b>
OBC	OBCGN	3	6	7	6	7	8	7	7	6	7	8	8	171
	OBC-PwD		1		1					1	1			8
<b>Total OBC Seats</b>		<b>3</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>179</b>
EWS	EWSGN	2	2	3	3	1	3	1	3	2	3	3	3	64
	EWS-PwD					1								2
<b>Total EWS Seats</b>		<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>66</b>
<b>Total Seats</b>		<b>13</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>30</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>663</b>
<b>Sponsored (SFT)</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>130</b>
<b>Part Time (PT)</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>130</b>

## 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(ies) for B.E./B.Tech./M.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 \_\_\_\_\_. 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

Place: \_\_\_\_\_

Date: \_\_\_\_\_

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

I, \_\_\_\_\_ son/daughter/ward of Mr./Ms \_\_\_\_\_ hereby give an undertaking that I have appeared in all the examinations including practical(S)/projects/theory/backpaper(s)/supplementary(ies) before the date of registration and only the result is awaited, which is likely to be declared by \_\_\_\_\_

Place: \_\_\_\_\_

Signature \_\_\_\_\_

Date: \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

## Authorities who can Issue Caste/Tribe Certificate

**SC/ST/OBC candidates should submit certificate issued by any of the following authorities:**

District Magistrate/Additional District Magistrate/Collector/Deputy Commissioner/Additional Deputy Commissioner/Deputy Collector/1<sup>st</sup> Class Stipendiary Magistrate/City Magistrate/Sub-Divisional Magistrate/Taluka Magistrate/Executive Magistrate/Extra Assistant Commissioner/Chief Presidency Magistrate/Additional Chief Presidency Magistrate/Presidency Magistrate/Revenue Officer not below the rank of Tehsildar/Sub-Divisional Officer of the area where the candidate and/or his/her family normally resides/Administrator/Secretary to Administrator/Development Officer (Lakshadweep Island).

(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. / Kum. \_\_\_\_\_  
\_\_\_\_\_ 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 dated 25/05/95.
- 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 dated 04/04/2000.
- x. Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 21/09/2000.
- 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.

District Magistrate / Deputy Commissioner / Competent Authority  
Seal

Dated: \_\_\_\_\_

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:
  - iii. District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
  - iv. Chief Presidency Magistrate/ Additional Chief Presidency Magistrate/Presidency Magistrate.
  - v. Revenue Officer not below the rank of Tehsildar' and
  - vi. 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: \_\_\_\_\_

## Person with Disability Sub-Category

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

- 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.
- 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)  
Seal of Office:

Date: \_\_\_\_\_

NOTE:

- The medical board must have one orthopaedic specialist as its member.
- Candidate having temporary or progressive handicap will not be considered against the seats.

**Government of.....**  
**(Name & Address of the authority issuing the certificate)**  
**Income & Asset Certificate to be Produced by**  
**Economically Weaker Sections**

Certificate No. \_\_\_\_\_

Date: \_\_\_\_\_

VALID FOR THE YEAR \_\_\_\_\_

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)

Name \_\_\_\_\_

Signature with seal of Office

Designation \_\_\_\_\_

\*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 AND 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/ 1<sup>st</sup> 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 or the area where the candidate and/or his family normally resides.

## 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.

## Sponsorship Certificate

(Required from full-time sponsored candidates only)

The undersigned is pleased to sponsor Mr./Ms. \_\_\_\_\_  
who is working in this organization for the last \_\_\_\_\_ years and is presently holding  
the rank/position of \_\_\_\_\_ for pursuing the M. Tech programme (course) at  
Delhi Technological University, Delhi in the Department of \_\_\_\_\_  
with specialization in the following areas:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

His/her conduct and character has been good.

Place: \_\_\_\_\_

Signature of Head of the Institution/Organization  
with seal

Date: \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

## No Objection Certificate

(Required from candidates seeking admission on part-time basis)

The undersigned is pleased to permit Mr./Ms. \_\_\_\_\_

who is working in this organization for the last \_\_\_\_\_ years and is presently holding

the rank/position of \_\_\_\_\_ for pursuing the M. Tech programme at Delhi

Technological University, Delhi with specialization in the following areas:

1. \_\_\_\_\_ 2. \_\_\_\_\_

3. \_\_\_\_\_ 4. \_\_\_\_\_

His/her conduct and character has been good.

The Institution/Organization would relieve him/her immediately for joining the above course, if selected for admission. If admitted the candidate will be permitted to be present at the University as required by the academic schedule for a period of three years and will continue to remain in service of this organization for the duration of the course.

Place: \_\_\_\_\_

Signature of Head of the Institution/Organization  
with seal

Date: \_\_\_\_\_

Name \_\_\_\_\_

Designation.....

**DELHI TECHNOLOGICAL UNIVERSITY**  
**For EWS Category Candidates Only**

Department Applied For \_\_\_\_\_

Programme Applied For \_\_\_\_\_

**Undertaking**

I \_\_\_\_\_ son/daughter of Shri \_\_\_\_\_

resident of village/town/city \_\_\_\_\_ district \_\_\_\_\_

State \_\_\_\_\_ hereby declare that I belong to EWS

Category as notified by Government.

I also declare that the condition of status / annual income of my parents is within prescribed limits for EWS as on the financial year ending on March 31, 2026. I shall submit a fresh EWS certificate valid for the year 2026-27 by at the time of admission.

Signature of the Candidate: \_\_\_\_\_

Name of the candidate: \_\_\_\_\_

Application No.: \_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_\_

**DELHI TECHNOLOGICAL UNIVERSITY****For OBC Category Candidates Only**

(Required from candidates seeking admission on part-time basis)

Department Applied For \_\_\_\_\_

Programme Applied For \_\_\_\_\_

**Undertaking**

I \_\_\_\_\_ son/daughter of Shr \_\_\_\_\_

resident of village/town/city \_\_\_\_\_ district \_\_\_\_\_

State \_\_\_\_\_ hereby declare that I belong to OBC

Category as notified by Government.

I also declare that the condition of status / annual income of my parents is within prescribed limits for the 'Non-Creamy Layer' as on the financial year ending on March 31, 2026. I shall submit the OBC-NCL Category certificate valid for the year 2026-27 at the time of admission.

Signature of the Candidate: \_\_\_\_\_

Name of the candidate: \_\_\_\_\_

Application No.: \_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_\_

## 7. SYLLABUS FOR ADMISSION TEST

### 1. Department of Applied Chemistry (DAC)

Introduction of Polymer Science and Technology, Polymer, Monomer, Polymer Chemistry, Addition Polymerization, Condensation Polymerization, Thermoplastic Polymers, Thermosetting Polymers, Molecular Weight of Polymers, Common Polymers, Their Synthesis, Properties and Applications such as Poly Ethylene, Poly Propylene, Poly Vinyl Chloride, Poly Styrene, Poly Methyl Methacrylate, Poly Carbonate, Poly Amides, Poly Esters, Epoxy Resins.

Basics of Thermodynamics, First Law of Thermodynamics, Type of Systems, Internal Energy, Enthalpy, Work, Heat, Reversible and Non-Reversible Systems, Second Law of Thermodynamics, Carnot Engines, Zeroth Law of Thermodynamics, Maxwell Thermodynamic Relations.

Types of fluids, Types of Flow, Reynolds Number, Newton's Law of Viscosity, Newtonian and Non-Newtonian Fluids, Power Law, Thixotropic Fluids, Dilatant Fluids, Bingham Plastic Fluids, Equation of Continuity. Mechanical Properties Of Materials, Stress-Strain Behavior, Hook's Law of Elasticity, Young's Modulus, Tensile Properties, Impact Strength, and Hardness.

**Linear Algebra:** Matrix Algebra, Systems of Linear Equations. Calculus: Functions of a Single Variable, Limit, Continuity and Differentiability, Partial Derivatives, Total Derivative, Maxima and Minima, Line, Surface and Volume Integrals. Differential Equations: First-Order Equations (Linear and Nonlinear).

### 2. Department of Applied Physics (DAP)

**Solid State Materials:** Introduction, Crystal structures, Unit cells, Crystal systems, Crystallographic point, direction and

planes, Miller Indices, X-rays Diffraction, Magnetic properties of materials. Types of magnetic materials. Meissner effect, Type I and II superconductors, High temperature superconductors, BCS theory, Applications of Superconductors.

**Quantum Mechanics:** Failure of classical mechanics, Introduction to quantum mechanics, Wave function and its properties, Probability density, Schrodinger equations, Eigenvalues and Eigenfunctions, Expectation values, Particle in a box (Infinite/Finite potential well), Tunneling effect, Photoelectric effect, Compton effect, Pair production, Phase and group velocities, Uncertainty principle and its applications.

**Statistical Mechanics:** Statistical distribution, Maxwell-Boltzmann statistics, Fermi-Dirac statistics Bose-Einstein statistics, Free electron in a metal and Fermi energy.

**Thermodynamics:** Introduction, Laws of thermodynamics, Thermodynamics processes, Thermodynamic potentials and their interrelations, Carnot cycle theorem, Temperature entropy diagram, Maxwell's thermodynamical relations.

**Electromagnetics:** Introduction, Gauss divergence and Stokes theorem, Poisson's and Laplace's equations, Maxwell's equations, Electromagnetic wave in free space, Dielectric and conducting media, Poynting theorem.

**Lasers:** Basic principle, Characteristics of lasers, Einstein coefficients, Spontaneous and stimulated emission, Spatial and temporal coherence, Ruby, He-Ne and semiconductor lasers, Applications of lasers.

**Fibre Optics:** Basic principle, Light propagation in fibers, Numerical aperture, Single and multi-modes fiber, Step and

graded index fibers, Signal dispersion in optical fibers, Transmission losses, Applications of fibers.

**Semiconductors:** Elemental and compound semiconductors, Intrinsic and extrinsic semiconductors, Energy bands, Direct and indirect semiconductors, Effective mass, Fermi level, Statistics of electron and hole concentration, Temperature dependence of carrier concentrations, Conductivity and mobility, Hall effect in semiconductors, PN junction diodes, NPN/PNP transistors, BJT and FET.

**Nuclear Physics:** Binding energy, Binding energy curve, Liquid drop model, Radioactivity, Nuclear fission and fusion.

### 3. Department of Biotechnology (DBT)

**Molecules and their Interaction Relevant to Biology:** Structure and functions of biomolecules; Carbohydrates; Fatty acids; Lipids; Amino acids; Proteins; Nucleic acids – DNA, mRNA, tRNA, rRNA; Hormones; Vitamins; Enzymes; Bioenergetics; Cell metabolism; Protein-protein and protein-DNA interactions

**Cellular Organization:** Cell theory; Cell as basic unit of life; Hierarchy of cell organization; Structure and organization of prokaryotic and eukaryotic cells; Structure and function of cell organelles; Biomembranes; Cytoskeletal elements; Chromosome structure; Karyotype; Chromatin organization

**Fundamental Processes:** Photosynthesis; Cellular respiration; Movement through cell membrane; Nutrition; Blood clotting; Human physiological systems; Replication; Transcription; Translation; DNA repair mechanisms; Plant physiology; Bacterial growth; Microbial genetics, Secondary metabolites

**Cell Communication and Cell Signaling:** Tight, adherens and communicating cell junctions; Cell adhesion molecules;

Cadherins and Integrins; Extracellular matrix; Cell cycle; Basics of cancer; Basics of cell signaling; Major signaling pathways

**Developmental Biology and Evolution:** Stages of development; Mechanism of differentiation; Germ layers; Potency; Morphogenetic movements; Early and late development in model organisms; Cell division; Gametogenesis and fertilization in animals and flowering plants; Embryology; Seed germination; Dormancy; Evolution and natural selection; Mendel's law of heredity; Evidences of DNA as genetic information carrier; Hardy-Weinberg law; Extra-chromosomal inheritance; Sex-linked inheritance in humans; Mutations

**Plant and Animal Biotechnology:** Plant tissue culture techniques; Totipotency; Organogenesis and Somatic embryogenesis; Suspension culture; Protoplast isolation and somatic hybridization; Production of secondary metabolites; Basic techniques in animal cell and organ culture; Bioreactors for large scale culture of animal cells; Stem cells; Transgenic plants and animals

**Immunology and Vaccines:** Immunity; Antigen; Structure of antibody; Hapten; Antigen-antibody interaction, Introduction to antigen presentation; Role of MHC; Complement system; Bacterial diseases of humans; Types of vaccines; Immunization; Recombinant vaccines

**Diversity of Life Forms:** General characteristics of life forms; General characteristics of bacteria, fungi, algae, Microbial growth curve; plant and animal viruses; Classification of plant and animal kingdom

**Ecological Principles and Environmental Biology:** Ecosystem; Ecological relationships; Habitat and niche; Ecology of ecosystems; Air, water and soil pollution; Green house effect and global warming; Noise pollution; Pollution abatement; Waste water treatment; Disposal of solid wastes;

Biogeochemical cycles of elements; Bioremediation; Bioleaching; Biopesticides; Biofertilizers

**Applied Biology:** Basics of fermentation technology; Microbes in industry; Biosensors; Biofuels; Principles of gene cloning; Methods of gene transfer; Application of biology in agriculture, health, industry and environment sectors

**Methods in Biology:** Basics of Centrifugation; Electrophoresis; Chromatography; Microscopy; UV-Visible spectrophotometry; Radiotracer technique; PCR; DNA sequencing; Southern blotting; Tests of significance; Analysis of variation; Correlation and regression; Hybridoma technology; Basic techniques in bioinformatics

**Bioinformatics:** Sequence and Structural Databases (NCBI, GenBank, EMBL, DDBJ, PDB); SNP databases; Visualization tools- Pymol, VMD; Functional Annotation; Local and Global Alignment; Phylogenetics; Pharmacogenomics; Machine learning

**Inheritance Biology:** Mendelian principles, Extensions of Mendelian principles, Gene mapping methods, Extra chromosomal inheritance, Human genetics, Mutations, Structural and numerical alterations of chromosomes

#### 4. Department of Civil Engineering (DCE)

**Engineering Mechanics:** System of forces, free-body diagrams, equilibrium equations; Internal forces in structures; Frictions and its applications; Centre of mass; Free Vibrations of undamped SDOF system.

**Solid Mechanics:** Bending moment and shear force in statically determinate beams; Simple stress and strain relationships; Simple bending theory, flexural and shear stresses, shear centre; Uniform torsion, Transformation of stress; buckling of column, combined and direct bending stresses.

**Structural Analysis:** Statically determinate and indeterminate structures by force/energy methods; Method of superposition; Analysis of trusses, arches, beams, cables and frames; Displacement methods: Slope deflection and moment distribution methods; Influence lines; Stiffness and flexibility methods of structural analysis.

**Construction Materials and Management:**  
**Construction Materials:** Structural Steel – Composition, material properties and behaviour; Concrete - Constituents, mix design, short-term and long-term properties. **Construction Management:** Types of construction projects; Project planning and network analysis - PERT and CPM; Cost estimation.

**Concrete Structures:** Working stress and Limit state design concepts; Design of beams, slabs, columns; Bond and development length; Prestressed concrete beams.

**Steel Structures:** Working stress and Limit state design concepts; Design of tension and compression members, beams and beam- columns, column bases; Connections - simple and eccentric, beam-column connections, plate girders and trusses; Concept of plastic analysis -beams and frames.

**Soil Mechanics:** Three-phase system and phase relationships, index properties; Unified and Indian standard soil classification system; Permeability - one dimensional flow, Seepage through soils – two - dimensional flow, flow nets, uplift pressure, piping, capillarity, seepage force; Principle of effective stress and quicksand condition; Compaction of soils; One- dimensional consolidation, time rate of consolidation; Shear Strength, Mohr's circle, effective and total shear strength parameters, Stress-Strain characteristics of clays and sand; Stress paths.

**Foundation Engineering:** Sub-surface investigations - Drilling bore holes,

sampling, plate load test, standard penetration and cone penetration tests; Earth pressure theories - Rankine and Coulomb; Stability of slopes – Finite and infinite slopes, Bishop’s method; Stress distribution in soils – Boussinesq’s theory; Pressure bulbs, Shallow foundations – Terzaghi’s and Meyerhoff’s bearing capacity theories, effect of water table; Combined footing and raft foundation; Contact pressure; Settlement analysis in sands and clays; Deep foundations – dynamic and static formulae, Axial load capacity of piles in sands and clays, pile load test, pile under lateral loading, pile group efficiency, negative skin friction.

**Fluid Mechanics:** Properties of fluids, fluid statics; Continuity, momentum and energy equations and their applications; Potential flow, Laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth; Concept of lift and drag. Hydraulics: Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Channel Hydraulics - Energy-depth relationships, specific energy, critical flow, hydraulic jump, uniform flow, gradually varied flow and water surface profiles.

**Hydrology:** Hydrologic cycle, precipitation, evaporation, evapo-transpiration, watershed, infiltration, unit hydrographs, hydrograph analysis, reservoir capacity, flood estimation and routing, surface runoff models, ground water hydrology - steady state well hydraulics and aquifers; Application of Darcy’s Law.

**Irrigation:** Types of irrigation systems and methods; Crop water requirements - Duty, delta, evapotranspiration; Gravity Dams and Spillways; Lined and unlined canals, Design of weirs on permeable foundation; cross drainage structures.

**Water and Waste Water Quality and Treatment:** Basics of water quality standards – Physical, chemical and biological parameters; Water quality index;

Unit processes and operations; Water requirement; Water distribution system; Drinking water treatment. Sewerage system design, quantity of domestic wastewater, primary and secondary treatment. Effluent discharge standards; Sludge disposal; Reuse of treated sewage for different applications

## 5. Department of Electrical Engineering (DEE)

### Section 1 : Electric Circuits

Network graph, KCL, KVL, Node and Mesh analysis, Transient response of DC and AC networks, sinusoidal steady-state analysis, resonance, passive filters, Ideal current and voltage sources, Thevenin’s theorem, Norton’s theorem, Superposition theorem, Maximum power transfer theorem, Two-port networks, Three phase circuits, Power factor in AC circuits.

### Section 2 : Electromagnetic Fields

Coulomb’s Law, Electric field intensity, Electric flux density, Gauss’s law, Divergence, Curl, Electric field and potential due to point, line, plane and spherical charge distributions, Effect of dielectric medium, Capacitance of simple configurations, Bio-Savart’s law, Ampere’s law, Faraday’s law, Lorentz force, Inductance, Magneto motive force, Reluctance, Magnetic circuits, Self and mutual inductance of simple configurations.

### Section 3 : Signals and Systems

Representation of continuous and discrete time signals, Shifting and scaling operations, Linear time invariant systems, causal systems, BIBO stability criterion, Fourier series representation of continuous time periodic signals, Nyquist sampling theorem, Applications of Fourier transform, Laplace transform and Z-Transform.

### Section 4 : Electrical Machines

**Single phase transformer :** equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; **Three phase transformer:** connections,

parallel operation; Auto-transformer; Electromechanical energy conversion principles, DC machines : separately excited, series and shunt, motoring and generating mode of operation and their characteristics, starting and speed control of dc motors; Three phase induction motors : principle of operation, types, performance, torque-speed characteristics, no-load and blocked rotor tests, equivalent circuit, starting and speed control; Operating principle of single phase induction motors; Synchronous machines: cylindrical and salient pole machines, performance, regulation and parallel operation of generators, starting of synchronous motor; Types of losses and efficiency calculations of electric machines.

### **Section 5 : Power systems**

Power generation concepts, AC and DC transmission concepts, Models and performance of transmission lines and cables, Series and shunt compensation, Electric field distribution and insulators, Distribution systems, Per-unit quantities, Bus admittance matrix, Gauss-Seidel and Newton-Raphson load flow methods, Voltage and Frequency control, power factor correction, Symmetrical components, Symmetrical and unsymmetrical fault analysis, Principles of over-current, differential and distance protection; Circuit breakers, System stability concepts, Equal area criterion.

### **Section 6 : Control Systems**

Mathematical modeling and representation of systems, Feedback principle, transfer function, Block diagrams and Signals flow graphs, Transient and Steady-state analysis of linear time invariant systems, Routh-Hurwitz and Nyquist criteria, Bode plots Root loci, Stability analysis, Lag, Lead and Lead-Lag compensators; P, PI and PID controllers; State space model, State transition matrix.

### **Section 7 : Electrical and Electronic Measurements**

Bridges and potentiometers; Measurement of voltage, current, power, energy and

power factor; Instrument transformers; Digital voltmeters and multimeters; Phase, Time and Frequency measurement; Oscilloscopes, Error analysis.

### **Section 8 : Analog and Digital Electronics**

Characteristics of diodes, BJT, MOSFET; simple diode circuits : clipping, clamping, rectifiers; Amplifiers: Biasing, Equivalent circuit and Frequency response; Operational amplifiers : Characteristics and applications; Combinational and Sequential logic circuits; multiplexer; demultiplexer; 8085 microprocessor: Architecture, programming and Interfacing.

### **Section 9 : Power Electronics**

Characteristics of semiconductor power devices: Diode, Thyristor, Triac, GTO, MOSFET, IGBT; DC to DC conversion; Buck, Boost and Buck-Boost converters; Single and three phase configuration of uncontrolled rectifiers; Line commutated thyristor based converters; Bidirectional AC to DC voltage source converters; Issues of line current harmonics; Power factor, Distortion factor of AC to DC converters; Single phase and three phase inverters; Sinusoidal pulse width modulation.

## **6. Department of Electronics and Communication Engineering (DEC)**

### **Engineering Mathematics:**

**Linear Algebra:** Vector space, basis, linear dependence and independence.

**Calculus:** Taylor series.

**Probability and Statistics:** mean, mode, median and standard deviation, joint and conditional probability.

### **Networks, Signals and Systems**

**Circuit Analysis:** Node and mesh analysis, superposition, Thevenin theorem and Norton's theorem. Steady state sinusoidal analysis using phasors, complex power, maximum power transfer. Time and frequency domain analysis of linear circuits: RL, RC, RLC circuits. Solution of network

equations using Laplace transform. Linear 2-port network parameters. Continuous-time signals: Fourier series and Fourier transform representations, sampling theorem and applications.

Discrete-time signals: Discrete-time Fourier transform (DTFT), DFT, z-transform, interpolation of discrete-time signals; LTI systems; definition and properties causality, stability, impulse response, convolution, pole and zeros, frequency response.

### **Electronic Devices**

Energy bands in intrinsic and extrinsic silicon; equilibrium carrier concentration, direct and indirect band gap semiconductors. Carrier transport: diffusion current, drift current, mobility and resistivity, generation and recombination of carriers; Poisson and continuity equations. P-N junction, Zener diode, BJT, MOS capacitor, MOSFET, LED, photo diode and solar cell.

### **Analog Circuits**

Diode circuits; clipping, clamping and rectifiers.

BJT and MOSFET Amplifiers: Biasing, ac coupling, small signal analysis, frequency response. Current mirrors and differential amplifiers.

Op-amp circuits: Amplifiers, summers, differentiators, integrators, active filters, Schmitt triggers and oscillators.

### **Digital Circuits:**

Number systems: binary, integer and floating-point numbers. Combinatorial circuits: Boolean algebra, minimization of functions using Boolean identities and Karnaugh map, logic gates and their static CMOS implementations, arithmetic circuits, code converters, multiplexes, decoders.

Sequential circuits: latches and flip-flops, counters, shift-registers and finite state machines. Data converters: sample and hold circuits, ADCs and DACs.

### **Control Systems**

Basic control system components; Feedback principle; Transfer function; Block diagram representation; Signal flow graph; Transient and steady-state analysis of LTI systems; Frequency response; Routh-Hurwitz and Nyquist stability criteria; Bode and root-locus plots; Lag, lead and lag-lead compensation; State variable model and solution of state equation of LTI systems.

### **Communication System:**

Random processes: autocorrelation and power spectral density, properties of white noise, filtering of random signals through LTI system.

Analog communications: amplitude modulation and demodulation, angle modulation and demodulation, spectra of AM and FM, superheterodyne receivers, circuits.

Information theory: entropy, mutual information and channel capacity theorem.

Digital communications: PCM, DPCM, digital modulation schemes, (ASK, BPSK, FSK), bandwidth, MAP, ML decoding, matched filter receiver, SNR and BER for digital modulation, inter-symbol interference

### **Electromagnetics:**

Maxwell's equations: - differential and integral forms and their interpretation, boundary conditions, wave equation, Poynting vector.

Plane waves and properties: reflection and refraction, polarization, phase and group velocity, propagation through various media, skin depth.

Transmission lines: equations, characteristic impedance, impedance matching, impedance transformation, S-parameters, Smith char. Rectangular and circular waveguides, dipole and monopole antennas.

## 7. Department of Environmental Science and Engineering (DEN)

### Section 1: Mathematics Foundation

**Linear Algebra:** Determinants and matrices, Systems of linear equations, Eigenvalues and eigenvectors.

**Calculus:** Functions, Limit, Continuity, Differentiability, Local maxima and minima, Taylor series, Tests for convergence, Definite and indefinite integrals, Application of definite integral to obtain area and volume, Partial and total derivatives.

**Differential Equations:** Linear and non-linear first order ordinary differential equations (ODE), Higher order linear ODEs with constant coefficients, Cauchy's and Euler's equations, Laplace transform and its application in solving linear ODEs.

**Probability and Statistics:** Descriptive statistics, Measurement of central tendency, Dispersion, Skewness and kurtosis, Probability concepts, Conditional probability, Bayes theorem, Risk and reliability, Probability distributions, Correlation, Single and multiple regression models, Hypothesis testing (t-test, F-test, chi-square test).

### Section 2: Environmental Chemistry

**Fundamentals of Environmental Chemistry:** Covalent and ionic bonding; Chemical equations, concentration and activity; Structure and chemistry of organic molecules; Radioactivity of elements; Chemical equilibria; Thermodynamics and kinetics of chemical reactions.

**Principles of water chemistry:** Water quality parameters and their measurement; Acid-base equilibria; Buffer solution; Carbonate system; Solubility of gases in water; Complexation, precipitation, and redox reactions; Inorganic and organic contaminants in water and their speciation.

**Soil chemistry;** Organic matter, nitrogen, phosphorous, potassium, cation exchange capacity, base saturation, and sodium absorption ratio.

**Atmospheric Chemistry:** Composition of the atmosphere; Reactivity of trace substances in the atmosphere; Urban atmosphere—smog and particulate pollution; Chemistry of ozone formation; Chemistry of stratosphere.

**Section 3: Environmental Microbiology Prokaryotic and eukaryotic microorganisms;** Characteristics of diverse groups of microorganisms; Classification of microorganisms; Microbial diversity; Plant-microbe and soil-microbe interactions; Role of microorganisms in wastewater treatment, bioremediation and biogeochemical cycling.

**Cell chemistry and cell biology:** Structure of proteins, nucleic acid (DNA & RNA), lipids and polysaccharides; Bonds in biomolecules; Stereoisomerism in biomolecules; Structure of cell; Structure and function of cytoplasmic membrane, cell wall, outer membrane, glycocalyx, chromosomes, endospores, storage products, mitochondria and chloroplasts.

**Microbial metabolism:** Anabolism and catabolism; Phosphorylation; Glycolysis; TCA cycle; Electron transport chain; Fermentation; Anaerobic respiration; Energy balances; Enzymes and Enzyme kinetics.

**Growth and control of microorganisms:** Bacterial nutrition and growth; Specific growth rate and doubling time; Monod's model; Types of culture media; Batch and continuous culture; Effects of environmental factors on growth; Control of microbes using physical and chemical methods.

**Microbiology and health:** Pathogens and modes of transmission; Indicator organisms; Quantification of coliforms using MPN and membrane filtration techniques.

### Section 4: Water Resources and Environmental Hydraulics

**Global Water Resources:** Structure, properties and distribution of water; Water quality; Threats to water resources; Water conservation.

**Surface Water Resources:** Hydrological cycle and water balance - precipitation, infiltration, evapotranspiration, runoff; Flow hydrographs; Unit hydrographs; Stage-discharge relationship; Reservoir capacity; Reservoir and channel routing; Surface runoff models; Surface water management; Rain water harvesting and storage.

**Groundwater Resources:** Geologic formations as aquifers; Vadose and saturated zones; Confined and unconfined aquifers and their parameters - porosity, permeability, transmissivity and storage coefficient; Darcy's law and applications; Steady state well hydraulics.

**Environmental Hydraulics:** Concepts of mechanics; Properties of fluids; Pressure measurement; Hydrostatic force on surfaces; Buoyancy and flotation; Laminar and turbulent flow; Flow through pipes; Pipe networks; Boundary layer theory; Forces on immersed bodies; Flow measurement in channels and pipes; Kinematics of flow; Continuity, momentum and energy equations; Channel hydraulics - specific energy, critical flow, hydraulic jump, rapid and gradually varied flow; Design of lined and unlined channels.

## **Section 5: Water & Wastewater Treatment and Management**

**Water and wastewater quality parameters;** Eutrophication and thermal stratification in lakes; River pollution - Oxygen sag curve.

**Water treatment methods** - screening, sedimentation with and without coagulation, filtration, desalination, disinfection; Water distribution and storage

**Point and non-point sources of wastewater;** Population forecasting methods; Design of sewer and storm water sewers; Sewer appurtenances; Preliminary, primary, secondary and tertiary sewage treatment; Sludge generation, processing and disposal methods; Sewage farming.

**Sources and characteristics of industrial effluents;** Concept of Common Effluent

Treatment Plants (CETP); Wastewater recycling and zero liquid discharge.

**Kinetics and reactor design:** Mass and energy balance, Order and rate of reactions, Batch reactors, completely mixed flow reactors, Plug flow reactors.

## **Section 6: Air and Noise Pollution**

**Structure of the atmosphere;** Natural and anthropogenic sources of pollution; Atmospheric sources, sinks, transport; Indoor air pollution; Effects on health and environment; Air pollution: gases and particulate matter; Air quality standards; Primary and secondary pollutants; Criteria pollutants, ambient and source standards, air quality indices, visibility.

**Particulate pollutants:** measurement and control methods; Control of particulate air pollutants using gravitational settling chambers, cyclone separators, wet collectors, fabric filters (Bag-house filter), electrostatic precipitators (ESP).

**Gaseous Pollutants:** Measurement and control methods; Control of gaseous contaminants: absorption, adsorption, condensation and combustion; Control of sulphur oxides, nitrogen oxides, carbon monoxide, and hydrocarbons; Vapour-liquid and vapour-solid equilibria; Diffusion, Fick's law and interfacial mass transfer. Automotive emission controls, fuel quality, diesel particulate filters, catalytic convertors.

**Air quality management:** Point, line and area sources; Inventory; Influence of meteorology - wind rose diagrams, stability, mixing height, topography, dispersion modelling, monitoring. Noise pollution: Sources; Health effects; Standards; Measurement and control methods.

## **Section 7: Solid and Hazardous Waste Management**

**Integrated solid waste management;** Waste hierarchy; Rules and regulations for solid waste management in India.

**Municipal solid waste management:** Sources, generation, characteristics, collection and transportation, waste processing and disposal (including reuse options, biological methods, energy recovery processes and landfilling).

**Hazardous waste management:** Characteristics, generation, fate of materials in the environment, treatment and disposal.

Soil contamination and leaching of contaminants into groundwater.

Management of biomedical waste, plastic waste and E-waste: Sources, generation and characteristics; Waste management practices including storage, collection and transfer.

## **Section 8: Global and Regional Environmental Issues**

**Global effects of air pollution** – Greenhouse gases, global warming, climate change, urban heat islands, acid rain, ozone hole.

**Ecology and various ecosystems;** Biodiversity; Factors influencing increase in population, energy consumption, and environmental degradation.

## **Section 9: Environmental Management and Sustainable Development**

**Environmental Management Systems;** ISO14000 series; Environmental auditing; Environmental Impact Assessment; Life cycle assessment; Human health risk assessment

**Environmental Law and Policy** – Objectives; Polluter pays principle, Precautionary principle; The Water and Air Acts with amendments; The Environment (Protection) Act (EPA) 1986; National Green Tribunal Act, 2010; National Environment Policy; Principles of International Law and International treaties.

**Energy and Environment:** Energy sources – overview of resources and reserves; Renewable and non-renewable energy sources; Energy-Environment nexus.

**Sustainable Development:** Definition and concepts of sustainable development; Sustainable development goals; Hurdles to sustainability; Environment and economics.

## **8. Department of Mechanical Engineering (DME)**

### **Section 1: Engineering Mathematics**

**Linear Algebra:** Matrix algebra, systems of linear equations, eigenvalues and eigenvectors.

**Calculus:** Functions of single variable, limit, continuity and differentiability, mean value theorems, indeterminate forms; evaluation of definite and improper integrals; double and triple integrals; partial derivatives, total derivative, Taylor series (in one and two variables), maxima and minima, Fourier series; gradient, divergence and curl, vector identities, directional derivatives, line, surface and volume integrals, applications of Gauss, Stokes and Green's theorems.

**Differential Equations:** First order equations (linear and nonlinear); higher order linear differential equations with constant coefficients; Euler-Cauchy equation; initial and boundary value problems; Laplace transforms; solutions of heat, wave and Laplace's equations.

**Complex Variables:** Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem and integral formula; Taylor and Laurent series.

**Probability and Statistics:** Definitions of probability, sampling theorems, conditional probability; mean, median, mode and standard deviation; random variables, binomial, Poisson and normal distributions.

**Numerical Methods:** Numerical solutions of linear and non-linear algebraic equations; integration by trapezoidal and Simpson's rules; single and multi-step methods for differential equations.

### **Section 2: Applied Mechanics and Design Engineering Mechanics:** Free-body

diagrams and equilibrium; friction and its applications including rolling friction, belt-pulley, brakes, clutches, screw jack, wedge, vehicles, etc.; trusses and frames; virtual work; kinematics and dynamics of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations; Lagrange's equation.

**Mechanics of Materials:** Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; concept of shear centre; deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength.

**Theory of Machines:** Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; cams; gears and gear trains; flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.

**Vibrations:** Free and forced vibration of single degree of freedom systems, effect of damping; vibration isolation; resonance; critical speeds of shafts.

**Machine Design:** Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; principles of the design of machine elements such as bolted, riveted and welded joints; shafts, gears, rolling and sliding contact bearings, brakes and clutches, springs.

### **Section 3: Fluid Mechanics and Thermal Sciences**

**Fluid Mechanics:** Fluid properties; fluid statics, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary

layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fittings; basics of compressible fluid flow.

**Heat-Transfer:** Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence; heat exchanger performance, LMTD and NTU methods; radiative heat transfer, Stefan-Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis

**Thermodynamics:** Thermodynamic systems and processes; properties of pure substances, behavior of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.

**Applications:** Power Engineering: Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. I.C. Engines: Air-standard Otto, Diesel and dual cycles. Refrigeration and air-conditioning: Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychrometric chart, basic psychrometric processes. Turbomachinery: Impulse and reaction principles, velocity diagrams, Pelton-wheel, Francis and Kaplan turbines; steam and gas turbines.

### **Section 4: Materials, Manufacturing and Industrial Engineering**

**Engineering Materials:** Structure and properties of engineering materials, phase diagrams, heat treatment, stress-strain diagrams for engineering materials.

**Casting, Forming and Joining Processes:**

Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design. Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy. Principles of welding, brazing, soldering and adhesive bonding.

**Machining and Machine Tool Operations:**

Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, jigs and fixtures; abrasive machining processes; NC/CNC machines and CNC programming.

**Metrology and Inspection:** Limits, fits and tolerances; linear and angular measurements; comparators; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly; concepts of coordinate-measuring machine (CMM).

**Computer Integrated Manufacturing:**

Basic concepts of CAD/CAM and their integration tools; additive manufacturing.

**Production Planning and Control:**

Forecasting models, aggregate production planning, scheduling, materials requirement planning; lean manufacturing.

**Inventory Control:** Deterministic models; safety stock inventory control systems.

**Operations Research:** Linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM.

## 9. Department of Geospatial Science and Technology (DGST)

**Basics of Geospatial Science, Geospatial Technologies,** Fundamentals of Geoinformatics, Geomatics, Remote Sensing and GIS

**Geomatics Engineering-** Definition, Importance and its relevance to engineering projects, Multi-concept, Big geospatial data.

**Maps -** Types of maps, Scales and uses, Plotting accuracy, Map sheet numbering, Coordinates, datums and map projections.

**Advance Surveying/GPS/GNSS-** Total Stations, GPS/DGPS, Drone, LIDAR Survey, Principles and Components of GPS, NaviC. Data collection methods, DGPS, Errors in observations and corrections DEM/DSM.

**Aerial Photogrammetry-** Types of photographs, Flying height and scale, Relief (height) displacement, Stereoscopy, 3-D Model, Height determination, Digital Elevation Model (DEM), Slope.

**Remote Sensing-** Electromagnetic spectrum, Spectral signature, Resolutions Spectral. Spatial, Temporal and Radiometric, Platforms and Sensors, Remote Sensing.

**Data Products-** Pan, Multispectral, hyperspectral, Microwave, Thermal, Hyperspectral, Introduction to visual and digital image interpretation techniques.

**GIS and Web GIS-** Introduction, Creation of database (spatial and non-spatial), Vector and Raster data, Spatial analysis-Buffer, Overlay, Applications in infrastructure planning, 3D visualization, Disaster mapping, Land-use change.

**Digital Image Processing,** - Image acquisition, Image enhancement techniques, Image restoration, color image processing, multi resolution processing, compression, morphological processing, segmentation, parametric and non-parametric methods of classification, soft classification, wavelets, SVM, ANN, CNN, Deep learning/Machine learning, image processing software

**TABLE-7**

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Computer Science and Engineering/ Information Technology/ Software Engineering	<a href="mailto:mtechcseitswe2026@gmail.com">mtechcseitswe2026@gmail.com</a>
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# Delhi Technological University

Established by the Govt. of NCT of Delhi vide Act 6 of 2009

(Formerly Delhi College of Engineering)

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