Delhi Technological University

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

ISO 9001: 2015 Certified

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





ADMISSION BROCHURE M. TECH.

PROGRAMMES
2 0 2 3 - 2 4



ADMISSION SCHEDULE WITH IMPORTANT DATES

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

S. No.	Activity/Event	Valid GATE score holder Candidates	DTU Merit list-based Candidates (Non-GATE)
1.	Advertisement in Newspapers	25.05.23 (Thursday)	25.05.23 (Thursday)
2.	Opening of website for Online Registration	25.05.23 (Thursday)	25.05.23 (Thursday)
3.	Last Date for Online Registration	18.06.23 (Sunday)	18.06.23 (Sunday)
4.	Display of list of eligible candidates on DTU website	24.06.2023 (Saturday)	24.06.2023(Saturday)
5.	Issue of Admit card for non-GATE/Part-Time candidates for admission test	NA	30.06.2023(Friday)
6.	Admission test for Non-GATE/Part-Time candidates	NA	05.07.2023 (Wednesday)
			06.07.2023 (Thursday)
7.	Result of Admission test	NA	08.07.2023 (Saturday)
8.	Merit list Programme wise	NA	13.07.2023 (Thursday)
9.	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 page no. 29)	29.06.2023 (Thursday) at 10:00 am	19.07.2023 (Wednesday) at 10:00 am
10.	Submission of Freezing Forms in the department	29.06.2023 (Thursday) by 5:00 PM	NA
11.	Display of vacant seats for spot round on DTU website	01.07.2023 (Saturday)	To be declared later
12.	*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 page no. 29)	04.07.2023 (Tuesday) at 10:00 am	To be declared later
13.	Last Date of Admission	29.06.2023 (Thursday)	19.07.2023 (Wednesday)

^{*} Subject to the availability of vacant seats, an additional spot round may be conducted if needed.

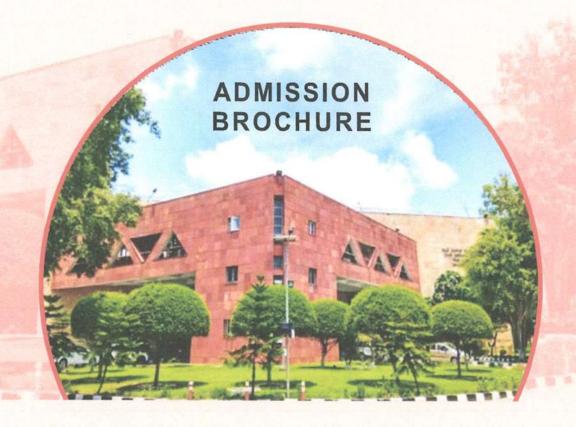
Note: All candidates desirous of seeking admission to M.Tech Programme are hereby advised to read the brochure carefully and visit the website www.fl.ab. regularly for updates and other details/additional information about the entire admission process. The content and information provided in the admission 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.





Delhi Technological University

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M. TECH.

PROGRAMMES
2 0 2 3 - 2 4

DELHI TECHNOLOGICALUNIVERSITY



M. TECH PROGRAMMES 2 0 2 3 - 2 4



दिल्ली प्रौद्योगिकी विश्वविद्यालय DELHI TECHNOLOGICAL UNIVERSITY



Established by Govt. of Delhi vide Act 6 of 2009

(Formerly Delhi College of Engineering)

Prof. Jai Prakash Saini Vice-Chancellor



Message

It is my immense pleasure to announce that Delhi Technological University is commencing postgraduate courses admissions for the academic year 2023–24 in May 2023.

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 extracurricular 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. Jai Prakash Saini)

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Annexure-1: Details of the eligibility conditions and qualifying degree requirements for GATE Qualified Candidates

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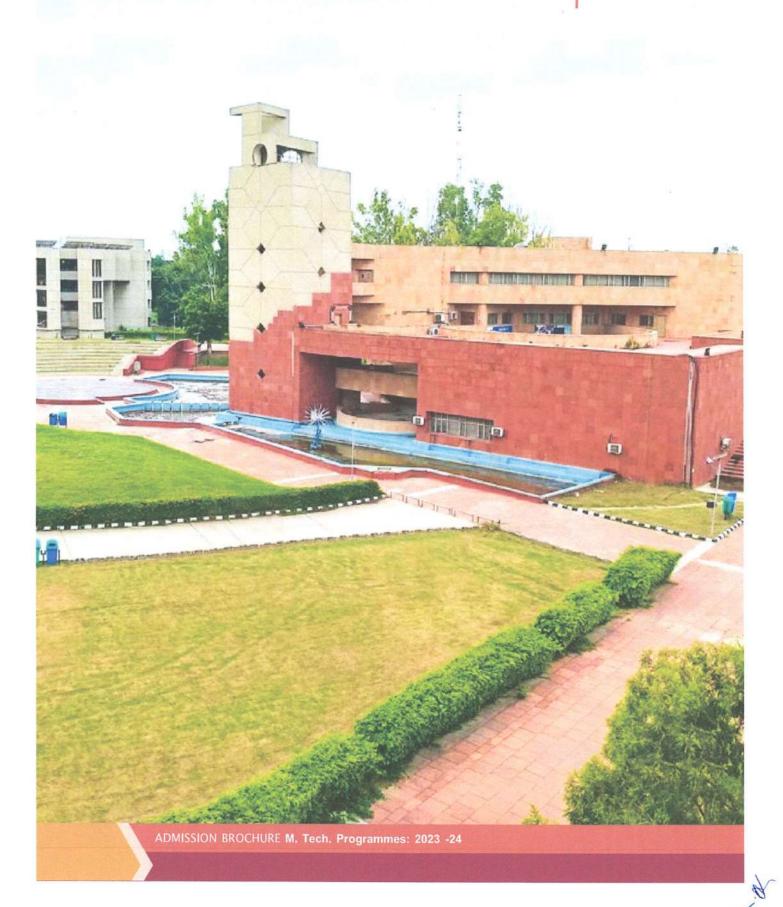
General Instructions

- The application forms can be accessed at the web portal of the University website at: 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 candidates 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.
- 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).
- 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 31st March, 2023.
- 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

About DELHITECHNOLOGICALUNIVERSITY



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

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 ecosystemfor incubation, product development, transfer of technology andentrepreneurship.

To create environment of collaboration, experimentation, imagination and creativity.

To develop human potential with analytical abilities, ethicsand 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 14 Undergraduate engineering programmes (B.Tech.) and three bachelor programmes [i.e. B.Des., BBA, BA (Hons.) Economics], 25 M.Tech. programmes, 5 MBA programmes, 4 M.Sc. programmes, MA (Economics) and M.Des. Programme. The university offers Ph. D programmes in all areas of engineering, science, management 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 well qualified in their area of specialization and have very good national and international exposure. To engage the students and faculty in research and innovation the university offers provisions like funding for students' innovative projects, financial assistance to students for attending internship overseas, research project grants to all faculty members etc. To celebrate the individual's excellence in research, the university gives **Research Excellence Awards** to researchers in three categories of awards annually, namely, *Outstanding Research Awards*, *Premier Research Awards*, and *Commendable Research Awards*. The awards are open to all the researchers of DTU. The University provides funds to faculty and students to organize and attend various faculty development programs, seminars, and conferences.



Ranking and Rewards

The University is accredited with 'A' grade by NAAC (National Assessment and Accreditation Council) and has been accorded 12-B status by the University Grants Commission (UGC). Several of its UG engineering programs are also accredited by the National Board of Accreditation (NBA). The university has also been consistently ranked among best 10 engineering institutions as per the various independent Surveys on Best Engineering Institutions of the country. The university has got 1st position as per Times Engineering Ranking 2022 (Engineering Institutes). The University has been ranked 7th by India Today's best government engineering colleges ranking 2022. The 2022 NIRF rankings placed DTU at the 35th position among the engineering institutions and at 38th in the categories of universities. DTU has been placed at 601-800 bracket in the Times Higher Education World University Ranking 2023. DTU has got 2nd position in Atal Ranking of Institutions on Innovation Achievements (ARIIA Ranking -2021) in the category of University & Deemed to be University (Govt. & Govt. Aided) (Technical).

Campus and Infrastructure

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

Computer Centre

DTU has a well-equipped centralized computer centre to cater to the needs of students and faculty in the university. It is housed, in a magnificent state-of-the-art building having specialized laboratories to provide variety of platforms and computing environment for UG, PG and research students. The centre possesses a number of servers and over 275 Dell intel core i5 computer systems. In addition, the centre has more than 15 servers hosting different applications such as websites & portals, SPSS, Mathematica, MatLab, DNS, LDAP, proxy, Email services, Network Monitoring System (NMS) etc. and 4 SUN CAD workstations meant for use by UG/PG/PhD students for their projects and research work. The center is networked through high-end intelligent Juniper/Avaya/CISCO/Brocade/Ruckus manageable switches and possesses round the clock two leased lines of 10 Gbps link of NKN and 1Gbps link of



Reliance Jio with shared bandwidth in different pipes for the Wi-Fi connectivity in the Library, Academic Departments, Administrative Blocks, Sports Complex, Faculty Residence and Hostel blocks of the campus, with internet facilities on all the nodes. It also has the latest versions of compilers, scientific, technical and engineering software, training kits etc. for the students of different branches of engineering.

Library and Knowledge Centre

Delhi Technological University library, with a collection of more than 2,00,000 text and reference books and a large number of e-journals, e-books, manuscripts in digital format, is one of the highly rich engineering libraries in the country. Library provides remote access facility to all its readers by using cloud based remote access software. The library also helps researchers to maintain proper integrity and ethics and provides the facility of similarity check to avoid instances of plagiarism. It has a very active presence on Facebook. Various current awareness services and user information literacy programs are continually organized throughout the year. The library building is a four storied, aesthetically designed, centrally airconditioned structure with a seating capacity of 400. Library is updated regularly by way of adding new literature in the form of text books, reference books, reports, proceedings, abstracts & indexes, encyclopaedias, data books, standards (National & International), Journals & database on CD-ROM.

Hostel

Hostel life is one of the most enjoyable and memorable time of one's life. There are 11 boys' hostels and 3 girl's hostels in DTU, besides, one separate hostel for international students (boys). Each hostel in the campus gives each individual ample opportunity to develop various qualities as each hostel is equipped with recreation room, reading room, mess and gymnasium. Additionally, every hostel subscribes to the latest magazines and newspapers for the residents. The hostels are connected to the campus via the campus wide wi-fi network and LAN which enables the residents to browse the internet and access the online library resources for their academic and research related work. The information of all available accommodation will be posted on the University website. However, limited seats could be provided inside the University premises. In addition, the mess facility at the University can be availed by all the students.

Centre for extension & field outreach

Centre for Extension and Field Outreach was established in DTU in the year 2018. The various activities/ program performed by the Centre is to sensitize the students to develop social values, widespread their responsibilities and knowledge in societal issues and problems by making them to involve with the community people. DTU is a Participating Institute under



"Unnat Bharat Abhyan"- a Project of Ministry of HRD, Govt. of India and adopted five villages and are conducting classes in their schools. Directorate of Education, Govt. of NCT of Delhi awarded a Project "Youth for Education" and has launched "Desh Ke Mentor", which is one of the largest mentoring program in school education. Centre has also started a certificate course titled as "Basic Computer Course" Under Lab on Wheels (LOW) Scheme for the candidates from the Government Schools of NCT of Delhi or from society. Centre at DTU is coordinating with Delhi Police conducting Skill development program through one-month basic computer training to Juveniles in conflict with law/ weaker section in Rohini. Centre is regularly organizing Seminars/ online

webinars/ workshops/ Awareness programs etc and is working towards increasing productivity, enhancing skills and abilities, focusing on growth and helping people to work on their own future development.

Innovation and incubation foundation (DTU-IIF)

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

Sports and Other Outdoor Activities

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

sports have big share of electives.

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

DCE-DTU Alumi Network

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

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

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

Events and Festivals

The university organizes annual cultural, literary, sports and technical festivals. These festivals not just provide an opportunity to the students to connect with the professional world, but also display their creative and technical skills in several interesting events and activities organized during the fests. The ENGIFEST, one of the most well attended student's cultural event in northern India and the YUVAAN, the literary Fest, is annual cultural extravaganza of the university and offers a good mix of literary, cultural, and entertainment events. The "INVICTUS" is annual technical festival of the university where all technical societies of the university host various technical activities and competition. The AAHVAAN is the annual sports fest organized by DTU sports council.

Medical Facilities

DTU has a well-equipped health care centre. 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.



M. TECH. PROGRAMMES

The university offers 25 M. Tech programmes in various disciplines of Engineering and Technology 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	Polymer Technology (PTE)	25
2.	Applied Physics	2. Material Science & Technology (MST)	25
2	Dietaskaalees	3. Bioinformatics (BIO)	25
3.	Biotechnology	4. Industrial Biotechnology (IBT)	30
U		5. Geotechnical Engineering (GTE)	25
4.	Civil Engineering	Hydraulics & Water Resources Engineering (HRE)	24
7.	Civil Engineering	7. Structural Engineering (STE)	25
		8. Geoinformatics (GINF)	18
-	Computer Science	computer Science 9. Computer Science & Engineering (CSE)	
5. and Engineering	and Engineering	10. Artificial Intelligence (AI)	30
6.	Information Technology	11. Information Technology (IT)	25
7.	Electronics & Communication Engineering	12. Microwave & Optical Communication Engineering (MOC)	25
		13. Signal Processing & Digital Design (SPD)	25
		14. VLSI Design and Embedded System (VLS)	25
	FI. I.I.I	15. Control & Instrumentation (C&I)	25
8.	Electrical Engineering	16. Power System (PSY)	25
	Lingineering	17. Power Electronics and Systems (PES)	30
9.	Environment Engineering	18. Environmental Engineering (ENE)	25
		19. Production Engineering (PRD)	25
	Mechanical	20. Thermal Engineering (THE)	25
10.	Engineering	121 Industrial Engineering and Management (IEM)	
	Linginicoming	22. Energy Systems and Management (ESM)	30
		23. Computer Aided Analysis and Design((CAAD)	30
11	Software	24. Software Engineering (SWE)	25
11	Engineering	25. Data Science (DS)	30

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 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 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 thedate of admission may also apply. Such candidates will be required to submit a certificate as per the Performa given in Annexure-5 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**, **2023**, 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 categories is available at Annexure-3.

2.2 Full-Time Sponsored Candidates

05 seats (supernumerary) each are available in all the 25 M. Tech. programmes offered by the University subject to the provisions given below:

a. Candidate employed in Educational Institutions/Universities. organizations, and Government Department. Public 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 30.09.2023; 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-10 on a proper letter head from the appropriate authority in the organization clearly stating the following:
 - For the period of his/her studies in the programme, the candidate would be treated as on duty with usual salary and allowances, and
 - 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 abovementioned eligibility conditions, along with the minimum educational qualifications as given in Annexure-1 should contact DRDO authorities for sponsorship.
- d. Admission to the Sponsored Full-Time M. Tech programmes (except for DRDO sponsored candidates) will be made on the basis of admission test/interview (If shortlisted) by the respective department from amongst the candidates who have registered online. These candidates in merit list must have fulfilled all the eligibility criteria as specified for that programme.

2.3 Part-Time Candidates (Three years' duration)

University also offers Part timeprogramme in all the 25 M. Tech. programmes of Engineering and Technology listed in above Table. Thenumber of part time seats are 12-13 (Supernumerary)in each course subject to the provisions given below. The detailed seat matrix indicating seats in various departments under different categories is available at Annexure-4.

- 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.
- b) Admission to the Part-Time M. Tech. programmes will be made on the basis of admission test as described in Full Time Non-GATE candidates section (2.4) by DTU. These candidates in merit list must have fulfilled all the eligibility criteria as specified for that programme. However, If the number of applicants is less than the number of seats then the admission may be done on the basis of an interview (if shortlisted) conducted by the respective department from among the candidates who have registered online.
- c) The part-time students will berequired 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.
- d) The status of a part-time student will not be changed from part-time to full-time student.
- e) Part-time candidates are required to submit a "No Objection Certificate" as per Annexure-11 on a letter head from the appropriate authority in the organization clearly stating the following:
- The candidate is permitted to pursue studies on a part-time basis.
- That his/her official duties permithim/her to devote sufficient timefor studies.
- That he/she will not be transferred to any



other place during the period of study.

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

- a. Candidates not having a valid GATE score can also apply for admission to M.tech Programme and selection will be based on merit list prepared after admission test conducted by DTU. Tentative dates for admission test and downloading of the admit cards are 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 GATE score. Valid GATE score holders will be given first preference and then the candidates seeking admission under the non-GATE category will be considered.
- 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 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., CS, EE, EC, CE, ES, PH, CH, ME and BT (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 = (No. of candidates appeared in the admission test – candidate rank) / (Total No. of candidates appeared in the admission test in which you have appeared)

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

- 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.
- 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. 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.
- c. 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.
- d. The stipend for the assistantship shall be paid at the approved rates as notified by the



University from time to time.

- e. In case of unsatisfactory performance of candidate in discharging academic duties assigned by department poor or academic performance, the University may discontinue the financial assistance on the recommendation of concerned Head of the department.
- f. 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.
- 3. Reservation of Seats for Different Categories and Relaxation **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 2023-24.

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 disabilities will be implementeddepartment wise. Candidates seeking admission must fulfil the eligibility conditions as detailed earlier. The 5% reservation horizontally in seat matrixfor persons with disability may be allocatedas follows.

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

- (d) and (e).
- a. Blindness and low vision;
- b. Deaf and hard of hearing;
- Locomotor disability including cerebral palsy, leprosy cured, dwarfism, acidattack victims and muscular dystrophy;

Autism, intellectual disability, specific learning disability and mental illness;

- Multiple disabilities from amongst persons under clauses (a) to (d) including deafblindness.
- Physically handicapped applicants e. permitted 5% marks of equivalent CGPA relaxation in eligibility requirement in line with the policies of Govt. of NCTof 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 shallbe converted as per the details given belowon the day of spot round of counselling.

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 25 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 2023, all candidates need to register and fill the application ONLINE only by accessing www.dtu.ac.in from May 25, 2023 to

June 18, 2023. The guidelines indicated in the online application form must be carefully read by all applicants before filling the application form. The application form processis 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 would be sent a separate link to upload their graduation marks by September 30, 2023.

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 timeof registration and choice filling. charge (online transaction) will be extra as per banking gateway on every online registration fee payment.

Theregistration 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.

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.

41 Rules for Seat Allotment

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

- Merit list will be prepared on the basis of GATE score.
- To resolve and determine inter-se-merit of candidateshaving same GATE score, following criterion will be used in the stated order of preference.
- Candidates having GATE scorein 2023 will be given preferenceover candidates having score of 2022 or 2021.
- Candidates having GATE scorein 2022 will be given preferenceover candidates having score of2021.
- If the year of GATE score issame, then preference will be given to that candidate who hasobtained higher GATE marks out of 100.
- In unlikely event of their GATE marks out 100 and the year of GATE score being the same, thenpreference will be based on the All-India Rank (AIR)
- 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.
- 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) programmes

Merit List shall be prepared on the basis of percentage of marks in the qualifying degree.

In case CGPA or conversion formulahas 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 ofBirth, then marks in Class- XII will beconsidered.
- The selected candidates needto submit the minimum one-year completion employment certificate by 30.09.2023.

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

C For M. Tech (Part-Time)

- In case of examination conducted for Part-Time, merit list shall be prepared on the basis of Admission test conducted by DTU.
- In case of interview (If number of applicants is less than seats approved)- Merit List shall be prepared on the basis of percentage of marks in the qualifying degree.

In case CGPA or conversion formulahas 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 ofBirth, then marks in Class- XII will beconsidered.

 The selected candidates need to submit the minimum one-year completion employment certificate by 30.09.2023.

In case, the candidate fails to submit the oneyear 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 BTech upto 7th semester will be considered. Candidates with highest percentage of marks will be given preference.
 - Inhighlyunlikely 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 ofBirth, then marks in Class- XII will beconsidered.
- Admission to all M. Tech. programmes shall be done on the basis of valid GATE score. Valid GATE score holders will be given first preference and then the candidates seeking admission under the non-GATE category will be considered.
 - 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.



42 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 and department notice boards. In case some seats remain unfilledthen 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 back to the respective department. Admission shall not be valid without payment of fee and submitting fee receipt the to department.
 - c. The candidates shall have to produce the relevant documents (as notified in Section 6 page no 29) 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 shallbe 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 freezed 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 takean NOC from the parent department and deposit the original fee receiptalong with the other documents in the new department. He/she willnot have to deposit fresh fee for the admission in the new department.

43 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.
- 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 authorize their physically can 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 <u>DD in</u> <u>favour of "Registrar, Delhi</u> <u>Technological University" payable at</u> <u>New Delhi</u> 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.

- 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.

44 NOTE

- a. If admissions made in any M.Tech programme are less than 1/3 of thetotal seats as approved by AICTE in the respective branch, then the branch will remain suspended for the respective Academic year.
- b. In such a case i.e. where admissionsmade are less than 1/3, the studentshave the provision to transfer their admission subject to their eligibility and availability of seats in the respective M.Tech. branch.
- c. In case, the vacant seats are not available in the desired M.Tech. programme, 100% of the fee shall be refunded.
- d. 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 programmewill have to be deposited thecandidate at the time of admission in the form of a DD drawn in favour of the <u>"Registrar, Delhi Technological University payable at New Delhi".</u>

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:

Master of Technology (M. Tech) Full Time/Sponsored Full Time

	waster of rechnology (w. rech) run rime/sponsored run rime						
S. No.	Particulars	AY 2023-24 1stYear (Rs.)	AY 2024-25 2 nd Year (Rs.)				
1.	Tuition Fee	1,05,500/-	1,05,500/-				
2.	Non Govt. Component						
2.1	Student Welfare Fee (Co-curricular activities, Training & 18,000/- 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)						
S. No.	Particulars	AY 2023-24 1stYear (Rs.)	AY 2024-25 2 nd Year (Rs.)				
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/-				
2.3	Economically weaker section fund	5,000/-	5,000/-				
2.4	Examination fee (Examination Infrastructure strengthening, expenditure on examination activities, confidential printing etc.	15,000/-	15,000/-				
2.5	Premium amount for mediclaim of student (per-annum)	700/-	700/-				
	GRAND TOTAL	1,69,200/-	1,69,200/-				



Master of Technology (M. Tech) Part Time

S. No.	Particulars	AY 2023-24 1stYear (Rs.)	AY 2024-25 2 nd Year (Rs.)	AY 2025-26 3 rd Year (Rs.)
1.	Tuition Fee	99,500/-	1,05,500/-	1,05,500/-
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)	20,000/-	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)	28,000/-	25,000/-	25,000/-
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.	13,000/-	15,000/-	15,000/-
2.5	Premium amount for mediclaim of student (per-annum)	500/-	700/-	700/-
	GRAND TOTAL	1,66,000/-	1,69,200/-	1,69,200/-

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:

S. No.	Percentage of Refund of aggregate fee	Point of time when application for withdrawal of admission received
1.	100%	30.06.2023 in case of GATE candidates and 19.07.2023 in case of Non-GATE candidates
2.	NIL	After last date of admission, no refund will be there

Note: <u>Last date of admission is 29.06.2022</u> for GATE candidates and 19.07.2023 for Non-GATE candidates. Any change will be notified separately on DTU website. Candidates are advised to visit DTU website www.dtu.ac.in regularly for notification.

6. Documents Required

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 of "Registrar, favour Delhi Technological University payable at New Delhi". The entire process can be converted into online mode 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-5.
- 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, 2023 from the authorities as mentioned in Annexure-6. However, if the certificate is issued prior to March 31, 2023, it must be accompanied with an additional certificate regarding the present non-creamy layer statusof 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 certificatesin original at the time of document verification as per **Annexure-7**.
- 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-8 not later than 31st March, 2023.
- 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-9.
- 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-10.
- A 'No objection Certificate' for Part-time candidates as per Annexure-11.
- m. In case of non-availability of latest category certificate i.e. EWS and OBC , candidate can submit an undertaking given in Annexure-12 and Annexure-13 respectively at the time of application filing or during admission.



ANNEXURE-1

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 theprogrammes i.e. two years to the full time students for M. Tech.

S. No.	Department/ Programme Name	Qualifying GATE Subjects	Qualifying Degree
1.	APPLIED CHEMISTRY		
	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 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.
2.	APPLIED PHYSICS		
	Material Science & Technology (MST)	PH/CY/XE/ EE/EC/MT/ CY/CH/BT/ ME/TF/CH/ PI/XL/CE/ CS/IN/AE	M.Sc. / B.E. / B.Tech. in Physics / Applied Physics/ Chemistry/ Material Science/ Nuclear Physics/ Solid State Physics/ Astrophysics/ Electronics/ Electrical/ Biotechnology/ Allied life Science/ Engineering Physics / Biophysics/ Biochemistry/ Environmental Science/ M.Sc. (CS/IT with Mathematics, Physics and Chemistry at B.Sc. level)
3.	BIOTECHNOLOGY		
	Bioinformatics (BIO)	BT/XL/PY/ CS/ EC	B.Tech/ M.Sc. degree in Biotechnology/ Bioinformatics / Biomedical Engineering/ Biochemical Engineering/ Life Sciences/ Biochemistry/ Computer Science/ Electronics & Communications/ Pharmaceutical Sciences & Technology.



S. No.	Department/Progr ammeName	Qualifying admission test	QualifyingDegree
	IndustrialBiotechnolog y(IBT)	BT/ES	B.Tech/M.Sc.degree/degree in Biotechnology /Bioinformatics/BiomedicalEngineering/BiochemicalEngineering/Life Sciences/Biochemistry/Zoology /Botany/PlantMolecularBiology/Microbiology /EnvironmentalSciences/AgricultureSciences/PharmaceuticalSciences&Technology.
4.	CIVILENGINEERING		
	GeotechnicalEngineer ing(GTE) Hydraulics &WaterResourcesEngineering (HRE)	CE	B.Tech./B.E.DegreeinCE
	StructuralEngineering (STE)		
5.	COMPUTERSCIENCE	ANDENGINEER	RING
	ComputerScience&En gineering(CSE) Artificial Intelligence(AI)	CS/EC/EE	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)
6.	INFORMATIONTECH	NOLOGY	
	InformationTechnolog y (IT)	CS/EC/EE	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)
7.	ELECTRONICS&COM	MUNICATIONS	
	MicrowaveandOptical Communication(MOC)	EC/PH	B.E./B. Tech. Exam in ECE/ EP/ M.Sc. Electronics/ M.Sc.in Physics with Electronics/ Radio Physics/ SolidStatePhysics.
	SignalProcessing&DigitalDesign(SPD) VLSI Design andEmbeddedSystem(EC/CS/EE	B.E./B.TechExaminElectrical and Electronics/ Electronics & Instrumentation/Electronics & Computer Engg/Electronics & control/Applied Electronics and Instrumentation Engg./Electronics Intsrumentation& control Engg./Electrical
0	VLS)	PINO	
8.	Control &Instrumentation(C &I)	EE/EC	B.Tech./B.E.ExaminEE/EEE/ECEC&I
	PowerSystem(PSY)	EE	B.Tech./B.E.ExaminEE/EEE
1	PowerElectronicsAnd	EE	B.Tech./B.E.ExaminEE/EEE/C&I
	Systems(PES)		

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	Power Electronics And Systems (PES)	EE/EEE/C&I	B. Tech./B.E .Exam in EE/EEE/C&I
9.	ENVIRONMENT ENGINE	EERING	
	Environmental Engineering (ENE)	CE/ XL/CH/ES	B. Tech./B.E. Exam in EN/CE/BT/CH/ PT
10.	MECHANICAL ENGINEE	RING	
	Production Engineering (PRD)	ME/PI	B. Tech / B.E. in ME / PE / Industrial / Manufacturing Science/ Welding Technology / Automation Engineering.
	Thermal Engineering (THE)	ME/PI	B.Tech/B.E. in ME/PE/AE/ Manufacturing Science / Automation Engineering
	Industrial Engineering and Management (IEM)	Any branch of Engineering	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)	Any branch of Engineering	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)	ME/PI/CE	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.
11	SOFTWARE ENGINEERI	NG	
	Software Engineering (SWE)	CS/IT	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/
	Data Science (DS)	CS/IT	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).
12	MULTI-DISCIPLINARY	CENTRE FOI	R GEO-INFORMATICS
	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/AMIIChE/AMIIM/Grad IETE, who possess B.Sc. or Diploma inengineering are also eligible to apply for admission to M. Tech. courses.

ANNEXURE-2

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.

S. No.	Department/ Programme Name	Qualifying admission test	Qualifying Degree
1.	APPLIED CHEMISTR	Υ	
	Polymer Technology(PTE)	BT/ ES/CH/ME	B.E./B. Tech/M.Sc./Integrated M.Sc. in any of thefollowing 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.
2.	APPLIED PHYSICS		
	Material Science & Technology (MST)	PH/EC/EE/ BT/ES	M.Sc./B.E./B.Tech. in Physics/Applied Physics/Chemistry/ Material Science/ Nuclear Physics/ Solid State Physics/ Astrophysics/ Electronics/ Electrical/ Biotechnology/ Allied life Science/ Engineering Physics / Biophysics/ Biochemistry/ Environmental Science/ M.Sc. (CS/IT with Mathematics, Physics and Chemistry at B.Sc. level)
3.	BIOTECHNOLOGY		
	Bioinformatics (BIO)	BT/CS/EC	B.Tech/ M.Sc. degree in Biotechnology/ Bioinformatics / Biomedical Engineering/ Biochemical Engineering/ Life Sciences/ Biochemistry/ Computer Science/ Electronics & Communications/ Pharmaceutical Sciences & Technology.



S. No.	Department/Prog	Qualifying GATE	QualifyingDegree
	IndustrialBiotechnol ogy(IBT)	Subjects BT/XL	B.Tech/M.Sc.degree/degreeinBiotechnology /Bioinformatics/BiomedicalEngineering/BiochemicalEngineering/LifeSciences/Biochemistry/Zoology /Botany/PlantMolecularBiology/Microbiology /EnvironmentalSciences/AgricultureSciences/Pharm aceuticalSciences&Technology.
4.	CIVILENGINEERING		
	GeotechnicalEngi neering(GTE)	CE	B.Tech./B.E.DegreeinCE
	Hydraulics &WaterResources Engineering(HRE)	CE	
	StructuralEngine ering(STE)	CE	
5.	COMPUTERSCIENCEAN	NDENGINEER	ING
	ComputerScience&Engin eering(CSE)		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/I
	Artificial Intelligence(AI)	CS/IT	CT/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)
6.	INFORMATIONTECHNO	LOGY	
	InformationTechnolo gy(IT)	CS/IT	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/I CT/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)
7.	ELECTRONICS&COMM	UNICATIONS	ENGINEERING
	MicrowaveandOptical Communication(MOC)	EC/PH	B.E./B. Tech. Exam in ECE/ EP/ M.Sc. Electronics/ M.Sc.in Physics with Electronics/ Radio Physics/ SolidStatePhysics.
	SignalProcessing&D igitalDesign(SPD)	EC	B.E./B.TechExaminElectrical and Electronics/ Electronics & Instrumentation/Electronics & Computer Engg/Electronics
	VLSI Design andEmbeddedSystem(V LS)	EC	& control/Applied Electronics and Instrumentation Engg./Electronics Intsrumentation& control Engg./Electrical
8.	ELECTRICALENGINEERI	NG	

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S. No.	Department/ Programme Name	Qualifying admission test	Qualifying Degree							
9.	ENVIRONMENT ENGINEERING									
	Environmental Engineering (ENE)	ES/CE/BT/ CH	B. Tech./B.E. Exam in EN/CE/BT/CH/ PT							
10.	MECHANICAL ENGINEERING									
	Production Engineering(PRD)	ME	B. Tech / B.E. in ME / PE / Industrial / Manufacturin Science/ Welding Technology / Automation Engineering.							
	Thermal Engineering (THE)	ME	B.Tech/B.E. in ME/PE/AE/ Manufacturing Science / Automation Engineering							
	Industrial Engineering and Management (IEM)	CS/EE/EC/ BT/CE/ES/ ME /PH/CH	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)	CS/EE/EC/ BT/CE/ES/ ME /PH/CH	Students with a Bachelor degree (4-years degreePrograms; 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/CE	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.							
11	SOFTWARE ENGINEERING									
	Software Engineering (SWE)	CS/EC/EE	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/							
	Data Science (DS)	CS/EC /EE	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).							
12	MULTI-DISCIPLINAR	Y CENTRE F	OR GEO-INFORMATICS							
	Geoinformatics (GINF)*	EC/ES /PH//CS/ME /EE/CE	(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 / EnvironmentScience /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	12	Instrumentation Engineering	IN
2	Agricultural Engineering	AG	13	Mathematics	MA
3	Architecture and Planning	AR	14	Mechanical Engineering	ME
4	Biotechnology	BT	15	Mining Engineering	MN
5	Civil Engineering	CE	16	Metallurgical Engineering	MT
6	Chemical Engineering	СН	17	Life Sciences	XL
7	Computer Science and Information Technology	CS	18	Physics	PH
8	Chemistry	CY	19	Production and Industrial Engineering	PI
9	Electronics and Communication Engineering	EC	20	Textile Engineering and Fiber Science	TF
10	Electrical Engineering	EE	21	Engineering Sciences	XE
11	Environmental Science & Engineering	ES			

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	

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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, AutomotiveEngineering	AE	Metallurgical and Material Science, Metallurgical Engineering	MT
Production, Production & Industrial Engineering, Industrial Engineering	PE	Biotechnology, Industrial Biotechnology, Bioinformatics	ВТ
Control & Instrumentation, Instrumentation & Control Engineering	C&I	Chemical Engineering	СН
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		Informatics	Inf
Information Technology and Mathematical Innovations	IT&MI	Computer Technology	СТ
Computer Science & Engineering	CSE		



Seat Matrix for M.Tech. (Full Time) Programmes for the Session 2023-24

		AC	AC AP			CE					SE	П	SE	
Category	Department/ Branch	PTE	MST	вю	IBT	GTE	HRE	STE	GINF	CSE	Al	ISY	SWE	DS
		1	2	3	4	5	6	7	8	9	10	11	12	13
GN	GNGN	10	9	10	11	9	10	10	7	11	11	10	10	12
GIV	PwDGN		1		1	1		1		1	1		1	
Total GN S	Seats	10	10	10	12	10	10	11	7	12	12	10	11	12
sc	SCGN	3	4	4	5	3	2	3	3	5	5	4	3	5
SC	SC-PwD	1					1							
Total SC S	eats	4	4	4	5	3	3	3	3	5	5	4	3	5
ST	STGN	2	2	1	2	2	2	2	1	2	2	2	2	2
51	ST-PwD			1										
Total ST S	eats	2	2	2	2	2	2	2	1	2	2	2	2	2
	OBCGN	5	6	5	8	7	7	7	4	8	8	6	7	7
OBC	OBC-PwD	1		1					1			1		1
Total OBC	Seats	6	6	6	8	7	7	7	5	8	8	7	7	8
	EWSGN	3	3	3	3	3	1	2	2	3	3	2	2	3
EWS	EWS-PwD						1							
Total EWS	Seats	3	3	3	3	3	2	2	2	3	3	2	2	3
Total Seats	S	25	25	25	30	25	24	25	18	30	30	25	25	30
Sponsored	(SFT)	5	5	5	5	5	5	5	5	5	5	5	5	5

			ECE			EE		EN V			ME			
Categor y	Depa rtment/ Branch	МОС	SPD	VLS	C&I	PS Y	PE S	EN E	PR D	TH E	IE M	ES M	CAA D	Total
		14	15	16	17	18	19	20	21	22	23	24	25	
CNI	GNGN	9	11	9	10	10	11	10	9	10	12	11	11	253
GN	PwDGN	1		1			1		1			1	1	13
Total GN	Seats	10	11	10	10	10	12	10	10	10	12	12	12	266
00	SCGN	4	2	3	3	3	5	4	3	4	4	5	5	94
SC	SC-PwD		1			1		A			1			5
Total SC S	Seats	4	3	3	3	4	5	4	3	4	5	5	5	99
ST S	STGN	2	2	2	2	2	2	2	2	2	1	2	2	47
31	ST-PwD										1			2
Total ST S	Seats	2	2	2	2	2	2	2	2	2	2	2	2	49
	OBCGN	6	6	7	6	7	8	7	7	6	7	8	8	168
OBC	OBC- PwD		1	Visit	1					1	1			9
Total OBC	Seats	6	7	7	7	7	8	7	7	7	8	8	8	177
	EWSGN	3	2	3	3	1	3	1	3	2	3	3	3	63
EWS	EWS- PwD					1		1						3
Total EWS	S Seats	3	2	3	3	2	3	2	3	2	3	3	3	66
Total Seat	s	25	25	25	25	25	30	25	25	25	30	30	30	657
Sponsore	d (SFT)	5	5	5	5	5	5	5	5	5	5	5	5	125

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Seat Matrix for M.Tech. (Part Time) Programmes for the Session 2023-24

		AC	AP		Т	CE				(6	SE	П	IT SE	
Category	Department/ Branch	PTE	MST	ВЮ	IBT	GTE	HRE	STE	GINF	CSE	AI	ISY	SWE	DS
		1	2	3	4	5	6	7	8	9	10	11	12	13
GN	GNGN	5	5	4	5	5	5	4	5	5	5	5	5	5
GIN	GN-PwD			1				1					1	
Total GN S	Seats	5	5	5	5	5	5	5	5	5	5	5	6	5
00	SCGN	2	2	1	2	2	2	2	2	2	2	1	2	2
SC	SC-PwD	om Line							0-150					
Total SC S	Seats	2	2	1	2	2	2	2	2	2	2	1	2	2
	STGN	1	1	1	1	1	1	1	1	1	1	1	1	1
ST	ST-PwD													
Total ST S	eats	1	1	1	1	1	1	1	1	1	1	1	1	1
	OBCGN	2	2	4	3	4	3	3	4	3	3	4	3	3
OBC	OBC-PwD	1	1				1							
Total OBC	Seats	3	3	4	3	4	4	3	4	3	3	4	3	3
	EWSGN	1	1	2	1	1	1	1	1	1	1	1	1	1
EWS	EWS-PwD									1				
Total EWS	Seats	1	1	2	1	1	1	1	1	2	1	1	1	1
Total Seats	S	12	12	13	12	13	13	12	13	13	12	12	13	12



A DESTRUCTION OF THE PARTY OF T			ECE			EE		ENE	ME					W. S.
Category	Department/ Branch	MOC	SPD	VLS	C&I	PSY	PES	ENE	PRD	THE	IEM	ESM	CAAD	Total
		14	15	16	17	18	19	20	21	22	23	24	25	
ON	GNGN	4	5	5	5	5	5	5	5	5	5	5	4	121
GN	GN-PwD	1					1						1	6
Total GN Sea	nts	5	5	5	5	5	6	5	5	5	5	5	5	127
sc	SCGN	2	2	2	2	2	2	1	2	2	1	2	1	45
50	SC-PwD										1		1	2
Total SC Sea	ts	2	2	2	2	2	2	1	2	2	2	2	2	47
07	STGN		1	1	1	1	1		1	1		1	1	22
ST	ST-PwD							1			1			1
Total ST Sea	ts	0	1	1	1	1	1	1	1	1	0	1	1	23
	OBCGN	4	3	3	3	3	3	3	3	3	4	4	3	80
OBC	OBC-PwD								1					4
Total OBC Se	eats	4	3	3	3	3	3	3	4	3	4	4	3	84
	EWSGN	1	1	2	2	1	1	2	1	1	1	1	1	29
EWS	EWS-PwD		1											2
Total EWS Se	eats	1	2	2	2	1	1	2	1	1	1	1	1	31
Tot	al Seats	12	13	13	13	12	13	12	13	12	12	13	12	312



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 by2023. 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./Mshereby 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

ADMISSION BROCHURE M. Tech. Programmes: 2023 -24



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/1st 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
Com	nmunity which is recognized as a backward
alaas uu da w	

class under:

- Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186 dated 13/09/93.
- ii. Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.
- iii. Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated25/05/95.
- iv. Resolution No. 12011/96/94-BCC dated 9/03/96. (v)Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.
- Resolution No. 12011/13/97-BCC dated 03/12/97.
- vi. Resolution No. 12011/99/94-BCC dated 11/12/97.
- vii. Resolution No. 12011/68/98-BCC dated 27/10/99.
- viii. Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.
- ix. Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated04/04/2000.
- x. Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210dated21/09/2000,
- xi. Resolution No. 12015/9/2000-BCC dated 06/09/2001.
- xii. Resolution No. 12011/1/2001-BCC dated 19/06/2003.
- xiii. Resolution No. 12011/4/2002-BCC dated 13/01/2004.
- xiv. Resolution No. 12011/9/2004-BCC dated 16/01/2006 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 16/01/2006.

ADMISSION BROCHURE M. Tech. Programmes: 2023 -24

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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 (Creathe Schedule to the Government of India, Depart 36012/22/93-Estt.(SCT) dated 08/09/93 which is maken (Res.) dated 09/03/2004.	ment of Personnel & Training O.M. No.					
	Commissioner / Competent Authority ceal					
Dated:						
NOTE:						
 The term 'Ordinarily' used here will have the same m of the People Act, 1950. 	eaning as in Section 20 of the Representation					
b. The authorities competent to issue Caste Certifica	ates 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 can Declaration/undertaking - for						
Ι,	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 OfficeMemorandum No.36012/22/93- Estt. (SCT), dated 8/9/1993. It is also declared that 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.						
referred Office Memorandum, dated 8/9/1993,	n Column 3 of the Schedule to the above which is modified vide Department of					
referred Office Memorandum, dated 8/9/1993,	n Column 3 of the Schedule to the above which is modified vide Department of					
referred Office Memorandum, dated 8/9/1993, Personnel and Training Office Memorandum No.3	n Column 3 of the Schedule to the above which is modified vide Department of					

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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. 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	tne	canc	ildate:	Mr./Ms.		
Father's			Name:	:		
PermanentA	ddress:					
						words):
						the studies and perform the duties
of an engine	er/archit	tect sa	atisfactor	rily:		·
Name of the	disease	e-cau	sing han	idicap:		
Whether har	ndicap i	s ten	nporary o	or permane	nt:	
Whether han	dicap is	prog	ressive o	r non-progre	essive:	
The candidate (*Strike out w	te is FIT	/UN	FIT to pu	ırsue further		
Member			Men	mber		Principal Medical Officer (Orthopaedic Specialist) Seal of Office:
Date:						
NOTE:						

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

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

ADMISSION BROCHURE M. Tech. Programmes: 2023 -24



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
	resident of
Village/Street Post Office	
in the State/Union Territory	
whose photograph is attested below belongs the gross annual income* of his/her family** is for the financial year any of the following assets***:	s below Rs. 8 lakh (Rupees Eight Lakh only)
 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; iv. Residential plot of 200 sq. yards and above; 	
Shri/Smt./Kumaribe	elongs to the
caste which is not recognized as a Scheduled Classes (Central List)	
Name	Signature with seal of Office
Designation	
*Note 1: Income covered all sources i.e. salary, agriculture, business, profession, etc.	the age of 18 years as also his/her spouse and children below the age of 18 years.
Note 2:The term 'Family" for this purpose include the person, who seeks benefit of reservation, his/her parents and siblings below	*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 acceptedas proof of candidate's claim as 'belonging to EWS: -

 District Magistrate/Additional District Magistrate/ Collector/ Deputy Commissioner/ Additional Deputy Commissioner/ 1st Class Stipendiary Magistrate/ Sub-Divisional Magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner,

- ii. Chief Presidency Magistrate/Additional Chief Presidency Magistrate/ Presidency Magistrate,
- 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	
is registered as migrant from Jammu	u and Kashmir. The registration number is
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

ADMISSION BROCHURE M. Tech. Programmes: 2023 -24

reservation against the Kashmiri Migrant Seat.





SPONSORSHIP CERTIFICATE

(Required from full-time sponsored candidates only)

The undersigned is pleased to sport	nsor Mr./Ms
who is working in this organization	for the lastyears and is presently holding
the rank/position offor	pursuing the M. Tech programme (course) at
Delhi Technological University, De with specialization in the following at	lhi in the Department ofreas:
1	2
3	4
His/her conduct and character has b	een 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 organiz	zation for the lastyears and is presently holding
the rank/position of	for pursuing the M. Tech programme at Delhi
Technological University, Delh	ni with specialization in the following areas:
1	2
3	4
His/her conduct and character	has been good.
course, if selected for admis present at the University as	would relieve him/her immediately for joining the above ssion. If admitted the candidate will be permitted to be required by the academic schedule for a period of three main in service of this organization for the duration of the
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
Ison/daughter of Shri
resident of village/town/citydistrict
Statehereby 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, 2023. I shall submit a fresh EWS certificate valid for the year 2022-23 by 25 July 2023.
Signature of the Candidate:
Name of the candidate:
Application No.:
Place:



DELHI TECHNOLOGICAL UNIVERSITY

FOR OBC CATEGORY CANDIDATES ONLY

Department Applied For
Programme Applied For
Undertaking
Ison/daughter of Shr
resident of village/town/citydistrict
Statehereby 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, 2023. I shall submit the OBC-NCL Category certificate valid for the year 2023-24 by 25 July 2023.
Signature of the Candidate:
Name of the candidate:
Application No.:
Place:
_



7. SYLLABUS FOR ADMISSION TEST

1. Department of Applied Chemistry

Introduction of Polymer Science 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 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

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 Eigen-functions, Expectation values, Particle in a box (Infinite/Finite potential well), Tunneling effect, Photoelectric effect, Compton e ffect, 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, Poission's and Lapalce'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

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 lavers: 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; Extrachromosomal 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

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 - Boussinesg's theory; Pressure bulbs, Shallow foundations -Terzaghi's and Meyerhoff'sbearing 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; measurement in channels and 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 run-off 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 domestic wastewater, primary secondary treatment. Effluent discharge standards; Sludge disposal; Reuse of treated sewage for different applications

5. Department of Computer Science and Engineering/ Department of Information Technology/ Department of Software Engineering

Section 1: Engineering Mathematics

Discrete Mathematics: Propositional and first order logic. Sets, relations, functions, partial orders and lattices. Monoids, Groups. Graphs: connectivity, matching, coloring. Combinatorics: counting, recurrence relations, generating functions.

Linear Algebra: Matrices, determinants, system of linear equations, eigenvalues and eigenvectors decomposition.

Calculus: Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration.

Probability and Statistics: Random variables. Uniform, normal, exponential, poison and binomial distributions. Mean, median, mode and

standard deviation. Conditional probability and Bayes theorem.

Section 2: Digital Logic Boolean algebra. Combinational and sequential circuits. Minimization. Number representations and computer arithmetic (fixed and floating point).

Section 3: Computer Organization and Architecture Machine instructions and addressing modes. ALU, data-path and control unit. Instruction pipelining pipeline hazards. Memory hierarchy: cache, main memory and secondary storage; I/O interface (interrupt and DMA mode).

Section 4: Programming and Data Structures Programming in C. Recursion. Arrays, stacks, queues, linked lists, trees, binary search trees, binary heaps, graphs.

Section 5: Algorithms Searching, sorting, hashing. Asymptotic worst-case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide-and-conquer. Graph traversals, minimum spanning trees, shortest paths

Section 6: Theory of Computation Regular expressions and finite automata. Context-free grammars and push-down automata. Regular and context-free languages, pumping lemma. Turing machines and undecidability.

Section 7: Compiler Design Lexical analysis, parsing, syntax-directed translation. Runtime environments. Intermediate code generation. Local optimization, Data flow analyses: constant propagation, liveness analysis, common sub expression elimination.

Section 8: Operating System

System calls, processes, threads, inter-process communication, concurrency and synchronization. Deadlock. CPU and I/O scheduling. Memory management and virtual memory. File systems.

Section 9: Databases ER-model. Relational model: relational algebra, tuple calculus, SQL. Integrity constraints, normal forms. File organization, indexing (e.g., B and B+ trees). Transactions and concurrency control.

Section 10: Computer Networks Concept of layering: OSI and TCP/IP Protocol Stacks; Basics of packet, circuit and virtual circuit-switching; Data link layer: framing, error





detection, Medium Access Control, Ethernet bridging; Routing protocols: shortest path, flooding, distance vector and link state routing; Fragmentation and IP addressing, IPv4, CID notation, Basics of IP support protocols (ARP, DHCP, IMP), Network Address Translation (NAT); Transport layer: flow control and congestion control, UP, TCP, sockets; Application layer protocols: DNS, SMTP, HTTP, FTP, Email.

6. Department of Electrical Engineering

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 machines. performance. regulation 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 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: demultiplexer; multiplexer; 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.

7. Department of Electronics and Communication Engineering

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-Combinatorial numbers. 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; Bade 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.

8. Department of Environmental Engineering

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; Plantmicrobe 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 run-off 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 gaseous control methods: Control of 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.

Department of Mechanical Engineering

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 continuity and momentum; Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids. boundary 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 laver. 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 Stefan-Boltzmann transfer. 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 processes. chart. basic psychrometric 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.



Dean (Academic-PG)/ Associate Dean (Academic-PG)/ M. Tech. Coordinator

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