



DELHI TECHNOLOGICAL UNIVERSITY

MINUTES

of

45th Meeting

ACADEMIC COUNCIL

Date : 24.06.2026

Time : 11:00 A.M.

Venue : Vigyan Hall, 2nd Floor, Admin. Block

Shahbad Daulatpur, Bawana Road, Delhi-110042

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ANNEXURE		



Delhi Technological University

(Estd. by Govt. of Delhi vide Act No. 6 of 2009)

Formerly Delhi College of Engineering

F.No. DTU/Council/AC/96/2026/797

Date : 14/07/2026

Minutes of the 45th meeting of the Academic Council held in hybrid mode on 24.06.2026 at 11:00 a.m. in Vigyan Hall, 2nd Floor, Admin. Block, DTU.

The following members were present:

1. Prof. Prateek Sharma, Vice Chancellor, Delhi Technological University and Chairperson, Academic Council.
2. Prof. Vasant Matsagar, Civil Engineering Department, Indian Institute of Technology, Delhi (through online mode)
3. Prof. Shashi K. Dhiman, Himachal Pradesh University, Summer Hill, Shimla (through online mode)
4. Prof. Pami Dua, Department of Economics, University of Delhi (through online mode)
5. Prof. Pankaj Srivastava, Deptt. of Applied Physics, Indian Institute of Technology, Delhi (through online mode)
6. Prof. Anuj Dhawan, Deptt. of Electrical Engineering, Indian Institute of Technology, Delhi (through online mode)
7. Sh. Amit Mishra, Deputy Director, FICCI (through online mode)
8. Prof. Rajeshwari Pandey, Dean, Faculty Affairs
9. Prof. Rinku Sharma, Dean, Academic-PG
10. Prof. Dinesh Chutani, Dean, Academic-UG
11. Prof. Girish Kumar, Dean, R&D
12. Prof. Vishal Verma, Dean, Alumni & International Affairs
13. Prof. S. Indu, Dean, Digital Education
14. Prof. Ram Singh, Dean, Student Welfare
15. Prof. Mini Sreejeth, Dean, Outreach & Extension Activities
16. Prof. Rajesh Rohilla, Dean, Career Development & Industry Engagement
17. Dr. Nupur Srivastava, Controller of Examinations
18. Dr. Raminder Kaur, Associate Dean, SILR
19. Prof. Narendra Kumar, Head, Department of Electrical Engineering
20. Prof. Neeta Pandey, Head, Department of E&C Engineering
21. Prof. Ruchika Malhotra, Head, Department of Software Engineering
22. Prof. R.C. Singh, Head, Department of Design
23. Prof. Awadhesh Kumar, Head, Department of Civil Engineering
24. Prof. B.B. Arora, Head, Department of Mechanical Engineering
25. Dr. Saroj Bala, Head, Department of Humanities
26. Prof. Ramesh Srivastava, Head, Department of Applied Mathematics
27. Prof. Devendra Kumar, Head, Department of Applied Chemistry
28. Prof. Vinod Singh, Head, Department of Applied Physics

29. Dr. Saurabh Agrawal, Head, Department of Delhi School of Management
30. Prof. Yasha Hasija, Head, Department of Biotechnology
31. Prof. Dinesh Vishwakarma, Head, Department of Information Technology
32. Prof. Anil Singh Parihar, Head, Department of Computer Science & Engg.
33. Prof. Amit Mookerjee, Head, USME
34. Dr. Geeta Singh, Head, Environmental Science & Engineering
35. Prof. K.C. Tiwari, Head, Department of Geospatial Science & Technology
36. Dr. D.C Meena, for Head, B.Tech, Continuing Education
37. Prof. T. Vijay Kumar, Director, CoE for Science and Happiness
38. Prof. Shilpa Pal, Director, IQAC
39. Prof. R.K. Singh, Director, BEST
40. Dr. Ravindra Singh, Department of Design
41. Dr. Pawan Kumar Tyagi, Associate Professor
42. Dr. Rohit Beniwal, Associate Professor, CSE
43. Sh. Binod Doley, Registrar and Member Secretary

Agenda 45.1 : Opening Remarks by the Chairperson.

The Hon'ble Vice Chancellor, Chairperson of the Council welcomed the newly nominated members Prof. Pami Dua, Department of Economics, University of Delhi, Prof. Pankaj Srivastava, Deptt. of Applied Physics, IIT, Delhi and Prof. Anuj Dhawan, Deptt. of Electrical Engineering, IIT, Delhi. He also welcomed Prof. Shashi K. Dhiman, Department of Physics, Himachal Pradesh University, Prof. Vasant Matsagar, Department of Civil Engineering, IIT- Delhi, Sh. Amit Mishra, Deputy Director, FICCI, Registrar DTU, all Deans, HODs and other members of Academic Council.

The Chairperson highlighted some of the achievements/events in DTU since the last meeting of the Academic Council as under:

We are delighted to share that **Dr. Rajesh K. Soin**, Distinguished Alumnus of our University (Mechanical Engineering, 1969) has invested **₹4 Crore in seed funding in Biome Sustainability Ventures**, a sustainability startup founded by DTU alumnus Sumeet Popli (Civil Engineering, 2004).

Delhi Technological University expresses its heartfelt gratitude to **Dr. Durga Das Agrawal**, Distinguished Alumnus of our University, for his extraordinary support towards the Masters students enrolled in the joint program between DTU and University of Houston, the DTU-UH Accelerated 4+1 MS in Engineering Data Science & AI Program.

DTU Secures ₹1 Crore DST Grant for Undergraduate Lab in Quantum Technologies. Delhi Technological University (DTU), through its Centre of Excellence in Disaster Risk Reduction (CoEDRR) and the Department of Civil Engineering, inaugurated an Industry- Supported Laboratory in collaboration with Hilti India Pvt. Ltd. on 10th April 2026.

Delhi Technological University has achieved a significant milestone under the **AICTE Post-Doctoral Fellowship (PDF)** Scheme, with five project proposals from DTU having been approved under this scheme, including three from the Department of Applied Physics, one from the Department of Biotechnology, and one from the Department of Mechanical Engineering.

DTU formally launched its multidisciplinary **Department of Geospatial Science and Technology** on 24th April, 2026. On 17th April, 2026, Delhi Technological University hosted the felicitation ceremony for female students who were chosen for the **Rupa Rahul Bajaj National Scholarship for Women in Engineering**. On 29th April, 2026, DTU launched the **ATL Saarthi & Mentor India Academy** in association with **Atal Innovation Mission (AIM)**, NITI Aayog.

DTU-Incubated startup '**AllSecureX**' was featured in the **headlines of Amar Ujala**. The startup remains focused on building quantum-resilient security infrastructure to help organizations prepare for the next era of cybersecurity.

Mr. Rushiv Bansal and Mr. Rishabh Bansal, attained outstanding placement offers through DTU, with packages of **₹29 LPA at NVIDIA and ₹34 LPA at Texas Instruments**.

Dr. Harish Panghal, who recently earned his doctorate in structural engineering from Delhi Technological University's Department of Civil Engineering, has been granted the **esteemed Marie Skłodowska-Curie Actions Postdoctoral Fellowship, which is supported by the European Commission**. One of Europe's most distinguished and competitive international research grants, the MSCA Fellowship supports exceptional researchers across the globe.

Congratulations to the two teams from Delhi Technological University (DTU) who emerged as winners at the **Harit Manthan 2026 National Hackathon**, a prestigious national-level innovation initiative organized by the Delhi Development Authority and the Udhmodya Foundation. The winning teams were awarded incubation support of up to ₹10 lakhs to further develop their innovative solutions.

Congratulations to the two teams from Delhi Technological University (DTU) who emerged as **winners at the Harit Manthan 2026 National Hackathon**, a prestigious national-level innovation initiative organized by the Delhi Development Authority and the Udhmodya Foundation. The winning teams were awarded incubation support of up to **₹10 lakhs** to further develop their innovative solutions.

At **HackIITK 2026**, a national **cybersecurity competition** organized by **C3iHub at IIT Kanpur**, **Team EHAX** from Delhi Technological University (formerly DCE) won the third place, valued at **₹1,00,000**. In a 15-hour overnight CTF test that covered cryptography, web exploitation,

Delhi Technological University marked a significant milestone in **promoting holistic education with the inauguration of the Science of Spirituality (SOS) Meditation Centre**. The centre was inaugurated by Sant Rajinder Singh Ji Maharaj, an internationally renowned spiritual leader and Head of Science of Spirituality, with the objective of fostering holistic development, meditation practices, and value-based education among students.

Delhi Technological University is proud to announce that a student team led by Shubhika and Pradeep Patel, under the guidance of Prof. Jai Gopal Sharma, Department of Biotechnology, DTU has secured the Second Position at the prestigious Rajasthan Green Innovation Challenge held at MNIT, Jaipur for their

groundbreaking innovation in sustainable energy. In recognition of their outstanding contribution, the team was felicitated by the Hon'ble Chief Minister of Rajasthan, Mr. Bhajan Lal Sharma and awarded a cash prize of ₹15 lakh.

The DD Morning Show aired on 28th April on "Tech Trends – Future Roadmap for Technical Education in India" featured Prof. Prateek Sharma, Hon'ble Vice Chancellor, DTU.

Patents Awarded

1. Dr. Mayank Kumar, Prof. Madhusudan Singh, Mr. Rushiv Bansal, and Mr. Rishabh Bansal "A Bidirectional Multiport DC-DC Converter."
2. Prof. Dr. Bharat Bhushan and Mr. Prashant Kumar from the Department of Electrical Engineering, Delhi Technological University, on the grant of their patent titled "An Automated Electromagnetic Ball Balancing System."
3. Prof. S. C. Sharma and his team at DTU's Department of Physics for receiving a patent for "Biosensor for Detecting Biomolecules." Biosensors offering real-time detection and high sensitivity have attracted significant attention as potential solutions for biomolecule detection.
4. Prof. Amrish Kumar Panwar and his team for the grant of their patent titled, "Advanced Step Sintering Method for the Synthesis of Ceramic Solid-State Electrolyte and Use Thereof".
5. Priyanka Jain, Bhavnesh Jain, Raghav Gupta, Dheeraj Joshi, and Anup Kumar Mandpura, who successfully received and published the patent "An Energy Harvesting System and Method."
6. Ajit Kumar Kumar Yadav, Ayush ,Rajeev Kumar, Dheeraj Joshi energy science, electric mobility, and sustainable technology.
7. Prof. Amit Srivastava and his co-inventor, Dr. Abhishek Prakash Paswan, for their invention, "Device and Method of Rainfall Simulation for Replicating Rainfall Patterns".

MOU Signed

1. Delhi Technological University signed a Memorandum of Understanding (MoU) with **GRIHA Council** to strengthen sustainability research and education in the built environment.
2. Delhi Technological University marked a significant step towards strengthening academic-industry collaboration with the signing of a Memorandum of Understanding (MoU) between its **Civil Engineering Department** and the **National Council for Cement and Building Materials (NCCBM), Ballabhgarh.**
3. DTU signed a Memorandum of Understanding (MoU) with **Indian Railways Institute of Signal Engineering and Telecommunications** to introduce specialized learning in Railway Signalling and the indigenous Automatic Train Protection system – **KAVACH** – within its B. Tech program in Electronics and Communication Engineering (ECE).



4. DTU signed a Memorandum of Understanding with **Navjyoti India Foundation on 28 April in the presence of Dr. Kiran Bedi, IPS (Retd.)**, Former Lieutenant Governor of Puducherry and Founder of Navjyoti India Foundation.
5. We are pleased to announce that **Gujarat Fluorochemicals Limited Ltd (GFL)** and Delhi Technological University (formerly DCE) have signed a Memorandum of Understanding (MoU) to work together **on a cutting-edge pilot project under the Clean Yamuna Water Initiative. Through this partnership, DTU and GFL will collaborate on research, innovation, sustainable water treatment systems, operational data creation, and water quality monitoring.**
6. In order to promote research, innovation, and scholarly cooperation in cutting-edge fields of science and technology, **Delhi Technological University and Inter-University Accelerator Center (IUAC)-New Delhi** signed a Memorandum of Understanding (MoU).

Celebrations

- Delhi Technological University celebrated the **Golden Pride Function 2026** on March 10, 2026, to honour the outstanding achievements of its students. The event recognized recipients of Chancellor's and Vice Chancellor's Gold Medals in undergraduate and postgraduate programmes, Scholarship winners along with Ph.D. scholars for their academic excellence and research contributions.
- DTU organizes **Kavi Sammelan to Commemorate Shaheed Diwas** on 19th March 2026.
- Delhi Technological University successfully organized **Engifest 2026**, its annual cultural festival, with great enthusiasm and participation from students across the country. (20th -23rd March).
- On March 24, 2026, the Department of Biotechnology at Delhi Technological University organized an awareness event on the occasion of **World Tuberculosis Day** under the theme "**Yes! Tuberculosis Can Be Eradicated**".
- On March 24, 2026, Delhi Technological University organized the **Viksit Bharat Yuva Connect Programme (VBYCP)**, a flagship initiative of the Ministry of Youth Affairs and Sports, Government of India implemented through the **Mera Yuva Bharat (MY Bharat)** platform.
- As part of the celebration of **Ambedkar Jayanti Week** (7–14 April), Delhi Technological University organized a series of meaningful events to honor the life, vision, and enduring ideals of Dr. B. R. Ambedkar. Among these events, the university, successfully conducted the "Run for Equality and Unity".
- **Aahvaan'26** concluded successfully, showcasing a high standard of discipline, athletic excellence, and competitive spirit. Guided by the theme "शौ यरं दा क्षं च युद्धे च" (valour, skill, and resilience in competition), the event served as a significant platform for inter- collegiate sporting engagement. During 11-13 April.

- **International Mother Earth Day** celebrated by the Department of Environmental Science and Engineering on 22nd April 2026.
- Expert Session on '**Coders to Architects of Intelligence**' by Dr. Ashish Chandra, Partner and Global Head, of AI on 22nd April 2026
- On April 22, 2026, the Hostel Office of Delhi Technological University held "**The Hostel Council Felicitation and Awards Distribution Ceremony**" at the Dr. B. R. Ambedkar Auditorium, to honor the contributions of Hostel Council members and commemorate the Hostel Leadership and Innovation Initiative.
- The 9th lecture of the Lecture Series in Biotechnology was held on 27 April at Vigyan Hall, Delhi Technological University by the Department of Biotechnology. Dr. Rajesh Pandey, Senior Principal Scientist, CSIR-IGIB, gave an informative presentation on "**Looking Inside out into the Cell for Decoding Genomic Modulators of Disease Severity**" during the event.
- NSS DTU visited the Office of the Deputy Commissioner of Police, Outer North District, Delhi, during Anti-Drug Drive Week (April 24–30, 2026), for a thought-provoking conversation about creating a **Nasha Mukht Delhi**.
- On the occasion of **World Environment Day 2026**, the Department of Environmental Science & Engineering, in association with the Institute Innovation Council (IIC), Delhi Technological University, organized a thought-provoking lecture and symbolic tree plantation activity on 5th June 2026.
- DTU Celebrated **International Yoga Day** on 21st June 2026.

Workshops and webinars and FDP and Lecture Series

1. Workshop on Mind and Stress Management to promote mental well-being and equip students and faculty with practical strategies for managing stress. Organized by the Centre of Excellence for the Science of Happiness on 16th March 2026.
2. Invited Talk on Gender-Responsive HIV Programming to mark International Women's Day by Equal Opportunity Cell and the Department of Applied Mathematics on 17th March 2026.
3. 9th lecture of its Distinguished Lecture Series (DLS) in Applied Physics on March 18, 2026 by Prof. (Dr.) Kanika Malik, Senior Principal Scientist at CSIR-National Institute of Science Communication and Policy Research (NIScPR).
4. The Department of Electronics and Communication Engineering at Delhi Technological University organized a one-day workshop on "AI, Digitization & Automation in University Administration: Enhancing Efficiency & Productivity" on March 20, 2026.
5. One Day Workshop on "Impact of EVs in Deregulated Electricity Markets" organized by the Department of Electrical Engineering on 24th March.
6. DTU hosts Indian Cricketer, Shafali Verma for the event 'Empowering Women in Sports' on 25th March 2026.

7. Three Distinguished Lecture on 'Solid Waste Management' Organised by Department of Environmental Science and Engineering Dr. Anil Kumar, Director of Perfect Enviro Consultants and former Director of the Department of Environment, Government of Delhi, on 27th March 2026.
8. The Quiz Club of DTU (Delhi-42 DTU) organized a series of engaging quizzes during Fortitude'26, held on April 4 & 5, 2026, at Delhi Technological University.
9. The Center of Excellence in Disaster Risk Reduction at Delhi Technological University hosted an expert lecture on "Landslide Susceptibility, Hazard and Risk Mapping" by Prof. Dericks P. Shukla of IIT Mandi on 7th April.
10. On April 10, 2026, Department of Mechanical Engineering and DTU ALTAIR arranged an expert talk as part of the Expert talk Series. Shri Sunil Kumar, Deputy Director, MSME, Government of India, gave the talk, "Success Mantra to Become Best Entrepreneur.
11. SemiXthon – A Hardware Hackathon was organized by the Semicon Society under the Vinod Dham Centre of Excellence for Semiconductors and Microelectronics (VDSemiX), DTU. A 10-hour hardware hackathon focused on innovation in electronics, semiconductors, and emerging technologies. On 13/04/2026.
12. Interactive Session on CAD/CAM in the Field of Oral Health organized by the Department of Mechanical Engineering Dr. Rekha Sharma, Senior Professor and Head of the Department of Orthodontics on 22nd April 2026.
13. On April 23, 2026, the Department of Applied Physics successfully arranged a seminar on "Reflections for a Post-AI World." Dr. Lokesh Mishra, Chief AI Officer of Mentiora AI, a DTU B.Tech Engineering Physics (EP) alumnus with a PhD from the University of Geneva and academic experience at the University of Bern, was honored to talk to the department.
14. DTU celebrated the World Book & Copyright Day to highlight the importance of protecting knowledge as much as sharing it. The event brought together some truly remarkable minds. Dr. Vimal Kumar Varun, Former CTO, CISO & Head (IT) at DSIR, Ministry of Science & Technology, Government of India, on 23rd April.
15. To commemorate the World Malaria Day 2026, the Department of Biotechnology at Delhi Technological University (formerly DCE) held a seminar at Pragyan Hall with the topic "One Health, One Fight: Malaria-Free Nation." On 23rd April.
16. On May 11, 2026, the Department of Civil Engineering at Delhi Technological University commemorated National Technology Day in partnership with the Institution's Innovation Council (IIC), DTU. The event's distinguished speaker was Prof. Prem Krishna, a renowned specialist in structural and wind engineering and a former professor and head of the Department of Civil Engineering at IIT Roorkee.
17. On May 13, at Pragyan Hall, Delhi Technological University (formerly DCE), SIUA (Sustainability Integration in University Activities) and SILR (School of Integrated Learning and Research) hosted eminent delegates and members

from the American Institute of Indian Studies (AIIS) for an enlightening one-day symposium on Environment and Sustainability.

18. Delhi Technological University's Department of Electronics and Communication Engineering is pleased to host a one-week faculty development program (in hybrid mode) on recent advancements in semiconductor materials, devices, and circuits. By bringing academicians, researchers, and industry specialists together on a single platform, this FDP seeks to offer insightful information about new trends, cutting-edge research, and advancements in semiconductor technology.
19. Human Resource Development Centre (HRDC), Delhi Technological University (Formerly DCE) in association with Office of Research and Development (R&D), DTU is organizing a one-day workshop on "How to write a Winning Proposal" on 04th June, 2026 at Pragyan Hall, Admin. Building, DTU.
20. SIUA (Sustainability Integration in University Activities) and SILR (School of Integrated Learning and Research) hosted distinguished delegates and members from the American Institute of Indian Studies (AIIS) for an insightful one day symposium on Environment and Sustainability on 13th May at Pragyan Hall, Delhi Technological University (Formerly DCE).

Agenda 45.2 : Confirmation of the minutes of the 44th meeting of Academic Council held on 26.02.2026.

The minutes of the 44th meeting of Academic Council held on 26.02.2026 were circulated among all the members vide forwarding letter number F.No. DTU/Council/AC/92/2026/747 dated 02.03.2026. Minutes of 44th meeting held on 26.02.2026 were placed as Annexure in the Agenda note.

No comments were received from any of the members.

Decision : The Academic Council confirmed the minutes of its 43rd meeting held on 24.11.2025.

Agenda 45.3 : Action taken report on the decisions taken in the 44th meeting of the Academic Council.

Minutes of the 44th meeting of Academic Council held on 26.02.2026 were circulated to members and concerned officers for further necessary action. Action Taken Report on the decisions taken in the 44th meeting of the Academic Council is as below:

Item No.	Agenda Item	Decision Taken	Action Taken Report
44.1	Opening remarks by the Chairperson.	Noted.	Matter of record.
44.2	Confirmation of the minutes of the 43 rd meeting of Academic Council held on 24.11.2025.	The Academic Council confirmed the minutes of its 43 rd meeting held on 24.11.2025.	Matter of record.
44.3	Action taken report on the decisions taken in the 43 rd meeting of the Academic Council.	The Academic Council took the above Action Taken Report on record.	Matter of record.
44.4	Introduction of Industry Micro Credential Courses titled- "Solar PV Installation and Maintenance" and "Energy Audit".	The Academic Council considered and approved the introduction of Industry Micro Credential Courses titled- "Solar PV Installation and Maintenance" and "Energy Audit" along with their course structure for undergraduate programs. Further, for post-graduate programs, the Council advised to revised the course contents as per PG level and add the necessary pre-requisites. The Council also advised that the University should inform about such skilled based courses to the respective industries through T&P department.	Introduction of Industry Micro Credential Courses titled- "Solar PV Installation and Maintenance" and "Energy Audit" is being implemented from August 2026.
44.5	In-principle approval for the introduction of the Integrated B.Sc.-M.Sc. Programme in Statistics by the Department of Applied Mathematics.	The Academic Council considered and recommended the matter to Board of Management for in-principle approval for introduction of the Integrated B.Sc.-M.Sc. Programme in Statistics by the Department of Applied Mathematics.	The matter has approved by the Board of Management in its 58 th meeting. However, the program is not being started from this academic session.

44.6	Starting of integrated B.Sc. & M.Sc. (Data Science) program in the Department of Software Engineering w.e.f. academic session 2026-27.	The Academic Council considered and recommended the matter to Board of Management for in-principle approval to start integrated B.Sc. & M.Sc. (Data Science) program in the Department of Software Engineering with following stipulations: 1. Eligibility criteria to be revisited and independently evaluated in consonance with the norms of UGC and NEP,2020. 2. All the provisions related to admission should be aligned with the existing framework and admission brochure of the Integrated B.Sc-M.Sc programme of the University.	The decision of the Academic Council has been implemented.
44.7	In-principal approval Five-Year Integrated PG Programme – B.Sc.–M.Sc. Statistics (Honors) with Minor in Economics and Data Science in USME (East Delhi Campus).	The Academic Council considered and recommended the matter with above suggestions to Board of Management for in-principle approval of Five Year Integrated PG Programme (FYIPP) – B.Sc.–M.Sc. in Applied Statistics in USME (East Delhi Campus) with following stipulations: 1. The Eligibility criteria to be revisited and independently evaluated in consonance with the norms of UGC and NEP,2020. 2. All the provisions related to admissions should be aligned with the existing framework and admission brochure of the Integrated B.Sc-M.Sc programme of the University.	The decision of the Academic Council has been implemented.
44.8	Students' Grievance Redressal Policy and Grievance Redressal Escalation Matrix.	The Academic Council considered and recommended the matter to Board of Management for approval the Students Grievance Redressal Policy and Grievance Redressal Escalation matrix with following modifications: 1. In escalation matrix, level should be separated for Vice-Chancellor and Ombudsman i.e. separate level for Ombudsman be created after Vice-Chancellor. 2. Anonymous complaints should also be examined at Level-I and	The policy has been notified.

		escalated as per the escalation matrix. 3. Grievances/Complaints related to Ragging should be dealt by Anti-Ragging Committee of the University. 4. Provision should be included in the guidelines that any grievance sent directly to Vice-Chancellor and Registrar will not be entertained and will be routed through the appropriate channel.	
44.9	Guidelines to rationalize the teaching load of faculty members discharging administration, research & other responsibilities.	The Academic Council considered and approved the Guidelines to rationalize the teaching load of faculty members discharging administration, research & other responsibilities as revised above with following modifications: 1. Assignment of course/lab load to be decided by respective HoDs. 2. Threshold amount for extramural sponsored research project without equipment head, should be >10 Lakhs.	The guidelines are under notification.
44.10	Changes in admission brochure for Foreign Students for the AY 2026-27.	The Academic Council considered and approved the proposed changes in admission brochure for Foreign Students for the AY 2026-27.	The changes have been incorporated in the admission brochure for AY 2026-27.
44.11	Introduction of Supernumerary Ward Quota (SWQ) for Wards of DCE/DTU Employees in Undergraduate Programmes.	The Academic council considered the agenda and as per the suggestions made by the Council members, advised the followings: 1. The policy should be reviewed by the committee. Further, few more members should be included in the committee. 2. The modalities for seat distribution be worked out. 3. The policy should be legally vetted.	The matter is under review as per the advise of Academic Council.
44.12	Restructuring of MS-199 (MS-299) course.	The Academic Council considered and approved the restructuring of MS-199 (MS-299) course as proposed.	Decision of the Academic Council has been implemented.
44.13	In-principle approval for introduction of Four-Year B.Tech program	The Academic Council considered and recommended the matter to the Board of	The matter is under process for AICTE approval.

	in Geoinformatics under Multidisciplinary Department of Geospatial Science and Technology (DGST).	Management for in-principle approval of introduction of four-year B.Tech program in Geoinformatics.	
44.14	Approval of new elective course CE-346 (Indian Knowledge Systems: Infrastructure, Sustainability and Climate Resilience).	The Academic Council considered and approved the new elective subject CE-346 (Indian Knowledge Systems: Infrastructure, Sustainability and Climate Resilience) along with its syllabus.	The decision of the Academic Council has been implemented.
44.15	Approval of revised title and contents of the existing elective course CE-327 (Optimization Techniques and AI Applications in Civil Engineering).	The Academic Council may considered and approved the revised title of the existing elective subject i.e. CE-327 along with its syllabus.	Decision of Academic Council has been implemented.
44.16	Revision of Contact Hours and Evaluation Scheme – Industry Micro-Credential Course “Big-Data Driven Power Integrity Signoff in ICs.	The Academic Council may considered and approved the revised Contact Hours and Evaluation Scheme of the said Industry Micro Credential Course “Big-Data Driven Power Integrity Signoff in ICs (SC-404).	Decision of Academic Council has been implemented.
44.17	Nationally benchmarked flagship Masters programme offered Jointly by Delhi Technological University and GRIHA Council.	The Academic Council considered and recommended the matter to the Board of Management for approval of Nationally Benchmarked Flagship Masters programme offered jointly by ‘Delhi Technological University’ and ‘GRIHA Council’ with following stipulations: 1. The curriculum and scheme of the program should be as per the approved curriculum and scheme of M.Tech program in DTU. 2. Remove the “or other qualifications deemed appropriate by DTU” from the eligibility criteria. 3. Separate curriculum should be formulated for M.Tech by Research program.	The GRIHA Council has been contracted and details of scheme have been shared along with the format for framing syllabus of 1 st semester. The SILR has got the BoS constituted for approval of syllabus and subsequent submission to Academic Council. The formalities of revenue sharing are under discussion.
44.18	Matter for ratification: i. Swapping of courses in curriculum of B. Tech program in ECE Deptt.	The Academic Council ratified the actions of the University.	Matter of Record

	ii. Microcredential course offered by VDCoE for SM, embedded in B.Tech (ECE) curriculum. iii. MS program between DTU and Houston University. iv. Formal registration to following Ph.D students upon successful completion of course work and comprehensive examinations and approval of research plan by respective DRCs.		
44.19	Matter for Information: i. Admission Brochure for the Academic year 2025-26. ii. Cancellation/withdrawal made in Ph.D programme for the Academic Year 2025-26.	The Academic Council noted the information.	Matter of record.
44.20	Any other item with the permission of the Chair.	No other matter	Noted.

Decision : The Academic Council took the Action Taken Report on record.



Agenda 45.4 : Academic Calendar for all UG, PG & Ph. D. Programs for the Academic Year 2026-2027

It was submitted to the Academic Council that the following Academic Calendar was proposed for the academic year 2026-27 for approval of the Academic Council:

AY 2026-27 Odd Semester	
Online Course Registration for all UG, PG, & Ph. D Programs Odd Semester AY 2026-27 (Notification to be issued by Examination Branch)	01.07.2026 (Wednesday) - 20.07.2026 (Monday)
Orientation cum Induction Program for First Year Students of all UG and Integrated BSc. MSc Programs	27.07.2026 (Monday) – 31.07.2026 (Friday)
Commencement of Teaching for 2 nd Year Onwards	28.07.2026 (Tuesday)
Commencement of Teaching for 1 st Year Students	03.08.2026 (Monday)
Mid Term Course Feedback and Action Taken by Instructors	15.09.2026 (Tuesday) – 17.09.2026 (Thursday)
Mid Term Notification for Shortage of Attendance (To be notified by Respective Departments)	18.09.2026 (Friday)
Mid Term Examination	21.09.2026 (Monday) onwards
Evaluated Answer Script Viewing by Students	01.10.2026 (Thursday) – 03.10.2026 (Thursday)
Presentation to UGPEC/PGPEC* (Mid Term Marks and Feedback Analysis)**	12.10.2026 (Monday) – 14.10.2026 (Wednesday)
Arena '26-27 / Yuvaan'26-27 (Sports/ Literary Festival)	16.10.2026 (Friday) – 18.10.2026 (Sunday)
Online Course Registration for all UG, PG, & Ph. D Programs for Even Semester AY 2026-27 (Notification to be issued by Examination Branch)	02.11.2026 (Monday) – 20.11.2026 (Friday)
Classes in Online Mode	05.11.2026 (Thursday) – 11.11.2026 (Wednesday)
Batch Photography	16.11.2026 (Monday)
Teaching Ends	17.11.2026 (Tuesday)
End Term Course Feedback and Action Taken by Instructors	17.11.2026 (Tuesday) – 19.11.2026 (Thursday)
Shortage of Attendance (Detention List) (Submission to Respective UG/PG Branch)	18.11.2026 (Wednesday)
Display of Sessional Marks	20.11.2026 (Friday)
Practical Examination for PRS and PRE Components	23.11.2026 (Monday) – 27.11.2026 (Friday)
End Semester Theory & Project Examination	30.11.2026 (Monday) onwards
Evaluated Answer Scripts Viewing by Students	04.12.2026 (Friday) onwards
Grade Moderation and Display of Grades	28.12.2026 (Monday)
Declaration of Result	31.12.2026 (Thursday) – 07.01.2027 (Thursday)
Presentation to UGPEC/PGPEC* (End Term Marks and Feedback Analysis)**	07.01.2027 (Thursday) – 11.01.2027 (Monday)

Winter Vacation (Notification to be issued by Registrar)	15.12.2026 (Tuesday) – 27.12.2026 (Sunday)
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AY 2026-27 Even Semester	
Commencement of Teaching	01.01.2027 (Friday)
Techfest'26/ Engifest'26 Teaching Suspended (for UG & PG Students only)	08.02.2027(Monday) to 14.02.2027 (Sunday)
Aahvan 25-26	19.02.2027(Friday) to 21.02.27 (Sunday)
Mid Term Course Feedback and Action Taken by Instructors	22.02.2027 (Monday) – 24.02.2027 (Wednesday)
Mid Term Notification for Shortage of Attendance (To be notified by Respective Departments)	26.02.2027 (Friday)
Mid Term Examination	01.03.2027 (Monday) onwards
Evaluated Answer Script Viewing by Students	15.03.2027 (Monday) – 19.03.2027 (Friday)
Online Course Registration for all UG, PG, & Ph. D Programs for Odd Semester AY 2027-28 (Notification to be issued by Examination Branch)	08.03.2027 (Monday) – 25.03.2027 (Thursday)
Classes in Online Mode	18.03.2027 (Thursday) to 24.03.2027 (Wednesday)
Presentation to UGPEC/PGPEC* (Mid Term Marks and Feedback Analysis)**	29.03.2027 (Monday) – 31.03.2027 (Wednesday)
Teaching Ends	22.04.2027 (Thursday)
End Term Course Feedback and Action Taken by Instructors	22.04.2027 (Thursday) – 26.04.2027 (Monday)
Shortage of Attendance (Detention List) (Submission to Respective UG/PG Branch)	23.04.2027 (Friday)
Display of Sessional Marks	26.04.2027 (Monday)
Practical Examination for PRS and PRE Components	28.04.2027 (Wednesday) – 03.05.2027 (Monday)
End Semester Theory & Project Examination	05.05.2027 (Wednesday) onwards
Evaluated Answer Scripts Viewing by Students	12.05.2027 (Wednesday) onwards
Grade Moderation and Display of Grades	07.06.2027 (Monday)
Declaration of Result	08.06.2027 (Tuesday) – 15.06.2027 (Tuesday)
Presentation to UGPEC/PGPEC* (End Term Marks and Feedback Analysis**)	28.07.2027 (Wednesday) – 30.07.2027 (Friday)
Summer Vacation (Notification to be issued by Registrar)	08.06.2027 (Tuesday) – 16.07.2027 (Friday)
Industrial Training/Internship	After End Term Examination/Summer Vacation

* UGPEC/PGPEC: Under-Graduate & Post-Graduate Program Executive Committee.

** Report submission to Dean (UG)/Dean (PG), as the case may be

Decision : Academic Council considered and approved the Academic Calendar for all UG, PG & Ph. D. programs for the Academic Year 2026-2027.

Agenda 45.5 : Proposal to start new Industry Micro credential Generic Elective Course (Open Elective) "CD301/CD302 Applied Entrepreneurship and Venturing" under Centre for Community Development and Research (CCDR).

It was submitted to the Academic Council that the Centre for Community Development and Research (CCDR) will offer new Industry Micro-credential Generic Elective Course (Open Elective) "CD301/CD302 Applied Entrepreneurship and Venturing" for 3rd year B.Tech., BBA, BA(E) students (both in odd and even semesters).

The Board of Management of Delhi Technological University in its 51st meeting held on 05.07.2024 vide agenda number 51.28 has approved the establishment of "Centre for Community Development Research (CCDR)" at DTU. The CCDR aims to foster sustainable community development through teaching, training, impactful research, capacity building initiatives, and collaborative partnerships.

This course was in collaboration with Wadhvani Foundation's National Entrepreneurship Network LMS. An MoU in this regard is signed between DTU and Wadhvani Foundation.

Details of course and syllabus were placed as Annexure in the Agenda note.

Discussion : The matter related to the nomenclature of such type of industry driven courses were discussed and the council resolved that all such courses having one credit shall be called 'Industry Micro Credential Course' and courses having more than one credit shall be called 'Industry Linked Skill Course'.

Decision : The Academic Council considered and approved the proposal to start new Generic Elective Course (Open Elective) "CD301/CD302 Applied Entrepreneurship and Venturing" as Industry Linked Skill Course under Centre for Community Development and Research (CCDR) as per the discussion above.

Agenda 45.6 : Introduction of new program B.Tech in Mechanical and Automation Engineering.

It was submitted to the Academic Council that the Department of Mechanical Engineering has proposed new program named B.Tech. Mechanical and Automation Engineering. In the line with the MoU between Delhi Technological University and Bajaj Foundation for implementation of the Bajaj Engineering Skills Training (BEST). The program has been approved by BoS of ME Department. The committee has proposed that one section out of Five Sections of B.Tech. Mechanical Engineering may be renamed as B.Tech in Mechanical and Automation Engineering. The BoS of department has duly recommended the scheme of B.Tech. Mechanical and Automation Engineering was placed as Annexure in the Agenda note.

Decision : The Academic Council considered and recommended the matter to the Board of Management for introduction of the new programme, B.Tech in Mechanical and Automation with the stipulation that the evaluation scheme of the program shall conform to the generic scheme of evaluation of the University.

Agenda 45.7 : Revision of B.Tech in Production & Industrial Engineering (PIE) scheme

It was submitted to the Academic Council that the Board of Studies (BoS) of the Department of Mechanical Engineering has revised the scheme of B.Tech. in Production & Industrial Engineering (PIE) scheme. The minutes of BoS meeting along with revised scheme were placed as Annexure in the Agenda note.

Decision : The Academic Council considered and approved the revision of curriculum scheme of B.Tech in Production & Industrial Engineering (PIE) with the stipulation that the evaluation scheme of the program shall conform to the generic scheme of evaluation of the University.



Agenda 45.8 : Minor Degrees in “Robotics and Automation” and “Industry 4.0 & Industrial Internet of Things”.

It was submitted to the Academic Council that the Board of Studies (BoS) of the Department of Mechanical Engineering has proposed minor degrees in “Robotics and Automation” and “Industry 4.0 & Industrial Internet of Things”. The minutes of BoS meeting along with structure of minor degrees were placed as Annexure in the Agenda note.

Discussion : Sh. Amit Mishra, Deputy Director, FICCI & member, Academic Council advised to constitute an Industry Advisory Committee in the University. All such minor and industry courses should be evaluated by the committee.

Decision : The Academic Council considered and suggested that a Committee of Dean, Academic-UG, Controller of Examination and concerned Head of the Department may review the proposal and recommend appropriate title for the proposed Minor Degrees in “Robotics and Automation” and “Industry 4.0 & Industrial Internet of Things”.

Agenda 45.9 : Nomenclature change for faculty positions from “Polymer Science and Chemical Technology” to “Chemical Engineering”

It was submitted to the Academic Council that the nomenclature change of B.Tech programme in “Polymer Science and Chemical Technology” to “Chemical Engineering” has been approved by 23rd Academic council and subsequently 37th BoM meeting. Consequent to this change, the curriculum of the programme has been revised thereby department is requiring faculty members with expertise in Chemical Engineering. The total sanctioned strength in the discipline of Polymer Science and Chemical Technology was eleven (11) comprising 02 Professors, 02 Associate Professors and 07 Assistant Professors. At present, five faculty members are in position in this discipline, 02 Professors, 01 Associate Professor and 02 Assistant Professors, recruited/promoted under the Career Advancement Scheme (CAS).

It was proposed that the nomenclature of the remaining six (06) posts, after implementation of the reservation roster and flexible cadre structure, may be converted from “Polymer Science and Chemical Technology” to “Chemical Engineering”. The nomenclature of the post, presently occupied by the existing faculty members (05 in numbers) may be converted to “Chemical Engineering” after these posts will be vacated. At the time of promotion of existing faculty, recruitment rules as per Notification No. DTU/Rectt/Notification/2016-2017/3269 and Notification No. DTU/Rectt./Notification/2016-2017/3270 were considered. It was duly recommended in the Department faculty meeting held on 4th June 2026.

Decision : The Academic Council considered and recommended the matter to the Board of Management for approval of change of nomenclature for faculty positions from “Polymer Science and Chemical Technology” to “Chemical Engineering”.

Agenda 45.10 : Renaming of “Department of Applied Chemistry” to “Department of Chemical Science and Engineering”.

It was submitted to the Academic Council that the Department of Applied Chemistry is offering various programmes related to the Chemistry and Chemical Engineering, namely, B.Tech (Chemical Engineering), M.Tech (Polymer Technology), M.Sc (Chemistry), B.Sc/M.Sc Integrated programme in Chemistry and M.Tech by research in Chemical Engineering. The current name “Department of Applied Chemistry” does not reflect properly the courses offered by the Department and hence the faculty members deliberated on various names by taking examples across the world. A few examples were given as below for reference:

S. No.	Name of University/Institute	Department/School Name
1	Tor Vergata University of Rome	Chemical Sciences and Technologies
2	Argonne National Laboratory, US	Chemical Sciences and Engineering
3	Tezpur University, India	Chemical Sciences
4	Institute of Science, Tokyo, Japan	Chemical Science and Engineering
5	IIT Mandi, India	Chemical Sciences
6	Jawaharlal Nehru Technological University, Hyderabad, India	Centre for Chemical Sciences and Technology

After deliberation, the Department faculty members unanimously propose to modify/revise the name of the Department as “Department of Chemical Science and Engineering” in lieu of the existing name “Department of Applied Chemistry”. It was duly approved in the Department faculty meeting held on 4th June 2026 and subsequently in the Board of Studies meeting held on 5th June 2026.

Decision : The Academic Council considered and recommended the matter to the Board of Management for approval of renaming of “Department of Applied Chemistry” to “Department of Chemical Science and Engineering”.

Agenda 45.11 : Approval of scheme/syllabus for various courses/programs in the Department of Applied Chemistry

It was submitted to the Academic Council that the Board of Studies of the Department of Applied Chemistry in its meeting held on 05.06.2026 approved and proposed the followings for approval of Academic Council:

(i) Scheme and Syllabus for 4th Year (7th and 8th Semester) of Integrated B.Sc/M.Sc (Chemistry) program

Detailed scheme and syllabus along with minutes of BoS meeting were placed in separate *Annexure Book* which was tabled during the meeting.

(ii) Syllabus for New Discipline Specific Elective Courses (DECs).

IMSAC311	Macromolecules
IMSAC306	Organic Synthesis and Heterocyclic Chemistry
IMSAC308	Chemistry of Nanomaterials
IMSAC310	Inorganic Reaction Mechanisms

Detailed syllabus of DECs was placed in separate *Annexure Book* which was tabled during the meeting.

(iii) Syllabus for Skill Enhancement Course

ISEAC202 Basic Software for Chemists

ISEAC302 Chemistry of Cosmetics & Perfumes

Detailed syllabus of SECs was placed in separate *Annexure Book* which was tabled during the meeting.

(iv) Scheme and Syllabus (Semesters III to VI) for minor track (Drug Design and Intellectual Property Rights)

Detailed syllabus was placed in a separate *Annexure Book* which was tabled during the meeting.

S. No.	Course code	Code	Credit /Sem	Course Title	L	T	P
1	IMSAC211	GEC4	4/III rd	Basics of IPR and Computers	4	0	0
2	IMSAC210	GEC5	4/IV th	Basics of Medicinal Chemistry	4	0	0
3	IMSAC313	GEC6	4/V th	Drug Discovery Overview	4	0	0
4	IMSAC315	GEC7	4/V th	Patent Fundamentals for Pharmaceuticals	4	0	0
5	IMSAC312	GEC8	4/VI th	Computational Drug Design Methods	2	0	4
6	IMSAC314	GEC9	4/VI th	Hit-to-Lead and Clinical Considerations	4	0	0
7	IMSAC316	GEC10	2/VI th	Copyright, Trademarks, and Trade Secrets	2	0	0
8	IMSAC411	GEC11	2/VII th	Designs, Geographical Indication, & Case Studies	2	0	0
9	IMSAC412	GEC12	4/VIII th	Pharmaceutical Industries, National & International Drug Regulations	4	0	0
10	IMSAC414	GEC13	2/VIII th	IP Management, Licensing, and Commercialization	2	0	0

(v) Revision of L-T-P for IMSAC305 (Physical Chemistry V: Quantum Chemistry and Covalent Bonding) from 3-1-0 to 4-0-0

The Board of Studies of the department approved the revision in contact hours of the courses IMSAC305 (Physical Chemistry V: Quantum Chemistry and Covalent Bonding) from 3-1-0 to 4-0-0.

The proposals (i) to (v) above were duly approved in the Department faculty meeting held on 4th June 2026 and subsequently in the Board of Studies meeting held on 5th June 2026.

Decision : The Academic Council considered and approved the proposed schemes and syllabus for various courses/programs in the Department of Applied Chemistry with the stipulation that the evaluation scheme for all the courses shall conform to the generic scheme of evaluation of the University.

Agenda 45.12 : Approval of scheme/syllabus for various courses of B.Tech Chemical Engineering

It was submitted to the Academic Council that the Department of Applied Chemistry has proposed the followings for approval of Academic Council:

(i) Approval of the scheme/syllabus of Indian Knowledge System in Chemical Engineering

Pursuant to the implementation of the National Education Policy (NEP) 2020, a VAC course, **Indian Knowledge System in Chemical Engineering** was proposed to be introduced as a **mandatory, non-credit course** in the **B.Tech Chemical Engineering 7th Semester** from the upcoming academic year.

(ii) Change of L-T-P for CH205n: Chemical Engineering Thermodynamics (3-0-2 to 3-1-0)

Currently, the course carries laboratory credits in addition to lecture hours. However, it was observed that the course is predominantly theoretical in nature and involves extensive numerical problem-solving requiring guided practice and discussion. Further, students have already performed basic thermodynamics-related experiments as part of CH102n: Basic Mechanical Engineering. Therefore, the BoS members recommended that the laboratory component of CH205n: Chemical Engineering Thermodynamics be converted into a tutorial component to facilitate better conceptual understanding and problem-solving skills. To eliminate any ambiguity concerning the course offered to students carrying a backlog in the same course, it is proposed that the course code and course title be revised accordingly.

The committee deliberated in detail on the proposed revision and accordingly recommended the following change:

Existing Course	Proposed Course
Course Code: CH205n	Course Code: CH211n
Course Title: Chemical Engineering Thermodynamics	Course Title: Thermodynamics for Chemical Engineering
Course Components	Course Components
Total Credits: 04	Total Credits: 04
L T P: 3 0 2	L T P: 3 1 0

(iii) Revisions in the syllabi of CH203n: Transport Phenomena and CH210n: Fluid Mechanics to eliminate overlapping of topics

The Board of Studies (BoS) of Department of Applied Chemistry reviewed the proposed changes and deliberated upon their academic relevance and impact on the overall learning outcomes of the programme. It was observed that a few topics are currently covered in both **CH203n: Transport Phenomena** and **CH210n: Fluid Mechanics** resulting in overlap and repetition of course contents.

Based on the recommendations of the course coordinator, minor revisions have been proposed in the syllabi of **CH203n: Transport Phenomena** and **CH210n: Fluid Mechanics** to rationalize the distribution of topics between the two courses. Agenda (i) to (iii) has been duly approved in the Department faculty meeting held on 4th June 2026 and subsequently in the Board of Studies meeting held on 5th June 2026.

The IKS Syllabus and recommendations of BoS along with minutes were placed as Annexure in the Agenda note.

Decision : The Academic Council considered and approved the proposed scheme/syllabus of B.Tech Chemical Engineering with the stipulation that the schemes shall conform to the generic scheme of evaluation of the University.

Agenda 45.13 : Approval of change of nomenclature of B.Tech. Information Technology (Cyber Security) to B.Tech. Cyber Security and Revision of Syllabus and Scheme.

It was submitted to the Academic Council that the Board of Studies, Information Technology Department, in its meeting held on 26th May 2026, recommended realigning the nomenclature of the academic program B.Tech. Information Technology (Cyber Security) to B.Tech. (Cyber Security) in accordance with the AICTE approval letter No. North-West/1-46219388018/2026/EOA. And also, BOS has in its meeting held on 30th April 2026 recommended the revised syllabus and scheme of the following courses:

Course code and Subject	Change recommended by BOS
CY101 Data Structures	Syllabus Revised
CY209 Algorithm Design and Analysis	Syllabus Revised
CY329 Multimodal Data Processing	Syllabus Revised
CY208 Secure Coding	Syllabus Revised
CY102 Computer Systems	Syllabus Revised
CY101 Data Structures and CY102 Computer Systems	Swapped CY101 Data Structures with CY102 Computer Systems. Now CY101 is Computer Systems, and CY102 is Data Structures.

The detailed syllabus and scheme are placed in separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the revision of syllabus and scheme of B.Tech. Information Technology (Cyber Security) program. Further, the Council advised to retain the existing name of the program for better placement and admission prospective.

Agenda 45.14 : Approval of Revision of Syllabus and Scheme of B.Tech Information Technology program.

It was submitted to the Academic Council that the Board of Studies, Information Technology Department, in its meeting held on 27th January 2026 and 26th May 2026, recommended the revised syllabus and scheme of the following courses:

Course code and Subject	Change recommended by BOS
IT209 Principles of computing	Syllabus Revised
IT310 Secure Coding	Syllabus Revised
IT203 Data Structures	Syllabus Revised
IT208 Algorithm Design and Analysis	Syllabus Revised
IT417 Multimodal Data Processing	Syllabus Revised
IT207 Data Communications	Syllabus Revised
IT204 Operating Systems	Syllabus Revised
IT302 Data Engineering and Analytics	Syllabus Revised
IT318 Natural Language Processing	Syllabus Revised
IT304 Cyber Security and IT 320 Cyber Digital Forensics	Swapped IT304 Cyber Security with IT 320 Cyber Digital Forensics. Now IT304 is Cyber Digital Forensics and IT320 is Cyber Security. Additionally, Syllabus of both the courses were also revised.
IT205 Data Science & Visualization	Syllabus Revised
IT206 Database Management Systems	Syllabus Revised

The detailed syllabus and scheme were placed in *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the revision of syllabus and scheme of B.Tech. Information Technology program with stipulation that the schemes should be as per the generic scheme of evaluation of the University.

Agenda 45.15 : Revision in scheme & syllabus and increase in the intake from 25 to 30 seats of M.Tech. Information Technology program.

It was submitted to the Academic Council that the Board of Studies of the Information Technology Department, in its meeting held on 30th April 2026, recommended increasing the intake from 25 to 30 seats for the M.Tech. Information Technology, and also, BOS has, in its meeting held on 30th April 2026, & 26th May 2026, recommended the revised syllabus and scheme of the following courses:

Course code and Subject	Change recommended by BOS
ITY 501 Linear Algebra and Probability and ITY511 Fundamentals of Data Science	Swapped ITY 501 Linear Algebra with ITY511 Fundamentals of Data Science. Now ITY 501 is Fundamentals of Data Science, and ITY511 is Linear Algebra.
ITY505 Advanced Operating Systems	ITY505 Advanced Operating system is replaced by Distributed Systems. ITY505 is now Distributed Systems.
ITY505 Advanced Operating System and ITY 526 Applied Cryptography	ITY505 is Applied Cryptography now with the revised syllabus
ITY541 Open-Source Programming and ITY542 Dev Ops and ML Ops	ITY541 is Dev Ops and ML ops with the revised syllabus.
ITY502 Advanced Algorithms ITY 564 Computer Vision	Swapped ITY 502 Advanced Algorithm with ITY564 Computer Vision. Now ITY 502 is Computer Vision, and ITY564 is Advanced Algorithms.
ITY504 Information Security and ITY588 Network Security	ITY 504 is Network Security now with the revised syllabus
ITY526 Applied Cryptography and ITY528 Smart Sensing for the Internet of Things	ITY526 is now Smart Sensing for Internet of Things
ITY 534 Natural Language Processing	ITY534 Natural Language Processing is replaced by Multimodal Computing and Application. ITY534 is now Natural Language Processing.
ITY588 Network Security and ITY505 Advanced Operating Systems	ITY588 Network Security is replaced by Advanced Operating Systems. ITY588 is now Advanced Operating Systems.
ITY542 Dev Ops and ML Ops	ITY542 Dev Ops and ML Ops is replaced by Generative and Agentic AI. ITY524 is now Generative and Agentic AI
ITY601 Distributed and Cloud Computing & ITY534 Natural Language Processing	ITY601 Distributed and Cloud Computing is replaced by Natural Language Processing. ITY601 is now Natural Language Processing

The detailed syllabus and scheme were placed in *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the enhancement of the intake from 25 to 30 seats of the M.Tech. Information Technology program from the academic year 2027-28 and approved the proposed revised scheme and syllabus of M.Tech. Information Technology program.

Agenda 45.16 : Scheme and Syllabus of 3rd to 5th year of Integrated B.Sc. & M.Sc. in Mathematics.

It was submitted to the Academic Council that the Department of Applied Mathematics has started 5-yr Integrated B.Sc. & M.Sc. in Mathematics from the AY 2024-25. The scheme and syllabus of 3rd to 5th year of Integrated B.Sc. & M.Sc. in Mathematics has been approved by BOS on 14/02/2025 and 06/03/2026 is presented here for consideration and approval of Academic Council.

The detailed scheme and syllabus 5-yr Integrated B.Sc. & M.Sc. in Mathematics were placed in *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the proposed scheme and syllabus of 3rd to 5th year of Integrated B.Sc.& M.Sc. in Mathematics.

Agenda 45.17 : Scheme and Syllabus of 3rd and 4th year for Integrated B.Sc. & M.Sc. program in Biotechnology.

It was submitted to the Academic Council that the Department of Biotechnology has developed the **Scheme and Syllabi for the Integrated B.Sc. & M.Sc. Programme in Biotechnology** in accordance with the requirements of the National Education Policy (NEP) 2020, contemporary developments in biotechnology, and the academic framework of the University.

The proposed programme aims to provide students with a strong foundation in basic sciences and biotechnology during the undergraduate phase, followed by advanced specialisation and research-oriented training during the postgraduate phase. The **Board of Studies (BoS) of the Department of Biotechnology**, in its meeting held on 06.03.2026, considered and approved the Scheme and Syllabi of the Integrated B.Sc. & M.Sc. programme in Biotechnology.

Accordingly, the matter was placed in the Academic Council for consideration and approval.

Approved Scheme of the Integrated B.Sc. & M.Sc. programme in Biotechnology was placed in *Annexure Book* which was tabled during the meeting.

Detailed Semester-wise Syllabi of 3rd and 4th year of the Integrated B.Sc. & M.Sc. program in Biotechnology was placed in *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the Scheme and Syllabus of 3rd and 4th year for Integrated B.Sc. & M.Sc. Program in Biotechnology.

Agenda 45.18 : Minor revision of the syllabi of MSBT-2063: Neurosciences and IMSBT-205: Human Anatomy & Physiology in the department of Biotechnology.

It was submitted to the Academic Council that the syllabi of the courses listed below, offered by the Department of Biotechnology, have been revised in accordance with her subject expertise and recent advancements in the respective fields..

MSBT-2063	Neurosciences
IMSBT-205	Human Anatomy and Physiology

The Board of Studies (BoS) of the Department of Biotechnology, in its meeting held on 08.06.2026, considered and approved the revised syllabi of the above-mentioned courses.

Minutes of the Board of Studies (BoS) meeting and revised syllabi of **MSBT-2063: Neurosciences and IMSBT-205: Human Anatomy and Physiology** are placed at ***Annexure pages 01 to 06.***

Decision : The Academic Council considered and approved the minor revision in the syllabi of MSBT-2063: Neurosciences and IMSBT-205: Human Anatomy & Physiology in the department of Biotechnology.

Agenda 45.19 : Introduction of a new non-credit course titled "Indian Knowledge System in Biotechnology" for the B.Tech 7th Semester.

It was submitted to the Academic Council that the Department of Biotechnology has proposed a new non-credit course titled "**Indian Knowledge System in Biotechnology**" with a course structure of **2-0-0 (L-T-P)**

The Board also approved the syllabus of the course titled "**Indian Knowledge System in Biotechnology**".

Syllabus of the course "**Indian Knowledge System in Biotechnology**" is placed at ***Annexure pages 07 to 08.***

Decision : The Academic Council considered and approved the syllabus of the new non-credit course titled "**Indian Knowledge System in Biotechnology**" from academic session 2026-2027.



Agenda 45.20 : To approve the Erasmus+ KA171 Inter-Institutional Agreement (IIA) Template for International Academic Collaboration under Erasmus+ Programme.

It was submitted to the Academic Council that the **Office of International Affairs (OIA), Delhi Technological University (DTU)** proposes the adoption and approval of the **Erasmus+ Key Action 171 (KA171) Inter-Institutional Agreement (IIA) Template** for establishing academic collaborations with international partner universities in Europe under the Erasmus+ Programme.

The Erasmus+ KA171 programme supports international credit mobility of students and staff between higher education institutions in Programme and Partner Countries in Europe. The Inter-Institutional Agreement (IIA) will serve as the official framework governing academic cooperation, mobility arrangements, recognition of credits, participant support, and quality assurance mechanisms between DTU and each of the prospective international partner institutions. The template follows the standard format prescribed by the European Commission for Erasmus+ mobility projects. A MoU prepared under Erasmus+ KA171 with 1 December 1918 University of Alba Lulia, Romania was mooted in 23/04/2025 from OIA. The proposal was duly vetted by R&D office through the panel of the engaged lawyers. The same format was placed for invoking the opportunity of having the MoU with identified and proposed partner institutions (list placed at **Annexure pages 09 to 11**).

The proposed template shall facilitate collaborations in areas including but not limited to:

1. Student mobility for study and research.
2. Faculty and staff mobility for teaching, training, and capacity building.
3. Joint academic and research activities.
4. Exchange of best practices in higher education, innovation, and internationalisation.
5. Promotion of international academic cooperation in disciplines identified by DTU and partner institutions.

The approved template will be utilised by the Office of International Affairs for entering Erasmus+ KA171 partnerships with eligible foreign universities after obtaining the necessary administrative approvals from the competent authorities of DTU, and as per guidelines of GNCTD for signing of MoUs with foreign Universities.

Decision : The Academic Council considered and recommended the matter to the Board of Management for adoption of the Erasmus+ KA171 Inter-Institutional Agreement (IIA) Template for facilitating international collaborations with European Universities under the Erasmus+ Programme with effect from the Academic Year 2026–27.

Agenda 45.21 : Provision for eligible students of 7th and 8th Semesters of B.Tech program to undergo Six-Month Internship.

It was submitted to the Academic Council that a large number of companies have been offering six-month internship + performance based placement offer for students of the 7th and 8th Semesters instead of direct Full-time employment offers (FTE). These internships provide valuable industry exposure and enhance the chances of employment after graduation.

Currently, there is provision of six-month internship during the 8th semester only provided the student can meet the credit requirement for the award of degree.

As per existing ordinance, following is the scheme of examination for B.Tech 7th and 8th semester:

Seventh (7 th) Semester			
S.No.	Subject	Credits	Category
1.	B.Tech. Project - I	4	DCC
2.	Internship*	2	DCC
3.	Department Elective Course - 4	4	DEC
4.	Department Elective Course - 5	4	DEC
5.	Generic Elective Course - 3	4	GEC
6.	Indian Knowledge System	Non credit	VAC
	Total	18	
*Internship to be completed in summer vacation after sixth semester.			

Eighth (8 th) Semester			
S.No.	Subject	Credits	Category
1.	B.Tech. Project - II	8	DCC
2.	Department Elective Course - 6	4	DEC
3.	Generic Elective Course - 4	4	GEC
	Total	16	
	Cumulative credits	166*	

In view of the above, it was proposed that students of 7th and 8th Semesters of B.Tech may be permitted to undertake six-month internships, subject to fulfilment of academic requirements with minor changes in the provisions of ordinance.

1. Interested students can undergo six-month internship in either 7th or 8th Semester (but not in both semesters) provided they have earned at least 132 credits till VIth semester.
2. The condition of minimum 16 credits in a semester may be waived off for final year.

3. The students have to earn at least 6 credits in 7th semester and 8 credits in 8th semester related to compulsory courses. The students opting for internship in 7th semester have to ensure that they take required number of credits in the 8th Semester to meet the criteria for award of degree.
4. As per scheme, Indian knowledge system is an audit course in 7th semester for students admitted in 2023 batch. Now onwards, for the batch admitted in 2024 the audit course Indian Knowledge system is being shifted to VIth semester. The interested students of 2023 admitted batch opting for six-month internship in 7th csemester can take this course in their 8th semester along with VIth semester class of 2024 batch.

Considering the increasing industry demand and the benefits to students in terms of employability and industry exposure, it was proposed to allow eligible students of 7th and 8th Semesters of B.Tech to undertake six-month internships subject to the above conditions.

Decision : The Academic Council considered and approved the provision for eligible students of 7th and 8th Semesters of B.Tech program to undergo Six-Month Internship. The Academic Council also considered and approved shifting of for the audit course Indian Knowledge system to VI semester for students admitted in AY 2024-25 onwards.

Agenda 45.22 : Approval of 02-Credit Course-Specific Micro-Credentials initiatives, including Workshops, Short-Term Courses, Faculty Development Programs and Training Modules.

It was submitted to the Academic Council that the Competent Authority constituted a Committee of the following members to review the proposal of a 02-Credit Course Specific Micro-Credentials to be offered by School of Integrated Learning and Research (SILR):

1. Prof. Rajeshwari Pandey, Chairperson
2. Prof. Rinku Sharma, Dean (PG)
3. Prof. Rishu Chaujar, Associate Dean (UG)
4. Prof. A. Trivedi, Dean (SILR)- Special Invitee

In the meeting of the Committee held on 22.01.2026, the Committee finalized the following credit framework and evaluation methodology for 02-Credit Course-Specific Micro-Credentials offered through SILR:

The 2-Credit Course-Specific Micro-Credentials initiatives, including Workshops, Short-Term Courses (STCs), Faculty Development Programs (FDPs), and Training Modules, to be aligned with the National Credit Framework (NCrF).

According to NCrF guidelines, skill-based, training-based, and capacity-building academic engagements may be assigned credits based on Notional Learning Hours (NLH), allowing learners to accumulate and register these credits in their Academic Bank of Credits (ABC).

Rationale for Proposal

1. To bring DTU's learning ecosystem in alignment with NCrF and NEP-2020.
2. To formally recognise the academic value of structured training, workshops, and FDPs.
3. To enhance lifelong learning pathways for students, research scholars, faculty, and working professionals.
4. To ensure national-level standardisation, transparency, and mobility of credits.

Proposed Framework

After extensive discussion, approval and recommendation of the committee vide meeting notice F. No.105(989)DTU/Acad-UG/2022-23/21073-76 dated 21/01/26 the proposed framework is as follows:

1. Credit Structure for Micro-Credential Courses

The committee approved the following credit–duration equivalence, aligned with NCrf norms:

Particulars	One Week (One Credit)	One Week (Two Credits)	Two Weeks (Two Credits)	Three Weeks (Three Credits)	Four Weeks (Four Credits)
Expert Lectures	10 – 12 hrs	18 – 22 hrs	18 – 22 hrs	28 – 32 hrs	38 – 42 hrs
Tutorial	2 – 4 hrs	3 – 6 hrs	3 – 6 hrs	6 – 8 hrs	8 – 10 hrs
Hands On Tasks (If required in lieu of Tutorials)	4 – 6 hrs	8 – 10 hrs	8 – 10 hrs	12 – 18 hrs	16 – 24 hrs
Industrial Presentation/ Industrial Visits (Optional)	1 – 2 hrs	2 – 4 hrs	2 – 4 hrs	3 – 6 hrs	3 – 6 hrs
Examination	1– 2 hrs	2– 3 hrs	2– 3 hrs	3– 4 hrs	3– 4 hrs

2. Attendance Requirement

- A minimum of 75% attendance shall be mandatory for eligibility to earn credits.
- This requirement is in accordance with DTU academic regulations and NCrf emphasis on active participation.

3. Evaluation and Assessment Framework

The committee recommended a structured, transparent, and outcome-oriented evaluation process, as detailed below:

Evaluation Component	Weightage
Continuous Course Assessment (CCA)	50%
End-Course Assessment(ECA)	50%

A. Continuous Course Assessment (CCA): Suggestive continuous assessment components may include :

- Quizzes
- Short assignments
- Reflective notes
- Problem-solving tasks
- Hands-on tasks
- Field-based activities

B. End-Course Assessment (ECA) shall consist of following components based on the nature of the course

(a) Written examination

AND Any one or more of the following:

(b) Hands-on tasks/ Laboratory work

(c) Oral examination/ Viva-voce

(d) Skill / competency demonstration

(e) Submission of a brief report, portfolio, or logbook

4. Passing Criteria and Credit Award

- Credits shall be awarded only upon securing:
 - o Minimum 35% marks overall, and
 - o Minimum 35% marks in each assessment component
- Failure to meet the minimum criteria in any component shall result in non-award of credit.
- The grade for the course shall be awarded based on absolute grading scheme of DTU

5. Certification

The certificate issued to participants shall clearly mention:

- Course name
- Duration
- Credits awarded
- Summary of assessment components

6. Guidelines for University Authority

- A. A university level standing committee comprising of (i) Dean (UG), (ii) Dean (PG), (iii) Dean (SILR), (iv) Controller of Examination, (v) Convener- Member nominated by Dean (UG) shall guide/monitor and coordinate the micro-credential courses related activities of all the departments.
- B. The standing committee may co-opt faculty members as per the short term courses opted by students, to coordinate activities pertaining to micro-credential courses (if required)/ and submit award list in DTU Performa to Result Section.

Decision : The Academic Council considered and advised to resubmit the agenda as per the decision of Academic Council in agenda number 45.5 of this meeting.

Agenda 45.23 : Revision of “Vision” and “Mission” statements of Delhi Technological University.

It was submitted to the Academic Council that the existing Vision and Mission of the University (DTU) have not been reviewed for more than five years. Keeping in view the evolving educational landscape or national policies (NEP 2020), new strategic priorities/plans, technological development/ growth areas etc. for the University and to fulfil the futuristic goals, the committee of following members was constituted to review the existing Vision and Mission of the University (F. No.: DTU/Reg/Committees/2023-24/209 dated: 26/09/2025):-

1.	Prof. V.K. Minocha, Dean (P&R)	Chairpersons
2.	Sh. Sudhir Vadhera, (Alumni)	Member
3.	Prof. Vishal Verma, Dean (Alumni Affairs)	Member
4.	Prof. S.G. Warker Dean, (SW)	Member
5.	Prof. Girish Kumar, Dean (R&D)	Member
6.	Prof. Shilpa Pal, Director (IQAC)	Member
7.	Prof. Neeta Pandey, HoD (ECE)	Member
8.	Prof. Anil Singh Parihar, HoD (T&P)	Member
9.	Prof. Yasha Hasija, HoD (BT)	Member
10.	Dr. Pawan Singh Mehra, CSE	Member
11.	Dr. Yashna Sharma, PRO	Member
12.	Dr. Amrish K. Panwar, Assoc. Director IQAC	Member Secretary

The “Vision” and “Mission” were placed in 14th external meeting of IQAC in presence of all the stakeholders as mentioned below (reference to letter No. DTU/IQAC/2021/105/179 dated 02 September 2025):

	Existing	Proposed
Vision	➤ “To be a world class university through education, innovation, and research for the service of humanity”	➤ “To be a leading institution of learning, education, research, and innovation for the service of humanity”

	Existing	Proposed
Mission	1. To establish Centres of excellence in emerging areas of science, engineering, technology, management and allied areas. 2. To foster an ecosystem for incubation, product development, transfer of technology and entrepreneurship. 3. To create environment of collaboration, experimentation, imagination and creativity. 4. To develop human potential with analytical abilities, ethics and integrity. 5. To provide environment friendly reasonable and sustainable solution for local and global needs.	1. To create an environment for experiential learning through collaboration with academia, industry, and government. 2. To nurture an ecosystem for fostering incubation, product development, technology transfer, and entrepreneurship. 3. To catalyse research in broad areas of science, engineering, technology, management, and other strategic disciplines. 4. To develop well-rounded human resource rooted in ethics and integrity, delivering responsible and sustainable solutions for societal needs.

In view of the above, the revised Vision and Mission statements of the University were proposed for consideration and approval of the Academic Council.

Decision : The academic council considered and recommended the matter to the Board of Management for revision of “Vision” and “Mission” statements of Delhi Technological University.

Agenda 45.24 : Starting of new program M.Sc. Applied Psychology (with two specialization of Clinical & Counselling Psychology and Organizational Behavior).

It was submitted to the Academic Council that a one-day brainstorming workshop to assess the context and need for offering Post graduation (PG) programme in Psychology was organised in DTU on 17th March 2026. The following were present:

- | | |
|--|-----------------|
| 1. Prof. T. Vijaya Kumar | Director CESH |
| 2. Dr. Vikas Gupta, DSM | Member |
| 3. Dr. M. Jayasimhadri, Applied Physics | Member |
| 4. Prof. Navin Kumar,
Professor of Psychology, DU | External Member |
| 5. Dr. Swati Kedia, Clinical Psychologist, AIIMS | External Member |
| 6. Dr. Sandhya Verma, Scientist-F, DIPR, DRDO | External Member |
| 7. Dr. Amrita Pain, Clinical Psychologist, IHBAS | External Member |
| 8. Ms. Pratishtha Pal,
Clinical Psychologist ABVIMS (RML) | External Member |

The committee deliberated in detail on the academic and professional scope of PG programme in Psychology including specialization tracks to be included in the programme etc. The committee recommended to offer this PG programme as M.Sc. Applied Psychology with three specializations namely Counselling Psychology, Clinical Psychology and Organizational Behaviour with total credit of 90 [44 (1st year) + 46 (2nd year)]. For admission in to the programme, a minimum of Bachelor degree has been proposed.

After the approval of the members in the Brainstorming workshop, the same was placed in Board of Studies, which held its meeting on 15/5/2026, along with other agenda. The following were present:

- | | |
|--|----------------------|
| 1. Prof. T. Vijaya Kumar | Chairperson |
| 2. Prof. Indu S. | Member |
| 3. Prof. Girish Kumar | Member |
| 4. Prof. S. Anbu Kumar | Member |
| 5. Dr. Vikas Gupta | Member |
| 6. Dr. M. Jayasimhadri | Member |
| 7. Prof. Rupashree Baral, Department of
Management studies, IIT, Madras | External Expert |
| 8. Prof. Dinesh Chhabra, Department of
Psychology, DU | External Expert |
| 9. Dr. Sandhya Verma, Scientist-F, DIPR,
DRDO | Expert from Industry |
| 10. Mr. Sanjay Sehgal, Chairman and CEO,
Msys Technologies | Alumni-Member |
| 11. Ms. Ekta Chalageri, Brahma Kumaris | Special Invitee |

The committee approved the proposal to start M.Sc. Applied Psychology with 90 credits along semester-wise scheme and syllabus with two specializations namely Clinical & Counselling Psychology and Organizational Behaviour.

The minimum qualification is a B.A./B.Sc. (General or Honours) degree with a minimum of 55% marks or an equivalent CGPA awarded by a recognized Institute/University, with Psychology as one of the main subjects. Admission to the programme will be based on the score obtained in the CUET - PG exam conducted by the NTA for the paper code HUQP20.

Decision : The Academic Council considered and recommended the matter to the Board of Management for in principle approval for starting of M.Sc. Applied Psychology (with two specialization of Clinical & Counselling Psychology and Organizational Behaviour) in Centre of Excellence for Science of Happiness.



Agenda 45.25 : New 2-credit Value Added Course on “Digital Wellness” for undergraduate students, in addition to the existing basket of value added courses.

It was submitted to the Academic Council that the course objectives, course outcomes, course content for the VAC-Digital Wellness were discussed and approved in Board of Studies. The details are as under:-

Course Code: Course Title	Course Structure			Pre -Requisite
Digital Wellness	L	T	P	None
	2	0	0	

Course Objectives

1. To develop an understanding of digital wellness and its impact on brain, attention, and overall well-being.
2. To introduce the functioning of the brain and mind in relation to digital usage, learning, and memory.
3. To create awareness about the psychological and behavioral effects of excessive digital engagement.
4. To impart practical techniques such as meditation, digital detox, and attention management for balanced living.
5. To promote mindful and responsible use of digital technology for enhancing mental and emotional health.

Course Outcomes

CO1	Develop an understanding of digital wellness, attention, and brain functioning in the context of technology use.
CO2	Apply strategies to manage digital habits, reduce distractions, and improve focus and productivity in daily life.
CO3	Enhance mental well-being by addressing overthinking, stress, and the impact of digital engagement on sleep and emotions.
CO4	Integrate digital hygiene, meditation, and detox practices to maintain a balanced and healthy lifestyle.
CO5	Design and implement a personalized digital wellness plan for sustained well-being and mindful technology use.

S. No.	Course Content	Contact Hours
Unit 1	Basics of Digital Wellness Understanding Wellness - Digital Wellness - Digital Calories - Basics of Brain - Difference between Traditional Entertainment and Digital Entertainment - Difference between Relaxation and Stimulation - Importance of Relaxation - Attention - Benefits of Attention - Attention Disruptors - Cost of Distraction - Continuous Partial Attention - Digital Silence - Power of Attention - Attention Economy - Attention Enhancers	6
Unit 2	Harnessing the Power of Brain Neuroplasticity - Harnessing the Power of Neuroplasticity - Brain's Switching Penalty - Multitasking - Neuro-associative-conditioning - Thinking Brain - Emotional Brain - Science of Learning and Memory - Digital Reading vs Print Reading - Digital Mindset - Learning using Audio and Video - Biliteracy Model - Creativity - Design Thinking - Improving Brain Health and Benefits of Brain's Downtime	6
Unit 3	Harnessing the Power of Mind Understanding about Overthinking - Techniques to overcome Overthinking - Various Mental Health issues (anxiety, depression, comparison, low self-esteem etc.) - Virtual Relationships - Impact of Loneliness - Conceptualizing social media - Impact of social media - Dangers of social media - Positive Self Talk - Science of Sleep - Impact of Digital Devices on Sleep - Negative impact of Lack of Sleep - Science of Meditation	6
Unit 4	Science of Addiction & Deaddiction Understanding Addiction - Neurotransmitters - Pleasure and Pain Circuits - Stages of Addiction - Neuroscience behind Addiction - Impact of Internet on Brain - Various Digital Addictions (Games, Shopping Online, Binge Watching, social media, Porn etc.) - Overcoming Addictions - Impact of Exercise on Physical and Mental health	6
Unit 5	Digital Wellness Techniques Digital Hygiene - Tools for Self-Reflection - Meditation - Digital Detox Techniques - Digital Wellness Plan	6
Total		30

References		
S. No.	Name of Books/Authors/Publishers	Year of Publication / Reprint
1	How to Improve Concentration – Aditi Singhal et al., Penguin eBury Press	2020
2	Atomic Habits – James Clear, Random House Business Books	2018
3	Deep Work – Cal Newport, Piatkus Publishers	2016
4	Dopamine Nation – Anna Lembke, Headline Publishers	2021
5	The Science of Meditation – Daniel Goleman & Richard Davidson	2018

Decision : The Academic Council considered and approved to include a 2-credit Value Added Course on “Digital Wellness” for undergraduate students, in addition to the existing basket of value added courses.

Agenda 45.26 : Introduction of “Happiness & Mental Well-Being” course for PG programs under UEC (Audit Course) and also as a 2-credit course for Ph.D program.

It was submitted to the Academic Council that the course objectives, course outcomes, course content, and practical content for the “Happiness and Mental Well-Being” were discussed and approved by Board of Studies. The details of the course are as under:-

Course code: Course Title	Course Structure			Pre-Requisite
Happiness and Mental Well-being	L	T	P	None
	1	0	2	

Course Objectives

1. To explore Indian traditional practices and apply in modern life
2. To introduce practice-oriented teaching for balanced happy life and well-being
3. To cultivate a holistic approach to happiness, incorporating ethics, resilience and heartfulness techniques.
4. To integrate selfless service, love and spiritual practices for personal

Course Outcomes (CO)

CO1	Develop an understanding of Happiness through positive reframing, higher purpose and spirituality for achieving personal well-being and inner peace
CO2	Apply principles and practices of the Indian Knowledge System, in daily life to practice happiness, compassion and self-awareness.
CO3	Enhance Emotional Intelligence, resilience, and self-control through selfless service, meditation and yogic practices.
CO4	Integrate the scientific understanding and spiritual values to develop a holistic approach toward happiness, mental well-being and balanced living.
CO5	Practice yogic tools such as asanas, meditation, and detox techniques for stress management, mental healing, and achieving sustainable happiness.

S. No.	Course Content	Contact Hours
Unit 1	Achieving state of flow and finding purpose in life, Risk taking, Goal setting, Developing right attitude, Practices harm happiness.	3

S. No.	Course Content	Contact Hours
Unit 2	Taking others along, building strong relationships and collaboration, selfless service, Detachment and resilience, self-awareness and self-control, Balance and peace.	3
Unit 3	Qualities of happy life, Goal setting, Strong habits, facing challenges, values for enriching life, benefits of Happiness, Positive reframing.	3
Unit 4	Higher purpose in life, Happiness in relationship and work place, Neurology of happiness, Vedic perspectives on happiness.	3
Unit 5	Practice of Yogic tools like Asanas, meditation and other detox practices of Heartfulness for mental healing, removal of fear & mental blocks for ultimate happiness.	3
Total		15

References		
S. No.	Name of Books/Authors/Publishers	Year of Publication / Reprint*
1.	Mukundananda, S. The Art and Science of Happiness. Rupa Publications.	2020
2.	Kamlesh D. Patel, Designing Destiny, Spiritual Hierarchy publication	2023
3.	Chopra, D. The Ultimate Happiness Prescription. Harmony.	2009
4.	Krishnan, C. A. The Happiness Flywheel: How to Achieve Success by Leveraging Corporate	2023
5.	Luft, J. <i>Of human interaction</i> . National Press Books.	1969

Expt. No.	Practical Content
Expt. 1	Strengths' identification, purpose in life worksheet, SMART goal setting, and gratitude journaling
Expt. 2	Active listening role play, Johari window, selfless service (Seva), and detachment meditation
Expt. 3	Habit tracker, values clarification, and positive reframing exercises
Expt. 4	Meaningful work reflection, and relationship happiness assessment
Expt. 5	Yogasana practice, pranayama, Heartfulness meditation, fear and mental block release exercise, and digital detox challenge.

Decision : The Academic Council considered and approved for introduction of "Happiness & Mental Well-Being" course for PG programs under UEC (Audit Course) and also as a 2-credit course for Ph.D program.

Agenda 45.27 : Revision/updation of UG scheme and Syllabi of Department of Electrical Engineering.

It was submitted to the Academic Council that the Department of Electrical Engineering has revised the syllabi of Basic Electrical Engineering-I (EE 101), Basic Electrical Engineering-II (EE 105), and Skill Enhancement Course (EE 103) for first-semester students.

In addition, a new Departmental Elective Course, Industrial Switchgear and Protection (EE 429), has been introduced in place of the earlier elective course on Switchgear and Protection, and Cos of Digital Control and State Variable Analysis (EE 315) have been revised as per Bloom's Taxonomy.

The detailed course structures along with minutes of meeting of Board of Studies (BoS), Department of Electrical Engineering were placed as Annexure in the Agenda note.

Decision : The Academic Council considered and approved the revision/updation of UG scheme and syllabi of Department of Electrical Engineering.

Agenda 45.28 : Modification in the scheme of 2nd year B.Tech. Electronics Engineering (VLSI Design & Technology) courses and relevant syllabi.

It was submitted to the Academic Council that the Department of Electronics and Communication Engineering (ECE) commenced the B.Tech. program in Electronics Engineering (VLSI Design and Technology) in the Academic Year 2025–26 with an approved intake of 60 students.

The complete curriculum scheme for the program, along with the syllabi for the first-year courses duly approved by the BoS, was placed before and approved by the Academic Council in its meeting held on 20/05/2025 vide Agenda No. 41.7.

The following revisions in the scheme and syllabi were submitted:

1. The faculty teaching similar courses in B.Tech (ECE) reviewed the courses VL207 Electronic Devices and Circuits- I and VL 206 Electronic Devices and Circuits- II from the perspective of appropriate sequencing aligned with integrated circuit design. Based on the review, the following changes are proposed:
 - VL207 Electronic Devices and Circuits- I is proposed to be renamed as VL207 Electronic Devices and Circuits, and its syllabus is oriented towards a discrete design perspective.
 - The course VL206 Electronic Devices and Circuits-II is proposed to be replaced with VL206 Analog Integrated Circuit Design to keep students abreast with the integrated circuit design perspective.
2. **Renaming of Course:**
 - The course **VL210 Semiconductor Device Modelling** is proposed to be renamed as **VL 210 Semiconductor Device Physics and Modelling** to better reflect the scope and content of the course.
 - The course **VL 210 Semiconductor Device & Modelling** is proposed to be renamed as **VL 210 Semiconductor Device Physics and Modelling** to better reflect the comprehensive scope and content of the course. The current title emphasizes only the modelling aspect, whereas a strong foundation in device physics is essential for accurate modelling of devices, and emerging transistors used in sub-3nm nodes.
 - The rapid advancement of semiconductor technology from micron to sub-3nm nodes, along with the emergence of MEMS, NEMS and sensors necessitates a broader understanding of fabrication beyond conventional CMOS IC processing. To align with current industry practices and the objectives of the India Semiconductor Mission, it is proposed to rename VL209 IC Technology as VL209 Fundamentals of Micro and Nano Fabrication.

The revised scheme and syllabi were approved by the Board of Studies of the Department of ECE and recommended for academic year 2026-27 onwards. The Minutes of BoS meeting and the complete scheme and syllabus of 2nd year B.Tech. Electronics Engineering (VLSI Design & Technology) courses were placed in a separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the modification in the Scheme and Syllabi of the 2nd Year B.Tech. Electronics Engineering (VLSI Design & Technology) Programme, as proposed.

Agenda 45.29 : Introduction of New Elective Courses in B.Tech. (ECE).

It was submitted to the Academic Council that the Department of Electronics and Communication Engineering proposes to introduce new elective courses aligned to current industry needs. While digital logic constitutes the bulk of SoC transistor count, seamless interaction with the physical world requires robust analog and mixed-signal interfaces. The acute global shortage of analog designers continues to impede time-to-market for sensor, RF, and power ICs. Simultaneously, data-intensive workloads have made on-chip memory the dominant determinant of SoC power, performance, and area. Therefore, proficiency in analog/mixed-signal design and memory subsystem architecture has become essential for VLSI engineers to address current industry bottlenecks and enable next-generation systems.

To address this industry need and to provide students with specialized expertise in CMOS Analog.

Integrated Circuits and memory architecture and circuit design, it is proposed to introduce two new courses as under in the B. Tech. (ECE) curriculum:

- EC319 CMOS Analog Integrated Circuits in 5th sem
- EC429 Memory Design in 7th sem

The new electives and their syllabi have been approved by the Board of Studies of the Department and recommended for inclusion from academic year 2026-27 onwards. The syllabi of the courses were placed in a separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved for inclusion of CMOS Analog Integrated Circuits an Memory Design as electives in the B.Tech (ECE) curriculum, as proposed.

Agenda 45.30 : Introduction of Industry Linked Skill courses: 'EC321 Railway Signal Engineering', 'EC323 Conceptual Frameworks for Chip Verification using System Verilog and Intelligent Prompts' and 'EC330 Automatic Train Protection System' in the B.Tech (ECE) curriculum.

It was submitted to the Academic Council that DTU has started offering Micro-Credentials to students of UG and PG programs as elective courses from Academic Year 2025-26 after due approval from Academic Council. It is also mandated to have the Micro-Credential course curriculum designed in consultation with reputed industry to bridge the required skill gap. In this direction, it is submitted that:

Department of Electronics and Communication Engineering, DTU has signed an MOU on 22/04/2026 with Indian Railways Institute of Signal Engineering & Telecommunications, Secunderabad (IRISET), a premier Training Institute of Indian Railways to introduce, industry relevant course in B. Tech. (ECE) and B.Tech. Electronics Engineering (VLSI Design & Technology) curriculum. Under this MoU, it is proposed to introduce:

- EC321 Railway Signal Engineering, and
- EC330 Automatic Train Protection System courses in the 5th and 6th semester in B. Tech. (ECE) curriculum.

It was also proposed to introduce 'EC323 Conceptual Frameworks for Chip Verification using System Verilog and Intelligent Prompts' in collaboration with Siemens, in the 5th semester. This course blends traditional verification concepts with modern AI assisted learning. Students will-

- Learn verification fundamentals, System Verilog constructs, and test-bench methodologies through carefully designed AI prompts instead of traditional lectures.
- Practice hands on test bench development, solve real world verification problems, and participate in a final AI powered code contest that evaluates their understanding and creativity.

The course content has been jointly prepared with Department of ECE, DTU & Siemens by understanding the industrial demands of the concepts and practical skills required.

The new electives and their syllabi have been approved by the Board of Studies of the Department and recommended for inclusion from academic year 2026-27 onwards. The Minutes of BoS meeting and the syllabi of the newly introduced Industry Linked Skill courses EC321, EC330, and EC323 were placed in a separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved for introduction of Industry Linked Skill courses: 'EC321 Railway Signal Engineering', 'EC323 Conceptual Frameworks for Chip Verification using System Verilog and Intelligent Prompts' and 'EC330 Automatic Train Protection System' in the B.Tech (ECE) curriculum.

Agenda 45.31 : Revision in the syllabus and course outcomes of the course Communication Systems (EC 209) being taught as a part of the B.Tech (ECE) curriculum.

It was submitted to the Academic Council that based on the feedback of the faculty members who taught 'Communication Systems (EC209)' course in the previous academic session, the Department of Electronics and Communication proposes to revise the current syllabus of the subject. These revisions are suggested to align the course better with the objectives, include topics currently relevant to the field and remove topics that are no more relevant (and outdated) to the field. This will help in better utilization of instructional time and allow for more focused coverage of core communication systems concepts.

The revised syllabus for EC 209 has been approved by the Board of Studies of the Department and recommended to be implemented from academic year 2026-27 onwards. The revised syllabus and course outcomes for EC 209 were placed in a separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the revisions in the syllabus and course outcomes of the course Communication Systems (EC 209), as proposed.

Agenda 45.32 : Introduction of 03 new VACs on Indian Knowledge System (IKS) in the Department of Electronics and Communication Engineering.

It was submitted to the Academic Council that as per NEP 2020, Indian Knowledge System course has been introduced as mandatory VAC course in B.Tech (ECE) Programme, in VII sem. Prof. Rajiv Kapoor, Dr. Rohit Kumar and Dr. Sonal Singh have proposed three course structures for the same.

The proposed course structures for the courses on IKS have been approved by the Board of Studies of the Department and recommended to be implemented from academic year 2026-27 onwards. The proposed course structures for the courses on IKS were placed in a separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the introduction of 03 new VACs on Indian Knowledge System (IKS) in the Department of Electronics and Communication Engineering..



Agenda 45.33 : Revisions in the syllabus of the course VLS 505 'Semiconductor Devices and Modelling' being taught in M.Tech. (VLS) for the Academic Year 2026-27 onwards.

It was submitted to the Academic Council that the Department of Electronics and Communication Engineering proposes to modify the syllabus of the M.Tech course Semiconductor Device Modeling (SDM) to align with recent developments in semiconductor technology, compact modeling, and nanoscale device engineering. The revised syllabus strengthens the foundation in semiconductor physics while incorporating modern device structures and advanced compact models relevant to current VLSI and semiconductor industry requirements. The previous syllabus primarily focused on conventional semiconductor devices and compact modeling techniques. With continuous CMOS scaling and the transition toward nanoscale transistor architectures, it has become necessary to update the curriculum.

The revisions in the syllabus of the course VLS 505 'Semiconductor Devices and Modelling' being taught in M.Tech. (VLS) have been approved by the Board of Studies of the Department and recommended to be implemented from academic year 2026-27 onwards. The revised syllabus for VLS 505 were placed in *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the revisions in the syllabus of the course VLS 505 (Semiconductor Devices and Modelling), as proposed.

Agenda 45.34 : Approval of Recruitment Rules (RRs) and Recruitment Guidelines for department of Geospatial Science and Technology

It was submitted to the Academic Council that 08 sanctioned posts of Assistant Professors have been transferred to the Department of Geospatial Science and Technology (DGST) as approved vide BOM Supplementary Agenda item No 57.32. In pursuance, the competent authority constituted a Committee vide Office Order No. DTU/Reg/Committees/2023-24/282 dated 09.01.2026 to finalize the Recruitment Rules (RRs) and Recruitment Guidelines for the Department of Geospatial Science and Technology (DGST). The scanned copy of the recommendations of the Committee is placed at **Annexure pages 12 to 13**. The salient details of the recommendations are discussed in subsequent paragraphs.

Separate Recruitment Rules (RRs) for recruitment of faculty for Geospatial Science programs and Geospatial Technology programs - The Committee recommended framing of separate RRs for faculty of Geospatial Science programs and Geospatial Technology programs because *(i) the Department is running both the Geospatial Science (M.Sc in Geospatial Science) and the Geospatial Technology (M.Tech and M.Tech By Research in Geoinformatics) programs. The Department also intends to commence UG programs in Geospatial Technology and Geospatial Science in future (ii) the vacancy creation is based on the strength of the students in respective Geospatial Science and Geospatial Technology programs. Hence, the recruitment of faculty too has been recommended to be carried out separately for Geospatial Science programs and/or Geospatial Technology programs from candidates with commensurate Science or Technology qualifications. Therefore, two separate RRs have been prepared as under -*

- (i) **Recruitment rules (RRs)** for recruitment of Assistant Professor for Geospatial Technology programs. Appropriate provisions or amendments, if any, issued from time to time by the Govt/DTU will be suitably incorporated in these RRs.
- (ii) **Recruitment rules (RRs)** for recruitment of Assistant Professor for Geospatial Sciences programs. Appropriate provisions or amendments, if any, issued from time to time by the Govt/DTU will be suitably incorporated in these RRs.

Guidelines for Recruitment – Detailed Guidelines have been developed and are enclosed along with RRs at **Annexure pages 14 to 24**. Important recommendations mentioned in the guidelines are summarized below –

- (a) **Grouping of Relevant Branches for Recruitment** - Geospatial Science and Technology is a multidisciplinary domain and includes a large number of branches. Since, it is not possible to recruit from all the relevant branches, various relevant branches of Geospatial Sciences and Geospatial Technologies have been appropriately grouped as given in the guidelines so that a balanced recruitment can be done.
- (b) **Screening of Candidates** - The screening of candidates shall be in accordance with the procedure laid down as per BOM Approval vide Agenda 54.18 and amendments thereof, if any.
- (c) **Sanctioned Posts Available by Temporary Transfer/ Creation of Sanctioned Posts** - Currently, 08 sanctioned posts are available by temporary transfer from other Departments and a file for creation of sanctioned posts is in progress with Govt as per AICTE/UGC/ GOI norms. Hence the guidelines have been presented in two parts in accordance with the status of availability of sanctioned posts -
- (i) **Recruitment with 08 Sanctioned Posts available by Temporary Transfer from other departments** - Since currently, only 08 sanctioned posts are available by transfer from other Departments. In order to maintain a balanced focus on both the Geospatial Technology and Geospatial Science faculty based on the current programs being offered, it has been proposed to allot 5 – 6 posts to the Geospatial Technology faculty and 2 – 3 posts to the Geospatial Science faculty. Further, for the purpose of final selection after screening, the tentative distribution of these available sanctioned posts into various relevant Geospatial Technology and Geospatial Science branch groups has been included in the guidelines.
- (ii) ***Recommended weightage for distribution of Posts likely to be available after creation of sanctioned posts amongst relevant Geospatial Technology and Geospatial Science branch groups*** - for the purpose of final selection after screening, the tentative weightage *for distribution of posts* likely to be available after creation of posts into various relevant Geospatial Technology and Geospatial Science branch groups has been included in the guidelines.

Decision : The Academic Council considered and recommended the matter to the Board of Management for approval of the Recruitment Guidelines and the Recruitment Rules for Assistant Professors in Geospatial Science and Geospatial Technology for the Department of Geospatial Science and Technology including the revised age criteria.

Agenda 45.35 : Lateral absorption of medically boarded-out cadets from Pre-Commission Training Institutes / Establishments of Indian Army imparting technical training to cadets into UG programs at Delhi Technological University.

It was submitted to the Academic Council that Delhi Technological University (DTU) has a standing Memorandum of Understanding with the Indian Army (IA) for collaboration in Academics and Research. In pursuance, IA has approached DTU with a request for lateral entry of medically boarded out cadets from pre-commission training institutes / establishments of Indian Army (IA) imparting technical training to cadets into UG programs at Delhi Technological University (DTU). In order to address the request of the IA, the competent authority constituted a Committee vide Office Order No. DTU/Reg/Committees/2023-24/360 dated 12.03.2026 to analyse and assess the various aspects of the request and give its recommendations. The scanned copy of the minutes of meetings and recommendations of the Committee is placed at **Annexure pages 2.5 to 2.8**. The salient details of the recommendations with corrections after due deliberations are presented below -

- (a) **Seat Creation** - It was assessed during the meetings of the committee that most of the cadets get boarded out during the first year, however, the maximum number of such cadets is not more than 2-3 per technical branch. Accordingly, the committee recommended to create a maximum of 03 "supernumerary" seat per academic year as under –
- | | | |
|-------|---|------|
| (i) | Civil Engineering | - 01 |
| (ii) | Electronics & Communication Engineering | - 01 |
| (iii) | Electrical or Mechanical Engineering | - 01 |
- (b) Further, following conditions are laid for lateral absorption/utilization of medically boarded Cadets –
- (i) 01 Supernumerary seat per branch (as shown above) per academic year will be used to offer admission to only one of the medically boarded out Cadets from the 1st or 2nd or 3rd or 4th year. However, first priority (P1) will be given to Cadets seeking admission in 1st year, second priority (P2) will be given to Cadets seeking admission in 2nd year, third priority (P3) will be given to Cadets seeking admission in 3rd year and fourth priority (P4) will be given to the Cadets seeking admission in 4th year.
- (ii) In any academic year, in case there are more than one applicants/Cadets in any one branch and seats are available in other branches, then the seat may be transferred to the branch having more than one applicants/Cadets. However, maximum intake in any branch (across all years) shall not exceed 02 Cadets in any one academic year.

- (iii) Keeping the above points in mind, IA will provide three names, (i) Nominated (ii) Reserve 1 (ii) Reserve 2 in every academic year, against each vacancy (i.e 01 seat each in Civil Engineering, Electronics & Communication Engineering and Electrical or Mechanical Engineering branches for final scrutiny and selection by DTU.
 - (iv) IA at its discretion may share these seats with other sister services viz Indian Navy and Indian Air Force as well, however, the recommendations must be routed through the IA /MI Dte.
 - (v) The nomination of cadets will be the prerogative of the IA, however, final selection and acceptance of cadets will be entirely at the discretion of the competent authority at DTU.
- (c) A SOP (standard operating procedure) for implementation of the above guidelines has been evolved and is enclosed at **Annexure 29 to 33**.
- (d) **Enforcement** – This policy for lateral transfer / admission of medically boarded out cadets will be enforced as under -
- (i) The policy will be enforced upon AC and BOM approval and in accordance with the provisions of legally vetted MoU /MoA.
 - (ii) The policy shall remain effective as agreed upon in MoU/MoA
 - (iii) The policy will be reviewed from time to time in accordance with the changes in regulations received from regulatory bodies.
 - (iv) The policy may be terminated by giving a notice of one month in accordance with the provisions of MoU/MoA between DTU and IA, should there be any reason to do so.
- (e) Besides, DTU will separately evolve its “Migration Policy” and “Multiple Entry and Exit policy” under NEP 2000. In case the number of Cadets in a particular branch in any given year exceed the maximum number of approved supernumerary seats, the Cadets from the Indian Army (IA) may be advised to apply under “Migration Policy” and “Multiple Entry and Exit policy”, if eligible under the policy.

Discussion: The Academic Council appreciated the initiative taken by the University for lateral absorption of medically boarded-out cadets from Pre-Commission Training Institutes / Establishments of Indian Army imparting technical training to cadets. Further, the Council advised to communicate this policy to Ministry of Defence, Government of India to see if, such policy can be extended to other forces/corps.

Decision : The Academic Council considered and recommended the matter to the Board of Management for approval.

Agenda 45.36 : Proposal for reserved vacancies for Indian Army Personnel in various PG programs offered at Delhi Technological University and conduct of Specially Curated Courses.

It was submitted that Delhi Technological University (DTU) has a standing Memorandum of Understanding with the Indian Army (IA) for collaboration in Academics and Research. In pursuance, IA has approached DTU with a request for certain reserved vacancies in various PG programs at Delhi Technological University (DTU) and also for curating certain short courses/ capsule in Geoinformatics & Image Interpretation for the IA personnel. In order to address the request of the IA, the competent authority constituted a Committee vide Office Order No. DTU/Reg/Committees/2023-24/280 dated 05.01.2026 to assess the requirements and give its recommendations. The scanned copy of the minutes of meetings and recommendations of the Committee is placed at **Annexure pages 34 to 50** The salient details of the recommendations with corrections after due deliberations are presented below -

(i) Approval of reserved vacancies for IA personnel sponsored by IA for regular PG Programs in Geoinformatics/Geospatial Science at DTU –

The Committee recommended reservation of seats for Geoinformatics /Geospatial Programs as per the list given at Annexure – II. This includes 01 seat for PhD (Geoinformatics) and 02 seat each for M.Tech (Geoinformatics), M.Tech by Research (Geoinformatics) and M.Sc (Geospatial Science). All these candidates (for PhD, M.Tech, M.Tech By Research, M.Sc) will be considered only against Full Time vacancies only. The additional 01 vacancy for PhD and 02 vacancies (each for M.Tech and M.Tech By Research) will be considered against existing category of sponsored candidates, however, in case there is no category of sponsored candidates then it will be considered as supernumerary. Since there is a restriction on the maximum number of students that a faculty can supervise, the 01 reserved seat for PhD (under Full Time sponsored category) shall be adjusted against the overall vacancies available in the Department. IA/MI Dte shall therefore ascertain availability of vacancies in the Department well in advance before nominating the candidates. Selection and nomination of candidates to be done by IA/ MI Dte as per their internal assessment requirements. DTU will offer admission based on the IA / MI Dte letter of nomination subject to such nominated candidates meeting eligibility criteria as laid down by DTU from time to time. In case; there are more candidates than the above mentioned reserved vacancies, then such candidates who are not nominated by the IA/MI Dte may apply directly against DTU advertisements and will be considered against unreserved vacancies as per admission eligibility and selection criteria. DTU will conduct an online/offline bridge course for the nominated candidates to bring them at par with the other students, if required. The details of the bridge course and the fees shall be intimated at the time of commencement of the course. The fees will have

to be borne by the candidates nominated, and paid before admission. The above reservations of seats may be discontinued at the discretion of the competent authority at DTU under intimation to the IA.

- (ii) **Approval of reserved vacancies for IA personnel sponsored by IA for all regular PG Programs at DTU other than those mentioned at Annexure – II above** - The Committee recommended reservation of 01 seat in all other regular PG programs given at Annexure – III (excluding those given at Annexure – II). These candidates (for PhD, M.Tech, M.Tech By Research, M.Sc, M.BA) will be considered only against Full Time sponsored vacancies. The additional 01 vacancy in each of these programs will be considered against existing category of sponsored candidates, however, in case there is no category of sponsored candidates then it will be considered as supernumerary. Since there is a restriction on the maximum number of students that a faculty can supervise, the 01 reserved seat for Ph.D (under Full Time sponsored category) shall be adjusted against the overall vacancies available in the concerned Department. IA shall therefore ascertain availability of vacancies in the Department well in advance before nominating the Candidates. Selection and nomination of candidates to be done by IA as per their internal assessment requirements. DTU will offer admission based on the IA / MI Dte letter of nomination subject to such nominated candidates meeting eligibility criteria as laid down by DTU from time to time. In case, there are more candidates than the above mentioned reserved vacancies, then such candidates who are not nominated by the IA/MI Dte may apply directly against DTU advertisements and will be considered against unreserved vacancies as per admission eligibility and selection criteria. IA / MI Dte, may also consider utilizing the existing PGT scheme of IA and the R&T scheme of DRDO. DTU will conduct an online/offline bridge course for the nominated candidates to bring them at par with the other students, if required. The details of the bridge course and the fees shall be intimated at the time of commencement of the Course. The fees will have to be borne by the candidates nominated, and paid before admission. The above reservations of seats may be discontinued at the discretion of the competent authority at DTU under intimation to the IA.
- (iii) **Conduct of specially curated courses/ capsule for IA in Geoinformatics & Image Interpretation** - The Committee recommended conduct of the specially curated courses/capsules for IA as requested by the IA. The list of these courses is given at **Annexure III**. Further, in case any additional courses/capsules are required by IA in any other Department, the same will also be considered. The IA/ MI Dte may schedule any number of proposed short courses any time between June to May in the upcoming academic year. However, these courses may preferably be slotted during June – July (Summer vacation) or between 15 Dec – 15 Jan (in and around winter vacation). Besides, preferably, a minimum of three courses must be planned in a year. The schedule of these courses to be conducted during upcoming academic year (June – May) be preferably confirmed before 31 March of

every year so as to allow proper planning and preparation. **Budget for two weeks/three weeks courses both in offline and online mode is as given at Annexure IV. This has been vetted by DTU Accounts and is now subject to approval of IFA (IA). Further, these will be revised / extended in every financial year subject to approval of DTU Accounts and IFA (IA). Mode of conduct – IA / MI Dte may opt for any of the Hybrid, online or offline mode. However, it is recommended that IA / MI Dte must prefer to choose offline more where practically possible particularly for greater exposure to the available academic resources at DTU and for candidates attending first time. The online courses shall also be governed by DTU Digital Education guidelines issued from time to time. Vacancy/intake strength by IA / MI Dte– minimum of 20 and a maximum of 25 vacancies per course is recommended. Creditisation of the curated courses - as per DTU policy to be promulgated separately.**

Decision : The Academic Council considered and recommended the matter to the Board of Management for approval of the proposal to reserve vacancies for Indian Army personnel in various PG programs offered at Delhi Technological University (DTU) and for conduct of specially curated short courses/capsules as requested by IA.

Agenda 45.37 : Renaming of the Department of Humanities to the “Department of Humanities and Social Sciences”.

It was submitted to the Academic Council that the Department of Humanities at Delhi Technological University has evolved significantly beyond its conventional mandate of service teaching. In recent years, the department has expanded its academic, research, and outreach activities to address critical issues at the intersection of **Technology, Society, Governance, and Sustainability**.

In line with the **National Education Policy (NEP) 2020**, which emphasizes multidisciplinary education, policy awareness, sustainability, and social responsibility, it is proposed to rename the department as the **Department of Humanities and Social Sciences** as decided by three experts from outside DTU during a workshop specifically conducted on 05.06.26 for this purpose. The following experts endorsed this nomenclature in the workshop:

1. Mr Ajay Shankar, Distinguished Fellow, TERI
2. Prof. Abhijit Banerji, HoD HSS, IIT Delhi
3. Prof. Vivek Suneja, FMS, Delhi University
4. Prof. Shreekanth Gupta, Emeritus Prof. of Economics, DTU
5. Prof Nand Kumar, Prof. of Economics, DTU
6. Prof. Rajiv Ranjan Dwivedi, Prof. of English, DTU

After the workshop endorsement was also taken from the BOS members of the Humanities Department on 08.06.26 in a BOS meeting.

The renaming reflects:

- The expanded academic scope of the department
- The proposed introduction of new interdisciplinary programmes in Social Sciences, Statistics, and Sustainability Communication.
- The department's emerging role as a hub for Languages, Social Sciences, research, and consultancy.

The proposed change does not alter the core humanities foundation but **strengthens DTU's institutional positioning** as a technological university responsive to national development priorities and global challenges.

The renaming is thus academic, strategic, and future-oriented, enabling the department to meaningfully contribute to education and research.

A. Comparative Note: Benchmarking with Peer Institutions

Global and National Best Practices

Leading technical universities worldwide have restructured humanities departments to incorporate Languages, Sustainability, and Quantitative Social Sciences.

International Examples

- **MIT** – Department of Humanities, Arts, and Social Sciences (Economics, Sustainability)
- **Stanford University** – School of Humanities & Sciences with strong public policy integration
- **ETH Zurich** – Humanities, Social and Political Sciences Department
- **University College London (UCL)** – Public Policy and Environmental Governance programmes embedded within the Humanities

Indian Context

- **IIT Delhi** – Humanities and Social Sciences (policy, development, sustainability)
- **IIT Bombay** – Humanities & Social Sciences with public policy and environmental studies
- **IIT Madras** – Humanities & Social Sciences offering policy, sustainability, and ethics
- **IISc Bengaluru** – Interdisciplinary policy and sustainability programmes

B. DTU's Strategic Opportunity

Unlike many peer institutions, DTU has:

- Strong engineering and data science ecosystem
- Emerging focus on sustainability and governance

C. UGC & FYUP Compliance

- Credit-based modular programmes
- Multiple entry and exit options
- Academic Bank of Credits (ABC)
- Outcome-Based Education (OBE)
- Skill and research orientation

National & Global Relevance

- Climate change & sustainability goals
- Data-driven governance
- Ethical and responsible technology use

D. Strategic Benefits to DTU

Academic

- New degree programmes without duplicating engineering curricula
- Increased interdisciplinary research funding
- Enhanced doctoral and postdoctoral opportunities

Societal

- Builds socially responsible graduates
- Strengthens university–government–industry linkages

Proposed Resolution

"It is resolved that the Department of Humanities be renamed as the Department of Humanities and Social Sciences, with an expanded mandate to offer interdisciplinary teaching, research, and outreach in Languages, Social Sciences, Sustainability Communication and Allied areas, in alignment with NEP 2020 and UGC guidelines."

Decision : The Academic Council considered and recommended the matter to the Board of Management for renaming of the Department of Humanities to "*Department of Humanities and Social Sciences*".



Agenda 45.38 : Syllabus for 3rd Year of Integrated B.Sc. & M.Sc. (Economics) program in the Department of Humanities.

It was submitted to the Academic Council that the Board of Studies, Department of Humanities, proposed the syllabus for 3rd year of Integrated B.Sc. & M.Sc. (Economics) program.

The detailed syllabus was placed in a separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the syllabus for 3rd Year of Integrated B.Sc & M.Sc. (Economics) program. Further, the Academic Council advised to formulate the scheme in consultation with Dean, Academic-PG and Controller of Examination.

Agenda 45.39 : Approval of Indian Knowledge System (IKS) in Environmental Engineering course for B.Tech. program in the Department of Environmental Science & Engineering.

It is submitted to the Academic Council that the Board of Studies (BoS), Department of Environmental Science & Engineering, has approved the Indian Knowledge System (IKS) in Environmental Engineering course for B. Tech. 7th Semester students.

The course structure and syllabus duly recommended by the BoS for implementation from the upcoming academic session 2026-27 along with the minutes of BoS meeting were placed as Annexure in the Agenda note.

Decision : The Academic Council considered and approved Indian Knowledge System (IKS) in Environmental Engineering course for B.Tech. program in the Department of Environmental Science & Engineering.

Agenda 45.40 : Revision of Eligibility criteria and rationalization of seat intake in B.Tech. under Continuing Education for working professional for AY 2026-27 onwards.

It was submitted to the Academic Council that the A committee was constituted under the chairpersonship of Prof. Rinku Sharma, Dean PG to review/examine the admission intake for B. Tech (Continuing Education) with the approval of the Competent Authority vide order no. F.No.DTU/B.Tech (Evening)/2025-26/255/794 dated: 12/03/2026. The Committee has recommended changes relating to intake rationalization and revision of eligibility criteria which are reproduced below:

- I. Rationalization of seat intake: Reduction of sanctioned intake from 60 to 30 in Civil Engineering, Mechanical Engineering and Electronics and Communication Engineering, while retaining 60 seats in Electrical Engineering due to comparatively better demand.

Sr. No	Program Name and Code	Student Intake
1	B. Tech. Civil Engg. (CCE)	30
2	B. Tech. Mechanical Engg (CME)	30
3	B. Tech. Electrical Engg.(CEE)	60
4	B. Tech. Electronics & Communication Engg.(CEC)	30
Total		150

- II. Revision of eligibility criteria: Alignment with AICTE guidelines by reducing the minimum required professional experience from two years to one year for admission to the program.

III. Seat Matrix is given below:

Branch	Category	GEN	EWS	SC	ST	OBC	TOTAL
Civil		11	3	5	2	7	30
	PwD	1	0	0	0	1	
Electrical		24	5	8	4	16	60
	PwD	1	1	1	0	0	
Electronics & Comm.		12	3	4	2	8	30
	PwD	0	0	0	1	0	
Mechanical		11	3	5	2	7	30
	PwD	1	0	0	0	1	

Decision : The Academic Council considered and approved the revision of eligibility criteria and rationalization of seat intake in B.Tech. under Continuing Education for working professional for AY 2026-27 onwards.

Agenda 45.41 : Scheme and syllabus of the 5-year Integrated B.Sc. & M.Sc. (Physics) program.

It was submitted to the Academic Council that the scheme and syllabus for the 5-year Integrated B.Sc. and M.Sc. (Physics) program was discussed in the Departmental faculty meetings of the Department of Applied Physics held on 4th June 2026 and 5th June 2026.

Further, the scheme and syllabus for the 5-year Integrated B.Sc. and M.Sc. (Physics) program was also discussed and approved in the meeting of the Board of Studies (BOS) of the Department of Applied Physics, held on 9th June 2026 at 03.00 PM in the office of the Head of the Department of Applied Physics.

The scheme and syllabus for the 5-year Integrated B.Sc. and M.Sc. (Physics) program as approved by the BoS of the department were placed in a separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the scheme and syllabus for the 5-year Integrated B.Sc. and M.Sc. (Physics) program offered by the Department of Applied Physics.

Agenda 45.42 : Syllabus of MBA (Business Analytics) program in Delhi School of Management.

It was submitted to the Academic Council that the detailed syllabus of the second-year courses of the MBA (Business Analytics) program was recommended by the 43rd meeting of the Board of Studies (BoS), Delhi School of Management (DSM), DTU, held on 04/06/2026. The agenda item was submitted for approval of the Academic Council.

The detailed syllabus for MBA (Business Analytics) program in the Delhi School of Management was placed in a separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the proposed syllabus of the MBA (Business Analytics) program in Delhi School of Management.



Agenda 45.43 : Revision/finalization of scheme and syllabus of various programs in the Department of Computer Science & Engineering.

It was submitted to the Academic Council that the Board of Studies of Department of Computer Science & Engineering recommended the followings:

- (i) Revision of scheme and syllabus for B.Tech CSE (Data Science & Analytics) 2nd year were placed in a separate *Annexure Book* which was tabled during the meeting.
- (ii) Revision of scheme and syllabus for B.Tech Computer Science and Engineering were placed in a separate *Annexure Book* which was tabled during the meeting.
- (iii) Revision of scheme and syllabus for M.Tech by Research (CSE) were placed in a separate *Annexure Book* which was tabled during the meeting.
- (iv) Finalization of scheme and syllabus for M.Tech by Research (Cyber Security) along with minutes of BoS meeting were placed in a separate *Annexure Book* which was tabled during the meeting.

Decision : The Academic Council considered and approved the revision of scheme and syllabus for B.Tech Computer Science and Engineering proposed at (ii) above. The Council advised to review the rest of the above proposal and resubmit the same after consultation with other stakeholders.

Further, the Academic Council advised that whenever any revision/updation in scheme or syllabus is proposed, following should be documented as the part of the proposal invariably:

1. Basis of revision
2. Students feedback
3. Input from Training and Placement cell
4. Input from relevant industry

Agenda 45.44 : Proposal for establishment of a new “Centre of Excellence for Artificial Intelligence (AI)” in the Department of CSE.

It was submitted to the Academic Council that Delhi Technological University (DTU) is actively leveraging artificial intelligence to address critical societal challenges across domains such as cybersecurity, infrastructure resilience, space technology, digital heritage, and advanced materials. Through projects funded by leading agencies like MeitY, DRDO, ISRO, and DST, DTU is developing AI-driven solutions for cybersecurity audit monitoring, secure communication systems, and predictive modelling for slope stability—enhancing national security and disaster preparedness. Its contributions extend to space and remote sensing through AI-enabled satellite pose estimation and cloud removal techniques, improving Earth observation capabilities. Additionally, DTU is applying AI for scientific discovery in advanced materials and enabling cultural preservation through large-scale manuscript digitization and access. Collectively, these initiatives demonstrate DTU's strong commitment to translating AI research into impactful, real-world solutions that strengthen governance, infrastructure, and knowledge systems for societal benefit.

To further scale this impact, DTU proposes the establishment of the Centre of Excellence – Centre of AI for Responsible and Empowered Society (CARES). The Centre will adopt a structured, research-driven, and application-oriented approach to address key urban and societal challenges in Delhi and beyond.

CARES will function within the broader framework of a multidisciplinary Centre of Excellence, with a specific focus on AI-driven research, practical implementation, policy support, and capacity building. DTU's established academic reputation, technical expertise, and location in the national capital make it well suited to host this initiative.

A central component of the Centre will be the development of a High Performance Computing (HPC) infrastructure, which will support advanced AI research, large-scale data analysis, and the deployment of solutions at the city-level.

The Centre will focus on priority areas such as environment, urban mobility, public health, governance, social inclusion, and public safety. Through tools such as predictive analytics and intelligent systems, CARES aims to support more efficient, data-driven, and forward-looking decision-making processes.

The expected outcomes of the Centre include:

- Improvement in public service delivery through AI-based solutions
- Development of skilled human resources in AI
- Promotion of innovation, startups, and industry collaboration
- Adoption of ethical and transparent practices in AI deployment

The activities of CARES will be organized under five key areas: research, application and deployment, capacity building, entrepreneurship, and ethics and governance.

The establishment of CARES will amplify these efforts by creating an integrated, HPC-enabled ecosystem that accelerates research, innovation, and real-world deployment. It will bridge gaps between research, application, and policy through advanced infrastructure, interdisciplinary collaboration, and strong government–industry partnerships. This will enable faster development and scaling of AI solutions, while embedding ethical and inclusive practices, positioning DTU as a national hub for AI-driven public good.

Details for establishment of the Centre of Excellence was placed as Annexure in the Agenda note.

Decision : The Academic Council considered and recommend the matter to the Board of Management for in-principle approval for establishment of a new “Centre of Excellence for Artificial Intelligence (AI)” in the Department of CSE.

Further, the Academic Council advised that the administrative structure and other operational details be framed and placed before the Academic Council for consideration.

Agenda 45.45 : Proposal for starting a new undergraduate program, B.Tech in Computer Science and Engineering–Artificial Intelligence, under the Department of Computer Science and Engineering.

It was submitted to the Academic Council that the Board of Studies of the department of CSE recognized the need for introducing the B.Tech in Computer Science and Engineering–Artificial Intelligence program in view of the growing demand from industry. The Board recommended seeking in-principle approval from the Competent Authority for starting the program.

The Board of Studies further recommended organizing a detailed workshop for the development and finalization of the scheme and syllabus for the proposed program.

It was further proposed that 60 seats from the existing B.Tech Computer Science and Engineering program shall be allocated to the proposed B.Tech CSE–AI program to manage the requirement of new program without overburdening.

Decision : The Academic Council considered and recommended the matter to the Board of Management for in-principle approval for starting a new undergraduate program, B.Tech in Computer Science and Engineering–Artificial Intelligence, under the Department of Computer Science and Engineering.

Agenda 45.46 : Revised guidelines for the Citation Award under Research & Innovation Excellence Awards (RIEA).

It was submitted to the Academic Council that a committee was constituted by the Hon'ble Vice Chancellor, Delhi Technological University, vide office order No. F. No. DTU/R&D/2025/ 148/3114, dated: 11/11/2025, to review and revise the Guidelines for the Citation Award for the researchers of the University.

The Committee held a series of meetings and, after detailed deliberations, finalized the revised guidelines. The revised guidelines are placed before the Academic Council for consideration and approval and are as follows:

The revised Guidelines for the "Citation Award" are as follows:

The certificate of merit shall be awarded to the faculty members of Delhi Technological University in recognition of the impact and influence of their published research work and to motivate individual excellence in research.

1. Definitions:

- i. **University:** 'University' shall mean Delhi Technological University (DTU), Delhi.
- ii. **Faculty Member of the University:** An individual who is a full-time faculty member of the University.
- iii. **First Author:** An author whose name appears first in the list of authors on the title page of the published paper.
- iv. **Corresponding Author:** An author identified as corresponding author in the published paper or in the journal submission system (such as Editorial Manager or ScholarOne). In cases where multiple corresponding authors are indicated, the author who has submitted and handled the manuscript through the journal submission system shall be treated as the corresponding author for the purpose of the award.
- v. **Assessment year:** The year in which the applications for the citation award are scrutinized and evaluated by the University.
- vi. **Citation year:** The year for which the citations shall be counted (assessment year-2).

2. Cumulative Citation Award

The Cumulative Citation Award in each of the following categories shall be conferred only once during the lifetime of a faculty member.

A. Category: Diamond

Any faculty member of the University having cumulative citations of 10,000 or more ($\geq 10,000$) on Scopus, as reported up to 31st December of the citation year (*Assessment year-2*), shall be eligible under this category.

B. Category: Platinum

Any faculty member of the University having cumulative citations of 5,000 or more ($\geq 5,000$) on Scopus, as reported up to 31st December of the citation year (*Assessment year-2*), shall be eligible under this category.

C. Category: Gold

Any faculty member of the University having cumulative citations of 2,500 or more ($\geq 2,500$) on Scopus, as reported up to 31st December of the citation year (*Assessment year-2*), shall be eligible under this category.

D. Category: Silver

Any faculty member of the University having cumulative citations of 1,250 or more ($\geq 1,250$) on Scopus, as reported up to 31st December of the citation year (*Assessment year-2*), shall be eligible under this category.

If a faculty member receives an award in any of the above categories, he/she shall not be awarded in the same category in subsequent years. However, the faculty member may apply for the award in the next higher category as and when he/she becomes eligible.

In a given calendar year, the faculty member shall receive only one award, corresponding to the highest category for which he/she is eligible based on cumulative citations. Once a faculty member has received an award in a higher category, he/she shall not be eligible for an award in any lower category.

3. Highly Cited Paper Award

This award shall be conferred annually on papers published in journals by faculty member of the University satisfying the following conditions:

- a) The paper shall have Delhi Technological University (DTU) as the affiliation, and the faculty member shall be the first/corresponding author, and,
- b) The faculty member shall have cumulative citations exceeding twice the h-index of DTU on Scopus, which shall be notified by R&D office at the time of the call for applications, and,
- c) The paper shall be published in a journal indexed in the Journal Citation Reports (JCR) of the year of the publication of the paper published by Clarivate, and,
- d) A particular paper shall be awarded only once during the lifetime of a faculty member.

4. Yearly Citation Award-Early Research Impact and Influence Award

Any faculty member of the University satisfying the following conditions shall be eligible:

- a) The faculty member shall have total citations equal to **300* or more (≥ 300)** in the citation year** (Assessment year-2) as reported in the Scopus and,
- b) The faculty member should be on the rolls of the university during the citation year (i.e. Assessment year-2).

* *The minimum citation threshold may be revised from time-to-time with the approval of the Vice Chancellor on the recommendation of the Dean IRD.*

** *The citations shall be counted for the period from 1st January to 31st December of the citation year.*

5. APPLICATION AND PROCESSING

- a) A notice shall be issued annually inviting applications for the Citation Award.
- b) Applications shall be submitted in the prescribed format, both online and offline.
- c) Incomplete applications or applications not meeting prescribed eligibility criteria shall be liable to reject at the scrutiny stage.
- d) The recommendations of the screening/scrutiny committee shall be placed before the competent authority for approval. The decision of the competent authority shall be final.

6. POWER TO REMOVE DIFFICULTIES

If any difficulty arises in giving effect to the provisions of these guidelines, the Vice Chancellor may make such provisions, not inconsistent with the provisions in these guidelines, as appear to be necessary or expedient for removing the difficulty.

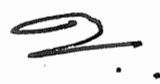
NOTES:

- a) These awards shall be considered annually by a committee constituted to evaluate the applications received from eligible faculty members of the University.
- b) All the publications considered for the count of total citations must be authored by the faculty member claiming the award. In case any incorrect claim is found, the faculty member shall be debarred from applying for the award for a period of three years.
- c) All information related to citations shall be obtained from Scopus (or any other database/agency as may be decided by the university from time-to-time) for the purpose of evaluation.

- d) In the case of Highly Cited Paper Award, if there are multiple corresponding authors in a journal publication and the applicant is not the first author, then the author who has submitted and handled the manuscript through the journal submission system shall be treated as the corresponding author for the purpose of award.
- e) In the case of Highly Cited Paper Award, if multiple applications are received for the same journal paper, only the author appearing first in the author list shall be considered for the award. However, other authors affiliating with the University shall be eligible for the Certificate of Merit.
- f) The journal indexing status and related information shall be verified based on the Journal Citation Reports (JCR) of the year of the publication of the paper published by Clarivate for the purpose of evaluation of the papers.
- g) If an awarded paper is subsequently retracted, the R&D Office shall revoke the award with immediate effect.

The revised guidelines shall be applicable with effect from the Assessment Year 2027.

Decision : The Academic Council considered and recommended the matter to the Board of Management for approval of the revised Guidelines for the Citation Award under Research & Innovation Excellence Awards (RIEA).



Agenda 45.47 : Introduction of a Double Major Track for B.Tech. students with Economics as the second Major from Academic Year 2026-27.

The following proposal was submitted to the Academic Council by the Dean, Faculty Affairs:

1. Objective:

In today's global economy, technology, business decisions, and public policies are increasingly interconnected. Engineers are expected not only to possess strong technical knowledge but also to understand the economic, financial, and policy dimensions that affect the development, deployment, and sustainability of technological solutions. The rapid growth of digital platforms, artificial intelligence, clean energy technologies, smart manufacturing, and data-driven industries has created a strong demand for professionals who can integrate engineering knowledge with economic reasoning.

In alignment with the vision of the National Education Policy 2020, which promotes multidisciplinary and holistic education, and provisions laid in UGC Curriculum and Credit Framework for Undergraduate Programmes, it is proposed to introduce a Double Major Track in Economics for B.Tech. students from the Academic Year 2026–27. The proposed double major track will enable students to acquire a strong foundation in economic principles alongside their engineering discipline, thereby enhancing their analytical capabilities, employability, and preparedness for higher studies. The Double Major Track is expected to produce graduates who can effectively address complex technological challenges while understanding their economic, business, and societal implications, thereby strengthening their competitiveness in both national and global environments.

2. Credit Requirements to enable B.Tech. students to earn a Double Major, with Economics as the second major:

- As per the UGC Curriculum and Credit Framework for Undergraduate Programmes (UGCF) 2022, a student can be awarded a Double Major upon successful completion of at least 40% of the total credits prescribed for the second discipline.
- A review of practices followed by leading technical institutions offering double major programmes, such as Indian Institute of Technology Mandi, indicates that students are typically required to complete approximately 36-50 credits in the second discipline.

In accordance with the UGC guidelines and prevailing practices at other leading institutions, such as IIT Mandi, IIT Ropar etc. it is proposed that a B.Tech. student shall be required to earn 54 credits in Economics to qualify for the award of a B.Tech. degree with a Double Major in Economics. These credits shall be accommodated within the existing B.Tech. curriculum through a

combination of extra credits, course overlapping and aligning Generic Elective Courses (GEC) as electives from second discipline while ensuring that the technical rigour and core requirements of the B.Tech. programme remain unaffected.

2.1 The proposed arrangement of the 54 credits within the existing B.Tech. curriculum is as follows:

S. No.	Pathway for Earning Credits towards the Double Major in Economics	Credits towards the Double Major in Economics
1.	Additional Credits	32
2.	Substitution of 4 Generic Elective Courses (4 credits each) in the existing B.Tech. curriculum with Economics Elective Courses	16
3.	Existing courses on Engineering Economics and Fundamentals of Management (3 credits each) to be counted towards the Double Major requirements	6
	Total Credits	54

2.2 The allocation of credits across the different curricular components of the proposed B.Tech. programme with a Double Major in Economics is as follows:

S. No.	Category	Credit Breakup
1.	Humanities and Social Sciences including Management courses (AEC/ VAC/SEC)	18
2.	Basic Science courses (BSC)	16
3.	Engineering Science courses (ESC)	20
4.	Discipline Specific Core Courses (DCC)	56
5.	Department Elective Courses (DEC)	24
6.	Generic Elective Courses (GEC) (Electives from other technical and / or emerging areas)	16*
7.	Project work, seminar and internship (DCC)	14
8.	Mandatory Community Engagement Course	02
9.	Mandatory non-Credit Courses: (Induction Program, Essence of Indian Knowledge system)	non-credit
10.	Economics Core Courses (ECC)	24
11.	Economics Elective Courses (EEC) (overlapped credits with GEC)	16*
12.	Economics Project	8
	Total	198
*Credits under column 2 of Row 6 and Row 11 are overlapping.		

2.3 The credit distribution across the various curricular components of the B.Tech. programme and the Economics Double Major is presented below:

S. No.	Category	Credit Breakup Major1	Credit Breakup Major2 (Economics)	Overlap
1.	Humanities and Social Sciences including Management courses (AEC/ VAC/SEC)	18	6 (6 SEC)	06
2.	Basic Science courses (BSC)	16	-	-
3.	Engineering Science courses (ESC)	20	-	-
4.	Discipline Specific Core Courses (DCC)	56	24* (Economics Core Courses - ECC)	-
5.	Department Elective Courses (DEC)	24	-	-
6.	Generic Elective Courses (GEC) (Electives from other technical and / or emerging areas)	16	16 (Economics Elective Course - EEC)-	16
7.	Project work, seminar and internship (DCC)	14	08*	-
8.	Mandatory Community Engagement Course	02	-	-
9.	Additional Credits	-	32	-
10.	Mandatory non-Credit Courses: (Induction Program, Essence of Indian Knowledge system)	non-credit		
	Total	166	198	

2.4 The allocation of 54 credits in the proposed Economics Double Major Track is presented below:

Category (C1)	Number of Courses (C2)	Credits (C3)
Core Courses Unique to Double Major (ECONOMICS CORE COURSE - ECC)	6	24*
SECs Overlapping with Single Major	2	6
Core Project (ECON PROJECT)	2	8*
Elective Courses in Economics	4	16

(ECONOMICS ELECTIVE COURSE - EEC)		
Additional Credits (Sum of*)	32	
Total Credits for Double Major (sum of all credits under column C3)	54	
Total Credits for Degree with Double Major	198	

2.5 The proposed semester-wise curriculum structure for the B.Tech. programme with a Double Major in Economics is given below:

First Semester			
Student Induction Program (SIP)			
An SIP of two weeks at the start of first semester, to prepare newly admitted undergraduate for the new stage of their life by facilitating a smooth transition from their home and school environment into the university environment, is mandatory for all the students.			
S. No.	Subject	Credits	Category
1.	Mathematics-I	4	BSC
2.	Physics / Programming Fundamentals	4	BSC/ESC
3.	Interdisciplinary Core Course -1*	4	BSC/ESC
4.	Interdisciplinary Core Course -2*	4	BSC/ESC
5.	SEC-1(Branch Specific)	2	SEC
6.	AEC-1/ VAC-1	2	AEC
7.	Economics Core Course - 1	4	ECC
	Total	24	
Second Semester			
S. No.	Subject	Credits	Category
1.	Mathematics-II	4	BSC
2.	Programming Fundamentals/ Physics	4	ESC / BSC
3.	Interdisciplinary Core Course -3	4	BSC/ESC
4.	Departmental Core Course 1	4	BSC/ESC
5.	SEC-2 (Branch Specific)	2	SEC
6.	AEC-2/VAC-2	2	AEC
7.	Economics Core Course - 2	4	ECC
	Total	24	

*Interdisciplinary Core Courses 1 and 2 shall be allocated from a common pool of Interdisciplinary BSC/ESC Courses. Interdisciplinary Core Courses 1 and 2 in BSC/ESC pool shall be considered equivalent for the purpose of credit completion requirement for award of degree.

Third Semester			
S. No.	Subject	Credits	Category
1.	Interdisciplinary Core-4	4	ESC
2.	Department Core Course-2	4	DCC
3.	Department Core Course-3	4	DCC
4.	Department Core Course-4	4	DCC
5.	Department Core Course-5	4	DCC
6.	Ability Enhancement Course-3/VAC-3	2	AEC/VAC
7.	Community Engagement Course	2*	Mandatory
8.	Economics Core Course - 3	4	ECC
	Total	28	

* Community Engagement Course to be completed in summer vacation after second semester.

Fourth Semester			
S.No.	Subject	Credits	Category
1.	Interdisciplinary Core Course- 5	4	ESC
2.	Department Core Course-6	4	DCC
3.	Department Core Course-7	4	DCC
4.	Department Core Course-8	4	DCC
5.	Department Core Course-9	4	DCC
6.	Ability Enhancement Course-4/VAC-4	2	AEC/VAC
7.	Economics Core Course - 4	4	ECC
	Total	26	

Fifth Semester			
S. No.	Subject	Credits	Category
1.	Department Core Course – 10	4	DCC
2.	Department Core Course – 11	4	DCC
3.	Department Core Course – 12	4	DEC
4.	Engineering Economics/ Fundamentals of Management	3	SEC
5.	Department Elective Course – 1	4	DEC
6.	Economics Elective Course - 1	4	EEC
	Total	23	

Sixth Semester			
S. No.	Subject	Credits	Category
1.	Department Core Course – 13	4	DCC
2.	Department Core Course – 14	4	DCC
3.	Fundamentals of Management/ Engineering Economics	3	SEC
4.	Department Elective Course – 2	4	DEC
5.	Department Elective Course – 3	4	DEC
6.	Economics Core Course - 5	4	ECC
7.	Economics Elective Course - 2	4	EEC
	Total	27	

Seventh Semester			
S. No.	Subject	Credits	Category
1.	B.Tech. Project – I	4	DCC
2.	Internship*	2	DCC
3.	Department Elective Course – 4	4	DEC
4.	Department Elective Course – 5	4	DEC
5.	Economics Core Course - 6	4	ECC
6.	Economics Elective Course - 3	4	EEC
7.	Economics Project – 1**	2	ECC
8.	Indian Knowledge System	Non credit	VAC
	Total	24	
* Internship to be completed in summer vacation after sixth semester.			

Eighth Semester			
S. No.	Subject	Credits	Category
1.	B.Tech. Project - II	8	DCC
2.	Department Elective Course – 6	4	DEC
3.	Economics Elective Course – 4	4	EEC
4.	Economics Project – 2**	6	ECC
	Total	22	
Cumulative credits		198	

** Economics Project I and Project II shall constitute a continuous two-semester project, enabling students to undertake an in-depth study of a selected topic in Economics with applications to engineering, technology, innovation, and public policy.

3. The proposed list of Economics Core and Elective Courses in the Double Major Track is given below:

CORE COURSES:

Semester	Core Course No.	Course Code (Proposed)	Name of the Course	Credits
I	ECONOMICS CORE COURSE - 1	ECC101	Economic Foundations for Engineers	4
II	ECONOMICS CORE COURSE - 2	ECC102	Basic Statistics and Econometrics	4
III	ECONOMICS CORE COURSE - 3	ECC201	Game Theory	4
IV	ECONOMICS CORE COURSE - 4	ECC202	Advanced Econometrics and Causal Inference	4
VI	ECONOMICS CORE COURSE - 5	ECC302	Machine Learning for Economics	4
VII	ECONOMICS CORE COURSE - 6	ECC401	Mechanism Design	4
VII	ECONOMICS CORE COURSE - 7	ECC403	Economics Project - 1	2
VIII	ECONOMICS CORE COURSE - 8	ECC402	Economics Project - 2	6
Total Core Course Credits				32

ELECTIVE COURSES:

- Students are required to complete four elective courses from the following elective basket.
- The chosen courses should be relevant to the requirements and employment prospects of their respective branch.
- Final electives will be offered based on adequate student demand and the availability of faculty.

Economics Elective Course – 1 (Semester 5)	
EEC 301	Econophysics
EEC 303	Computational Microeconomics
EEC 305	Computational Macroeconomics
EEC 307	Time Series Analysis
EEC 309	Spatial Statistics and Spatial Econometrics

Economics Elective Course – 2 (Semester 6)	
EEC 302	Network Economics
EEC 304	Industrial Organization
EEC 306	Economics of Platforms
EEC 308	Economics of Innovation
EEC 310	Behavioural Economics
Economics Elective Course – 3 (Semester 7)	
EEC 401	Energy Economics
EEC 403	Environmental Economics
EEC 405	Health Economics
EEC 407	Public and Regulatory Economics
EEC 407	Labour Economics
Economics Elective Course – 4 (Semester 8)	
EEC 402	Financial Statement Analysis
EEC 404	Financial Engineering
EEC 406	Algorithmic and High-Frequency Trading
EEC 408	Construction Economics & Finance
EEC 410	Transportation Economics

Syllabus of 1st year course ECC 101 is place at **Annexure pages 51 to 53.**

Discussion : Prof. Shashi K. Dhiman, Himachal Pradesh University appreciated the initiative of Double-Major track for B.Tech students with Economics. He further, suggested to explore the possibility of offering such program to BA (Economic) students like BA(E) with Data Science and AI-ML. he also suggested to explore the possibility starting programs in Nuclear Science & Engineering and Aerospace Engineering.

Decision : The Academic Council considered and approved the introduction of a Double Major Track for B.Tech. students with Economics as the second Major from Academic Year 2026-27 along with syllabus of 1st year course ECC 101 with following advise:

- 1. Provision of 'Exit' option for the students to be worked out.**
- 2. The students choosing the option of Double-Major track should be sentisized from beginning.**

Agenda 45.48 : Discontinuation of Summer Semester and institution of Supplementary Examination System w.e.f. Academic Year 2026-27.

It was submitted to the Academic Council by the Dean, Academic-UG that the University, prior to the Academic Year 2020-21, was conducting supplementary examination to help the students clear their backlog(s) and complete the degree requirements. From the AY 2020-21, the University introduced summer semester. However, over the past several academic sessions, this model has resulted in significant operational challenges (like, the number of courses (core/elective) to be floated, number of students registered, conduct of classes in physical mode if the number of registered students is too small etc.). Moreover, the faculty members also expressed their concerns that running full courses during summer is preventing them from utilizing statutory summer break for research, evaluation, and other institutional duties leading to severe resource constraints. Conducting full-scale academic instructions during the summer break also adds undue burden on the University finances.

The matter was discussed in detail during the Deans and Heads meeting held on 19.06.2026. The Deans and Heads unanimously endorsed the proposal to discontinue the summer semester and expressed their support for the reintroduction of the supplementary examination system to facilitate the timely clearance of backlog courses by students.

In view of the facts stated above, it is proposed that the University formally discontinues the summer semester from the upcoming academic session 2026-2027 and reintroduces the supplementary examination system.

Supplementary Examination:

1. From the Academic Year 2026-27 onwards, the supplementary examination system shall be in place and there shall be no summer semester.
2. This shall be applicable to all the students currently on the rolls of the University (irrespective of the year of admission).
3. Students who have been disqualified from appearing in the End Term Examination due to shortage of attendance (Detention) or have been awarded UFM category II or III punishment in mid-term exams and in end-term exams of the same semester or any other disciplinary action shall not be eligible for the supplementary examination.
4. The following cases are eligible for supplementary examination:
 - 4.1 Students having 'F' (Fail) grade or 'I' (Incomplete) grade in the course(s) of their current academic session.
 - 4.2 Students having 'F' (Fail) grade or 'I' (Incomplete) grade in the course(s) of their previous academic sessions.

5. A student appearing in the Regular End Term Examination of a semester shall be permitted to register for and appear in the backlog courses of the immediately preceding semester of the same parity (Odd/Even). In addition, the student may register for theory backlog courses of not more than the two immediately preceding semesters of the opposite parity (Odd/Even). There shall be no restriction on the number of credits.

Illustration: A student appearing in the Regular End Term Examination of the 7th Semester may register for:

- a. all regular courses of the 7th Semester;
 - b. backlog courses of the 5th Semester.
 - c. backlog courses of the 4th and/or 6th Semester.
 - d. There shall be no credit limit.
6. A student registered for a backlog of a pure practical course shall appear in the Practical Examination (PRE) along with the regular students of that course and shall be evaluated by the same panel. No separate Practical Examination (PRE) or evaluation panel shall be constituted for supplementary students. Such students may appear only when the course is offered in its regular semester and shall not be eligible to appear for the supplementary examination in the opposite parity semester.
 7. The students appearing in the supplementary examination shall not be required to attend classes or re-register for the course(s). However, registration for the supplementary examination shall be compulsory and shall be completed within the schedule notified by the Controller of Examinations.
 8. The student will retain his/her mid-term exam (MTE), practical sessional (PRS), class work sessional (CWS) or any other component(s) applicable in the respective course(s) and will re-appear for end-term exam (ETE) or (PRE) only, as applicable.
 9. Students will be awarded marks as per their performance in the supplementary examination. The marks obtained in the supplementary end-term examination ETE/PRE shall replace the earlier ETE/PRE marks of the respective course for computation of the final grade. Marks obtained in all other retained evaluation components shall remain unchanged. Absolute grade system shall be applicable.
 10. Students who have been disqualified to appear in end-term examination (ETE) or practical examination (PRE) in a course, either due to shortage of attendance (Detention) or due to any disciplinary action or have been awarded UFM category II or III punishment in mid-term exams and in end-term exams of the same semester, shall re-register for the respective course(s) in the next academic year, complete the course work and all the components (MTE, CWS, ETE, PRS, PRE or any other component, as applicable) shall be evaluated afresh.

11. For pre-final year (even semester) and final year (even semester) students of a program of more than two years' duration, there shall be a special supplementary exam, after the declaration of pre-final/final year even semester results. Only those students who have successfully cleared all the courses upto and including, the pre-final year (odd semester) for pre-final year students and final year (odd semester) for final year students, respectively, but had 'F' / 'I' grade in one or more courses for which they registered for even semester of pre-final/final year, as the case may be, shall be allowed to appear in special supplementary examination. This is subject to the condition that they have not been disqualified from end-term examination due to shortage of attendance (Detention) or use of unfair means (UFM) or any disciplinary action imposed upon.
12. There shall not be any separate end-term make-up examination for those students found eligible for end-term make-up examination, as per Ordinance of the University. They shall appear in the next available regular/supplementary/special supplementary end-term examination, as applicable. However, till that time, they will be awarded grade as per the Ordinance. No examination fees shall be levied on such students. However, they will register for the examination.
13. Students shall have the following options to clear their backlog(s) or pending course(s):

S.No.	Criteria	Special Supplementary Examination	Supplementary Examination along with Regular Semester Examination	Re-registration
1	Eligibility	This is applicable only for students who are in their pre-final year (even semester) or final year (even semester) of a program of more than two years' duration. The students having 'F' (Fail) grade or 'I' (Incomplete) grade, in their Pre-Final/Final Year even semester	Students having 'F' (Fail) grade or 'I' (Incomplete) grade, and have not been disqualified from end-term examination due to shortage of attendance (Detention) or any disciplinary action imposed upon. Further, the students having UFM punishment of Category II or III and have been awarded 'F' grade in the course(s) during end-term examination shall be	Students having 'F' (Fail) grade and have been disqualified from end-term examination due to shortage of attendance (Detention) or any disciplinary action imposed upon them or a student has been awarded UFM category II or III punishment in



		registered courses provided they have successfully cleared all the courses upto and including, the pre-final year (odd semester) for pre-final year students and final year (odd semester) for final year students, respectively and have not been disqualified from end-term examination due to shortage of attendance (Detention) or use of unfair means (UFM) or any disciplinary action imposed upon.	allowed to appear in supplementary/regular examination in respective course(s) only in the next academic year.	mid-term exams and in end-term exams of the same semester.
2	Attendance	No class attendance. Student shall appear only in the examination.	No class attendance. Student shall appear only in the examination.	Student must attend the class(es) and fulfil the attendance criteria as per the ordinance to enable him/her to appear in the mid-term and end-term examination.
3	Evaluation	Only end-term examination (ETE) component shall be evaluated for theory courses.	Supplementary Examination shall be conducted for both End Term Examination (ETE) component of theory courses and PRE.	All the components (MTE, CWS, ETE, PRS, PRE or any other component(s),

			However, Practical Examination (PRE) components shall be evaluated only along with the Regular Semester Examinations.	as applicable) shall be evaluated afresh for the respective course(s).
4	Conduct of Examination	The examination shall be conducted after the declaration of Pre-Final/Final Year Even Semester results. The schedule shall be notified by the COE	The examination for backlog course(s) of same parity (ODD/EVEN) semester and of the opposite semester shall be conducted simultaneously with the regular end-term examination of the current semester.	The examination shall be conducted at the end of odd and even semesters respectively for courses pertaining to respective semesters.
5	Marks Allocation	Marks of all other components, except ETE, shall be carried forward.	Marks of all other components, except ETE and PRE, as applicable, shall be carried forward.	Marks of previous semesters shall NOT be carried forward. All the components will be evaluated afresh.
5	Credit Limit	There shall be credit limit. The student cannot register for more than the number of credits registered for pre-final year (even semester) or final year (even semester), as the case may be, for registration in the examination.	There shall be no restriction on the number of credits, if a student is appearing in the backlog courses of the immediately preceding semester of the same parity (Odd/Even) and/or for backlog courses of the opposite parity (Odd/Even).	The credit limit mentioned in the Ordinance shall be applicable.

6	Fees	Only examination fees shall be charged.	Only examination fees shall be charged.	Re-registration Fees and/or Examination Fees, as applicable, shall be charged.
7	Grading	Absolute grade shall be awarded.	Absolute grade shall be awarded.	Relative grade shall be awarded as per grade moderation done for the respective class.

14. The Controller of Examination shall notify the registration and window schedule for supplementary examination.

15. The supplementary examination fee shall be decided by the Competent Authority and notified to the students.

Necessary revisions shall be made in the University Ordinance, where ever applicable, to reflect these changes.

Decision : The Academic Council considered and agreed in-principle and recommended the matter to the Board of Management for approval of discontinuation of Summer Semester and institution of Supplementary Examination System w.e.f. Academic Year 2026-27.

Further, the Council advised to work out the operational modalities and authorized the Chairperson, Academic Council to accept the same.

Agenda 45.49 : Matter for Ratification.

i. Annual Fee Structure for the student/International students seeking admission in the Academic Session 2026-27 at DTU.

The Competent Authority has approved the Annual fee structure of the Following programs for the Academic session 2026-27 at DTU.

- A. Bachelor of Technology (B.Tech)
- B. Bachelor of Design (B.Des)
- C. Bachelor of Technology (B.Tech) (Lateral Entry)
- D. Bachelor of Technology (B.Tech) (Continuing Education)
- E. Bachelor of Business Administration (BBA) & B.A Economics (H)
- F. Master of Technology (M.Tech)
- G. Master of Technology (M.Tech) (Part Time)
- H. (i) Master of Business Administration (MBA)
(ii) MBA in Innovation, Entrepreneurship and Venture Development (MBA IEV)
(iii) MBA -Business Analytics (MBA-BA)
- I. Executive MBA
- J. M.Sc. Program & M.A (Economics)
- K. Integrated M. Sc. Programs
- L. M.Tech by Research
- M. Master of Design (M.Des)
- N. Ph.D (Full Time/ Part Time)
- O. Withdrawal Policy.

Annual Fee structure of above-mentioned programs for all students except International students and annual fee structure for International students were placed as Annexure in the Agenda note.

ii. Provision of admission in M.Tech Part – Time Programme and converting it to Supernumerary seats as M.Tech Part - Time Mode

It was submitted to the Academic Council that presently Delhi Technological University offers M.Tech. Programmes in 26 branches across various Departments in the following modes with the intake capacity as under:

- i. 687 seats in Full Time mode
- ii. 312 seats in Part Time Programme
- iii. 125 seats in Sponsored Category (05 Supernumerary Seats in each branch)

The admissions in M.Tech Part- Time Programme was reviewed by the following members:

- 1. Prof. Rinku Sharma, Dean PG & Chairperson, M.Tech Admission (2025-26)
- 2. Prof. Shilpa Pal, Director IQAC and Deputy Chairperson M.Tech Admission (2025-26)

3. Dr. Bindu Verma, Coordinator, IQAC

The observations regarding admission in Part Time Category were as under:

It was observed that admissions under the Part-Time Category are considerably low, resulting in a large number of seats remaining vacant every year. The summary of admissions in the M.Tech. Part Time Category (03-year programme) and Sponsored Category during the last three academic sessions was as below:

Part Time Seats					
Academic Year	Seats Offered	Applications Received	Eligible Candidates	Cleared Admission Test	Admissions Taken (% Admission)
2023-24	312	44	44	35	11 (3.5%)
2024-25	312	56	48	29	12 (3.8%)
2025-26	312	44	35	30	12 (3.8%)
Sponsored Seats					
Academic Year	Seats Offered	Applications Received	Eligible Candidates	Cleared Admission Test	Admissions Taken (% Admission)
2023-24	125	43	10	10	07 (5.6%)
2024-25	125	53	20	08	01 (0.8%)
2025-26	125	66	26	13	05 (4%)

Also, as per the observations of IQAC that, on multiple occasions, clarifications have to be provided before NBA and NAAC peer teams regarding the treatment of Part Time M.Tech. programmes as Continuing Education in nature. If the peer team does not consider it under continuing education, then, Part Time seats are included within the sanctioned intake for the purpose of Student-Faculty Ratio (SFR) calculations despite very low admissions, thereby adversely affecting the institutional SFR.

From the above data, it is evident that admissions in both the Part Time and Sponsored Categories are consistently very low.

Accordingly, an analysis of practices followed by Central Universities, State Universities and IITs with regard to Part Time/Sponsored M.Tech. programs was undertaken.

- The analysis revealed that several leading institutions either do not offer Part Time M.Tech. programs or offer them only in limited/supernumerary mode for working professionals, project staff, institute employees, or sponsored candidates. Many institutions also provide flexibility through evening/weekend classes, lighter course load and extended completion timelines.
- Information regarding Part Time and Sponsored seats is generally not prominently reflected on institutional websites.

- c) Flexible duration models, instead of rigid timelines, are being adopted by several institutions for working professionals.
- d) Supernumerary seats are commonly used for industry professionals and sponsored candidates.
- e) Evening/weekend classes are being offered to facilitate employed candidates.
- f) In institutions where demand is consistently low, eligibility is often restricted to institute staff, project staff or sponsored candidates.
- g) Some leading institutions have altogether discontinued or do not offer Part Time M.Tech. programs.

After detailed deliberations and review of admission trends, practices adopted by other institutions and observations submitted by IQAC, following were proposed:

- 1. The existing Part Time seats in M.Tech. programs may be converted into 05 Supernumerary Seats and be offered as M.Tech Part – Time Mode.
- 2. Such seats may remain outside the regular sanctioned intake and should not be counted towards Student-Faculty Ratio calculations.
- 3. Five (05) Part Time Supernumerary Seats may be provided in each M.Tech. branch, on the lines of the existing Sponsored Category Supernumerary Seats.
- 4. These seats may remain non-category specific, similar to the present Sponsored Category arrangement.
- 5. The proposed arrangement would provide flexibility to working professionals while ensuring rationalization of intake calculations and clarity during NBA/NAAC accreditation processes.
- 6. A revised Seat Matrix for M.Tech. Program for Academic Year 2026-27 has accordingly been prepared, wherein the Part Time Category seats are proposed to be treated as Supernumerary Seats, and the same may be reflected in the M.Tech. Admission Brochure for AY 2026-27.

In view of the above facts, admission trends, observations of IQAC, and recommendations of the Committee regarding conversion of Part Time M.Tech. Programme seats into Supernumerary Seats and offer it as M.Tech in Part Time Mode outside the regular sanctioned intake, the Hon'ble Vice Chancellor, being Chairman of the Academic Council has approved the recommendations of the committee, as above and the same was notified vide Notification NO. 5501-06 dated 25.05.2026.

iii. **Formal registration to following Ph.D students upon successful completion of course work and comprehensive examinations and approval of research plan by respective DRCs.**

Forty-Four (44) students were registered in Ph.D. program upon successful completion of course work and comprehensive examinations and approval of research Plan by respective DRCs. Department-wise list of the registered Ph.D students is as below:

Department of DSM			
S. No.	Name of Students	Name Of Supervisors	Date Of SRC
01	Ms. Noorjan Sameer Aldayyeni, 23/PHDDSM/10	Dr. Shikha N Khera, (Supervisor)	12.12.2025
Department of Biotechnology			
01	Ms. Bhargavi Sharma, 24/PHDBT/05	Prof. Yasha Hasija, (Supervisor) Dr. Sonam Rewari, (Jt-Supervisor)	24.02.2026
02	Ms. Nishita Singh, 25/PHDBT/05	Prof. Pravir Kumar, (Supervisor)	18.05.2026
03	Ms. Anupama Awadhesh Pandey, 24/PHDBT/04	Prof. Yasha Hasija, (Supervisor) Prof. Anil Singh Parihar, (Jt-Supervisor)	18.05.2026
04	Ms. Apurva, 25/PHDBT/02	Prof. Pravir Kumar, (Supervisor)	18.05.2026
Department of Applied Physics			
01	Ms. Shikha Singh 24/PHDAP/05	Prof. Rishu Chaujar. (Supervisor) Prof. R. S. Gupta, (Jt. Supervisor)	16.02.2026
02	Mr. Ashish Chopra, 24/PHDAP/506	Prof. Rishu Chaujar. (Supervisor) Prof. Lalit Kumar, (Jt. Supervisor)	16.02.2026
03	Ms. Vanshika, 24/PHDAP/02	Dr. Sarita Baghel (Supervisor)	18.03.2026
04	Mr. Mohit, 23/PHDAP/503	Dr. Mohan Singh Mehata (Supervisor) Dr. Pawan Kumar Tyagi (Jt-Supervisor)	30.03.2026
05	Mr. Deepak Garg, 24/PHDAP/08	Dr. Ajeet Kumar (Supervisor)	27.04.2026
06	Ms. Pritty Rao, 2K19/PHDAP/13	Prof. Suresh C. Sharma (Supervisor) Dr. Seema Vinayak (Jt- Supervisor)	21.12.2020
Department of Software Engineering			
01	Mr. Richard Michael Mkechera, 24/PHDSE/04	Dr. Sonika Dahiya, (Supervisor)	05.02.2026

Department of Humanities			
01	Mr. Paramjeet Singh, 23/PHD/HUECO/503	Prof. Nand Kumar (Supervisor) Dr. Shikha Gupta, (Jt-Supervisor)	06.02.2026
02	Ms. Shilpa Kumari 24/PHD/HUEG/506	Dr. Saroj Bala (Supervisor)	26.12.2025
03	Ms. Nandita Solanki 24/PHDHUEG/01	Dr. Saroj Bala (Supervisor)	26.11.2025
04	Mr. Samir Kumar Singh, 23/PHDHUECO/502	Prof. Nand Kumar (Supervisor)	07.05.2026
Department of Computer Science and Engineering			
01	Mr. Ravikant Gupta, 23/PHDCO/502	Prof. Anil Singh Parihar, (Supervisor) Dr. Kavinder Singh, (Jt-Supervisor)	06.01.2026
02	Ms. Valluri Daneesha, 24/PHDCO/02	Prof. Rajni Jindal, (Supervisor)	05.02.2026
Department of Mechanical Engineering			
01	Mr. Gaurav Ranjan	Prof. Vijay Gautam, (Supervisor) Dr. Bijendra Prasad, (Jt-Supervisor)	19-03-2026
02	Mr. Rohit Raj, 24/PHDME/08	Prof. Amit Pal, (Supervisor) Dr. M. Zunaid (Jt-Supervisor)	19.03.2026
03	Mr. Bari Mohammed Awadh Mohammed, 24/PHDME/10	Dr. Mohammad Zunaid, (Supervisor) Prof. Rajesh Kumar (Co-Supervisor)	18.02.2026
04	Mr. Sandeep Kumar Gupta 24/PHDME/501	Prof. Rajesh Kumar, (Supervisor) Dr. Mohammad Zunaid, (Jt-Supervisor)	06.05.2026
Department of Information Technology			
01	Ms. Khushbu Gupta 23/PHDIT/504	Dr. Varsha Sisaudia,(Supervisor)	08.01.2026
02	Mr. Archit Agarwal 24/PHDIT/06	Dr. Ritu Agarwal,(Supervisor) Dr. Sachin Taran (Jt-Supervisor)	12-12-2025
03	Mr. Himanshu Verma, 23/PHDIT/01	Dr. Virender Ranga, (Supervisor) Dr. Nematikanti Anand, (Jt-Supervisor)	05-12-2025
04	Mr. Shubham Ahlawat 24/PHDIT/503	Dr. Kapil Sharma, (Supervisor)	05.12.2025
Department of Applied Mathematics.			
01	Mr. Krishna Mishra, 24/PHDAM/509	Dr. Vivek Kumar Aggarwal, (Supervisor)	03.02.2026
02	Ms. Sonia 24/PHAM/02	Dr. Satyabrata Adhikari, (Supervisor)	28.04.2026

Department of Electrical Engineering			
01	Ms. Nupur Mittal, 2K21/PHDEE/510	Prof. J.N Rai, (Supervisor) Prof. Rachna Garg, (Jt. Supervisor)	29.01.2026
02	Mr. Lochan Varshney, 2K21/PHDEE/513	Dr. Chaudhry Indra Kumar, (Supervisor) Dr. Prakash Chittora, (Jt. Supervisor)	17.02.2026
03	Mr. Gaurav Srivastava 2K21/PHDEE/512	Dr. Prem Prakash (Supervisor)	29.04.2026
Department of Electrical & Communication Engineering			
01	Mr. Sheshmani Yadav, 23/PHDEC/501	Dr. Sonal Singh (Supervisor) Dr. Sumit Kale (Jt-Supervisor)	19.12.2025
02	Mr. Vinay Kumar, 23/PHDEC/06	Prof. Pankaj Dahiya (Supervisor) Dr. Harikesh (Jt-Supervisor)	17.12.2025
03	Mr. Amit Agarwal, 23/PHDEC/504	Prof. Sumit Kale (Supervisor)	19.12.2025
04	Ms. Smriti Chand, 23/PHDEC/505	Prof. Dinesh Kumar (Supervisor) Dr. Manjeet Kumar (Jt-Supervisor)	22.12.2025
05	Mr. Anuj Kalra, 23/PHDEC/04	Prof. Neeta Pandey (Supervisor) Dr. Shireesh Kumar Rai (Jt- Supervisor)	31.12.2025
Department of Applied Chemistry			
01	Mr. Bhagat Singh, 23/PHDAC/03	Dr. Manish Jain, (Supervisor) Dr. Deshraj Meena (Jt-Supervisor)	09.04.2026
02	Ms. Monika Mangla, 24/PHDAC/502	Dr. Richa Srivastava, (Supervisor)	27.04.2026
Department of USME			
01	Ms. Preeti Sharma, 24/PHDUSME/06	Dr. Varsha Sehgal (Supervisor) Dr. Megha Joshi (Joint-Supervisor)	12.12.2025.
02	Ms. Pragya Kasana, 24/PHDUSME/05	Dr. Varsha Sehgal (Supervisor) Dr. Amit Mookerjee (Joint- Supervisor)	12.12.2025.
03	Mr. Abhishek Kumar Singh 25/PHDUIEV/01	Dr. Amit Mookerjee (Supervisor) Prof. Ranganath M. Singari (Jt- Supervisor)	07.05.2026
04	Mr. Brijesh Kamal, 24/PHDUSME/504	Dr. Deepti Aggrawal (Supervisor) Prof. Suresh Kumar Garg(Jt- Supervisor)	07.05.2026
05	Ms. Mansift Kaur, 24/PHDUECO/01	Dr. Puneet Kumar Arora (Supervisor) Dr. Virender Kumar (Joint- Supervisor)	14.05.2026
06	Ms. Shivangi Kaushik 24/PHDUSME/03	Dr. Varsha Sehgal (Supervisor) Dr. Nidhi Sharma (Joint- Supervisor)	16.04.2026

iv. Admission Brochure for the Academic year 2026-27.

It was submitted to the Academic Council that the Admission Brochure for the Admission 2026-27 which has already been approved by the Hon'ble Vice Chancellor.

Seat Matrix for M. Tech. (Full Time/Part Time) Programmes

Category	Department/ Branch	AC	AP	BT		CE			DGST	CSE			IT	SE	
		PTE	MST	BIO	IBT	GTE	HRE	STE	GINF	CSE	AI	CYS	IT	SWE	DS
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
GN	GNGN	5	9	10	11	9	9	11	7	11	11	11	10	10	12
	PwDGN		1		1	1	1			1	1	1		1	
Total GN Seats		5	10	10	12	10	10	11	7	12	12	12	10	11	12
SC	SCGN	2	4	4	5	3	2	3	3	5	5	5	4	3	5
	SC-PwD						1								
Total SC Seats		2	4	4	5	3	3	3	3	5	5	5	4	3	5
ST	STGN	1	2	1	2	2	2	2	1	2	2	2	2	2	2
	ST-PwD			1											
Total ST Seats		1	2	2	2	2	2	2	1	2	2	2	2	2	2
OBC	OBCGN	3	6	5	8	7	7	7	4	8	8	8	6	7	7
	OBC-PwD			1					1				1		1
Total OBC Seats		3	6	6	8	7	7	7	5	8	8	8	7	7	8
EWS	EWSGN	2	3	3	3	3	1	2	2	3	3	3	2	2	3
	EWS-PwD						1								
Total EWS Seats		2	3	3	3	3	2	2	2	3	3	3	2	2	3
Total Seats		13	25	25	30	25	24	25	18	30	30	30	25	25	30
Sponsored (SFT)		5	5	5	5	5	5	5	5	5	5	5	5	5	5
Part Time (PT)		5	5	5	5	5	5	5	5	5	5	5	5	5	5
Category	Department/ Branch	EQ			EE			ENV	ME					Total	
		MOC	SPD	VLS	C&I	PSY	PES	ENE	PRD	THE	IEM	ESM	CAAD		
		15	16	17	18	19	20	21	22	23	24	25	26		
GN	GNGN	5	11	9	10	10	11	10	9	10	12	11	11		255
	PwDGN			1			1	1	1			1	1		14
Total GN Seats		5	11	10	10	10	12	11	10	10	12	12	12		269
SC	SCGN	2	2	3	3	3	5	4	3	4	4	5	5		96
	SC-PwD		1								1				3
Total SC Seats		2	3	3	3	3	5	4	3	4	5	5	5		99
ST	STGN	1	2	2	2	2	2	2	2	2	1	2	2		47
	ST-PwD					1					1				3
Total ST Seats		1	2	2	2	3	2	2	2	2	2	2	3		50
OBC	OBCGN	3	6	7	6	7	8	7	7	6	7	8	8		171
	OBC-PwD		1		1					1	1				8
Total OBC Seats		3	7	7	7	7	8	7	7	7	8	8	8		179
EWS	EWSGN	2	2	3	3	1	3	1	3	2	3	3	3		64
	EWS-PwD					1									2
Total EWS Seats		2	2	3	3	2	3	1	3	2	3	3	3		66
Total Seats		13	25	25	25	25	30	25	25	25	30	30	30		663
Sponsored (SFT)		5	5	5	5	5	5	5	5	5	5	5	5		130
Part Time (PT)		5	5	5	5	5	5	5	5	5	5	5	5		130

Seat Matrix for M. Tech. by Research Programmes

Department→ Category↓	AC	AP	BT	CE	TUSE	CSE	CYS	EE	ECE	ENE	IT	DGST	ME	SE
General	6	6	6	6	6	6	6	6	6	6	6	6	6	6
OBC	3	3	3	3	3	3	3	3	3	3	3	3	3	3
EWS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SC	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ST	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	12	12	12	12	12	12	12	12	12	12	12	12	12	12

Seat Matrix for M.Sc.

Category	Department/ Branch	AM Mathematics	AP Physics	AC Chemistry	BT Biotech.	DGST Department of Geospatial Science and Technology	Total
GN	Open	22	23	22	22	10	109
	PwD	1	1	1	1	1	
	Defence CW	1	1	1	1	1	
Total Gen Seats		24	25	24	24	12	
SC	SC	8	8	8	8	4	41
	SC-PwD	0	1	0	1	0	
	Defence CW	1	0	1	0	1	
Total SC Seats		9	9	9	9	5	
ST	ST	4	3	4	5	2	20
	ST-PwD	1	0	0	0	0	
	Defence CW	0	1	0	0	0	
Total ST Seats		5	4	4	5	2	
OBC	OBC	15	15	15	14	8	73
	OBC-PwD	1	0	1	1	0	
	Defence CW	0	1	1	1	0	
Total OBC Seats		16	16	17	16	8	
EWS	EWS	5	5	5	5	3	27
	EWS-PwD	0	1	1	0	0	
	Defence CW	1	0	0	1	0	
Total EWS Seats		6	6	6	6	3	
Total Seats		60	60	60	60	30	270

Seat Matrix for Ph.D

Vacant Seats for full time Ph.D programme with University Scholarship for the session:				
S.No	Name Of the Department	Disciplines Offered by the Department	Code of the Department	Tentative total available seats with DTU fellowship
1	Applied Chemistry	1. Chemistry	AC	3
		2. Chemical Engineering		2
2	Applied Physics	1. Physics	AP	7
		2. Engineering Physics		1
3	Applied Mathematics	1. Mathematics	AM	9
		2. Mathematics and Computing		4
4	Biotechnology	1. Biotechnology	BT	5
5	Design	1. Design	DS	3
6	Delhi School of Management	1. Management	DSM	4
7	Civil Engineering	1. Civil Engineering	CE	9
8	Computer Science and Engineering	1. Computer Science and Engineering	CSE	37
9	Electronics & Communication Engineering	1. Electronics and Communication Engineering	ECE	21
10	Electrical Engineering	1. Electrical Engineering	EE	10
11	Environmental Science and Engineering	1. Environmental Science and Engineering	ENE	5
12	Mechanical Engineering	1. Mechanical Engineering	ME	10
13	Information Technology	1. Information Technology	IT	15
14	Humanities	1. Economics	HUM	0
		2. English		1
15	Software Engineering	1. Software Engineering	SWE	1
		2. Computer Science		1
16	USME	1. Management	USME	4
		2. Economics		4
		3. Innovation Entrepreneurship & Venture Development		2
17	Department of Geospatial Science and Technology (GST)	Geoinformatics	DGST	2
18	CESH	Science and Happiness	CESH	2
19	VDSEmiX	Semiconductor and Microelectronics	VDSEmiX	2
20	COE-EVRT	Electrical Vehicle & Related Technologies		2
21	Centre of Community Development & Research	Community Development & Research	CCDR	2
22	Nodal Centre of Excellence in Energy Transition	Energy Science and Engineering	NCEET	2

The admission brochures of M.Tech. M.Tech. by Research, M.Sc. and Ph.D were tabled.

v. Commencement of certificate course of six weeks titled as “Applied AI, Data Analytics and Entrepreneurship”

It was stated that for the commencement of certificate course of six weeks titled as “**Applied AI, Data Analytics and Entrepreneurship**”, a proposal was submitted to Hon’ble VC for approval by the office of Dean, Outreach & Extension Activities. Due to paucity of time and because the certificate course was to be done in summer vacation only, the proposal was approved by Hon’ble VC (as Chairman of Academic Council) on 7th May, 2026. The course details along with its Revenue model are placed at **Annexure pages 5.4 to 6.1**.

vi. Amendment in Age Criteria in the recruitment rules for the posts of Assistant Professor, Associate Professor and Professor in DTU.

It was submitted to the Academic Council that the Board of Management in its 59th meeting held on 07.05.2026 vide agenda no. 59.8, considered and approved the amendment in Age Criteria i.e. “No age bar” in the RRs for applying to the posts of Assistant Professor, Associate Professor and Professor in DTU.

vii. Revision of Recruitment Regulations for the post of Assistant Professor in all the concerned departments of DTU.

It was submitted to the Academic Council that the Board of Management in its 59th meeting held on 07.05.2026 vide agenda no. 59.12, considered and approved the revised Recruitment Regulations for the post of Assistant Professor across all the concerned departments of DTU with modification in age criteria as “No age bar” in line with the decision of the Board of Management in the agenda no. 59.8 and same have been notified vide notifications dated 16.06.2026 which were tabled during the meeting.

viii. Implementation of Flexible Cadre Structure in DTU.

It was submitted to the Academic Council that a Committee was constituted by the Competent Authority vide Office Order No. 1/2-904/ 2024/ Estt./ DTU/ 1410 dated 22.08.2025 and further the committee was amended vide office order dated 12/12/2025 to adjust the positions of faculty members promoted under the Career Advancement Scheme (CAS) and to implement the Flexible Cadre Structure (FCS) in accordance with the AICTE Regulations, 2019. The implementation is to be done without disturbing the reservation roster and policies of DTU.

The Committee, in its meetings held on 26.08.2025 and 09.09.2025, 26/02/2026, 23.03.2026 and 10/04/2026 recommended the adoption of the Flexible Cadre Structure for DTU in accordance with the AICTE Regulations, 2019. The recommendations are based on the total sanctioned posts of Professors, Associate Professors and Assistant Professors, as approved by the Government of NCT of Delhi, vis-à-vis the

existing faculty strength, including promotions under CAS. The flexible Cadre Structure is implemented in DTU on the basis of vacancies available as per the duly signed rosters by Liaison Offices of SC/ST & Liaison Officers of OBC DTU. The overall sanctioned strength, filled positions, and vacancies remain unchanged; however, the new structure will result in an increased number of Professors and Associate Professors in positions and vacancies will be increase at the level of Assistant Professors. The following are the norms of AICTE Notification dated 01/03/2019:

- (i) Incumbent faculty members be upgraded to higher positions, after being eligible through a process of promotion to be held annually, irrespective of availability of Vacancy in that cadre.
- (ii) The incumbent so upgraded to higher position shall be re-designated as Assistant Professor (Senior Scale)/Assistant Professors (Selection Grade)/ Associate Professor/ Professor as the case may be.
- (iii) With this cadre structure, more faculty members may become Professors/Associate Professor at some point of time as a result of which, cadre ratio as an example may become skewed such as 9:0:0 or 8:1:0 or 5:1:3 etc. but in any case it should not be 0:0:9 or 0:1:8 or 0:2:7.
- (iv) The total numbers of minimum faculty positions remain the same as calculated from faculty: student ratio, through the cadre ratio is improving with these promotions.
- (v) The lower post can be treated vacant once the incumbent moves on higher post through promotions or through direct selection by keeping total sanctioned posts of all cadres put together as fixed.
- (vi) This vacant post will be filled by suitable eligible incumbent possessing required qualifications.
- (vii) If a suitable candidate is not available, the post shall be filled by open selection.
- (viii) The open selection/promotion shall be made by a committee constituted as per norms published in this gazette.
- (ix) The candidate shall be promoted from lower cadre to higher cadre as and when they complete eligibility criteria for the higher cadre, irrespective of availability of post in that cadre.

The committee, based on the total sanctioned posts of Professors, Associate Professors and Assistant Professors, as approved by the Government of NCT of Delhi, vis-à-vis the existing faculty strength, including promotions under CAS and recommends that the flexible Cadre Structure may implemented in DTU on the basis of vacancies available as per the duly signed rosters by Liaison Offices of SC/ST & Liaison Officers of OBC DTU. The overall sanctioned strength, filled positions, and vacancies remain unchanged; however, the new structure will result in an increased number of Professors and Associate Professors in positions and vacancies will be increase at the level of Assistant Professors.

Consolidated summary after implementing Flexible Cadre Structure in DTU

Post	Post Sanctioned	Faculty as 01.04.2026	Effect after implementation of FCS	Total vacant after implementation of FCS	Total Position filled (Direct/Upgraded)	Total Vacant
	A	B	C	D	E	F
Professor	79	15	32*	-	47	32
Associate Professor	159	69	7**	24	76	83
Assistant Professor	489	279	-	39	240	249
Grand Total	727	363	39	63	363	364

* (8 Assistant Professor) + (24 Associate Professor) = 32

** (31 Assistant Prof upgraded to Associate Prof) – (24 Associate Prof upgraded to Prof) = 07

The recommendations of the committee after due deliberations are as follows:

1. The **roster of DTU** may be **updated** as per the department-wise details provided in *Annexures A to X*. The vacancies have been determined after adjusting the faculty positions in accordance with the provisions laid down under the **AICTE Regulations, 2019** pertaining to the **Flexible Cadre Structure (FCS)**, without disturbing the existing **reservation roster** and **reservation policies** of DTU.
2. The **Flexible Cadre Structure**, as prescribed by AICTE, may be **implemented as per institutional requirements**, and the relevant vacancies may be **reviewed and assessed periodically** to facilitate timely filling of positions in DTU.

As discussed in the 58th BoM meeting held on 18.03.2026, and in the concluding remarks, Special Secretary, Finance, GNCTD (Nominee of Pr. Secretary, Finance, GNCTD) expressed his concern over 50% vacancies in teaching posts and 75% vacancies in non-teaching posts and advised to fill these vacant posts as soon as possible. Implementation of Flexible Cadre System will expedite the recruitment process.

The copy of minutes of the committee along with other documents was tabled.

The Board of Management of DTU in its 59th meeting held on 07.05.2026 vide agenda no. 59.6 considered and approved the implementation of proposed Flexi Cadre Structure in the University.

Decision: The Academic Council ratified the above actions of the University.

Agenda 45.50 : Matter for Information.

i. Seat Matrix of various programs for the year 2026-27.

- (I) B.Tech. Seat Matrix was placed as Annexure in the Agenda note.
- (II) B.Des Seat Matrix was placed as Annexure in the Agenda note.
- (III) B.A (H) Economics Seat Matrix was placed as Annexure in the Agenda note.
- (IV) BBA Seat Matrix was placed as Annexure in the Agenda note.

ii. Cancellation/withdrawal made in Ph.D programme for the Academic Year 2025-26.

It was submitted for information that the following cancellation/ withdrawal were made in various Ph.D programs for the Academic Year 2025-26. The details are as follows:

Sr. No.	Roll No.	Name of Scholar	Department	Effect from
1.	2K18/PHDME/527	Mr. Saurabh Singh	ME	12.05.2026
2.	23/PHDEE/02	Mr. Devanshu Saxena	EE	27.02.2026
3.	23/PHDCE/07	Mr. Abhishek Singh	CE	06.01.2026
4.	2K18/PHDAM/16	Mr. Sanyam Gupta	AM	08.01.2026
5.	23/PHDDSM/505	Mr. Abhishek Singh	DSM	15.12.2025
6.	25/PHDDSM/517	Mr. Subham Kumar Keshri	DSM	13.02.2026
7.	25/PHDDSM/507	Ms. Kanika Yadav	DSM	19.02.2026
8.	25/PHDDSM/514	Ms. Aarti Gaur	DSM	19.02.2026
9.	24/PHDHUEG/03	Ms. Monika Chaudhary	HUM	05.02.2026
10.	25/PHDDSM/04	Mr. Hemant Bisht	DSM	07.01.2026

The Academic Council noted the above information.

Agenda 45.51 : Any other item with the permission of the Chair.

With the permission of the Chair following matter was also considered by the Academic Council:

Revision of Guidelines for Utilization of Research Faculty Development Fund (RFDF).

It was submitted to the Academic Council that a Committee was constituted by the Hon'ble Vice Chancellor, Delhi Technological University, vide office order No. F. No. DTU/R&D/2026/ 02/3245(a), dated: 06/02/2026, to review and revise the Guidelines for Utilization of Research Faculty Development Fund so as to widen the scope of activities and purposes for which the fund may be utilized.

The Committee held a meeting and finalized the revised guidelines. The revised guidelines are placed before the Academic Council for consideration and approval and are as follows:

The revised Guidelines for Utilization of Research Faculty Development Fund (RFDF):

The RFDF available with the Principal Investigator (P.I.) may be utilized, with prior approval of Dean (R&D), for the following purposes:

A. Expenditure after approval of Dean (R&D)

1. Purchase of equipment for research/academic laboratories.
2. Purchase of office and laboratory furniture.
3. Purchase of air purifiers, air conditioners and room heaters for offices and laboratories.
4. Purchase of PCs (laptops/MacBooks, desktops, workstations, tablets/iPads, graphic tablets).
5. TA/DA, registration fees and accommodation charges for attending conferences in India or abroad, or for professional activities promoting sponsored research projects.
6. Recruitment of project staff/interns on a temporary basis, for a maximum period of three years.
7. Payment of article publication charges in journals.
8. Payment of university guest house charges for external faculty involved in R&D work.
9. Payment for procuring case studies, simulation packages, and related teaching-learning materials.

B. Reimbursement-Based Expenditure

1. Purchase of contingency items including, USB hubs, connectors, pen drives, external HDDs, SSD, cartridges, printers, routers, keyboards, mouse, laptop stands, laptop carry case, adapters, and batteries.
2. Purchase of various softwares, including antivirus, MS office or any type of academic/research software, professional cloud-based applications for research/academic purposes, and cloud storage fee.
3. Upgradation/repair of existing equipment's and computer/laptop.
4. Payment of membership fees for professional societies.
5. Purchase of research and academic resources, including books, periodicals, book chapters, research related databases, journal subscriptions, videos, and teaching/learning materials.
6. Purchase of chemicals, consumables and glassware.
7. Hospitality expenses for developing research collaborations, subject to a ceiling of Rs. 5,000 per month.

C. General Conditions

1. Any other expenditure not covered in the above list may be permitted with the prior approval of the Dean (R&D).
2. All items procured under RFDF shall be accounted by the concerned P.I, department/centre and shall remain the property of the University.
3. The office of Dean (R&D) shall maintain records of RFDF utilization and monitor compliance with university rules and procedures.
4. All purchases and expenditures shall be governed by the applicable financial rules, procurement procedures and audit requirements of the University.
5. Any expenditure claimed under RFDF must not have been claimed or reimbursed under any other University scheme, project, grant, or funding source.

Decision : The Academic Council considered and recommended the matter to Board of Management for approval of the revised Guidelines for Utilization of Research Faculty Development Fund (RFDF).

The meeting ended with a vote of thanks to the Chair.


(Binod Doley)
Registrar
14/7/2026

ANNEXURE

to Minutes

45th meeting of
Academic Council,
DTU

24-06-2026

MINUTES OF THE BOARD OF STUDIES (BoS) MEETING

Department of Biotechnology

Date: 08 June 2026

Venue: Committee Room, Department of Biotechnology

A meeting of the Board of Studies (BoS) of the Department of Biotechnology was held on 08 June 2026 in the Committee Room of the Department of Biotechnology. The following agenda was discussed

Agenda Item No. 1

Approval of Revised Syllabi

The revised syllabi of the following courses were presented before the Board for consideration:

1. IMSBT-205: Human Anatomy and Physiology
2. MSBT-2063: Neurosciences

The members deliberated on the proposed revisions and found them to be in accordance with the academic requirements and current developments in the subject areas.

Resolution:

The Board of Studies unanimously approved the revised syllabi of IMSBT-205: Human Anatomy and Physiology and MSBT-2063: Neurosciences for implementation from the Academic Session 2026-27.

Agenda Item No. 2

Introduction of a New non credit Course

The Board considered the proposal for the introduction of a new **non-credit course** for the B.Tech Seventh Semester titled **"Indian Knowledge System in Biotechnology."**

The syllabus was presented before the Board and discussed in detail. The members appreciated the inclusion of Indian Knowledge Systems (IKS) with a focus on their applications in biotechnology, healthcare, food biotechnology, sustainability, and innovation. The Board observed that the course would provide students with interdisciplinary exposure to indigenous knowledge systems and their relevance to modern scientific advancements.

Resolution:

The Board of Studies unanimously approved the syllabus of the non credit course titled **"Indian Knowledge Systems in Biotechnology"** for implementation from the Academic Session 2026-27 and recommended the same for consideration and approval by the Academic Council.

Members Present:

[Handwritten signatures of members present]

ANNEXURE I

MSBT-2063 Neuroscience

Sem	Subject Code	Course Title	Type	Credits	L	T	P	TH	PR	CWS	MTE	ETE	PRS	PRE
II	MSBT-2063	Neuroscience	Elective	4	3	0	2	YES	YES	15	20	40	10	15

COURSE OVERVIEW

This course provides an integrated understanding of the structural and functional organization of the nervous system. It covers neuroanatomical organization of the central and peripheral nervous systems along with neurophysiological mechanisms underlying neural signaling, synaptic transmission, sensory processing, motor control, and homeostatic regulation.

COURSE OBJECTIVES

By the end of this course, students will be able to:

1. To provide a comprehensive understanding of the structural organization of the central and peripheral nervous systems.
2. To explain the physiological principles governing neuronal excitability, synaptic transmission, and neural communication.
3. To correlate neuroanatomical structures with their functional roles in sensory, motor, and integrative processes.
4. To introduce experimental and clinical approaches used in the study of nervous system function.
5. To develop analytical skills for interpreting neural mechanisms underlying normal and pathological conditions.

COURSE OUTCOMES (CO)

After the completion of this course, the students will be able to:

CO No.	Course Outcomes
1	Describe the gross and microscopic organisation of the nervous system and its major subdivisions.
2	Explain the electrophysiological properties of neurons and mechanisms of synaptic transmission.
3	Relate neural structures to physiological functions involved in sensation, movement, and autonomic regulation.
4	Analyze neural circuits and pathways involved in information processing and integration.
5	Interpret basic clinical and experimental data related to neurological function and dysfunction.
6	Apply foundational neuroanatomical and neurophysiological concepts to advanced research and interdisciplinary studies.

Dr. Shweta *Dr. Anurag* *Dr. Anurag* *Dr. Anurag* *Dr. Anurag* *Dr. Anurag*

COURSE ARTICULATION MATRIX

COs \ POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3		1	1		2		1	1		2
CO2	3		2	2		1		1			2
CO3	3		2	1		2		1	1		2
CO4	3	1	3	2		2		1	1		3
CO5	2	1	3	3		2	1	2	2		3
CO6	3	2	3	3	1	3	1	2	2	1	3

Note: 1-Low, 2-Medium, 3-High

COURSE CONTENT

Unit 1. Introduction and Organization of Nervous System (6 hours)

Organization of Nervous System, Central Nervous System, Peripheral Nervous System, Somatic Nervous System and Autonomic Nervous System, Neuron and its Structure .

Unit 2. Nerve Conduction and Bioelectric Signals (10 hours)

Biopotential and its genesis, Resting Potential, Ions responsible for generation of Resting Potential, Sodium Potassium Pump, Action Potential, Potential and Ionic Changes in generation of Action Potentials, Structure and types of Synapse, Synaptic Potentials, EPSP, IPSP and Neurocontrol Mechanisms, Synaptic Plasticity, Receptors: Types, Characteristics, Receptor Potentials.

Unit 3. Central Nervous System (10 hours)

Introduction to Brain and Spinal Cord, Spinal Cord- Anatomy, Afferent and Efferent Nerves, Brain- Gross features and functions of Cerebrum and Cerebellum, Medulla Oblongata- Gross Features and Functions Diencephalon- Anatomy, Ventricles, Thalamus, Hypothalamus

Unit 4. Limbic System: Cognition and Memory (10 hours)

Components of Limbic System, Hippocampus, Amygdala, Pre Frontal Lobe, Diseases associated with malfunctioning of Limbic System, Forgetting, Alzheimer's, Schizophrenia, OCD, Autism

Unit 5. Neuroendocrine System (8 hours)

Introduction to Neuroendocrine System, Thalamus, Hypothalamus, Pituitary Gland, Thyroid Gland, Parathyroid Gland, Pancreas, Adrenal Gland, Thymus, Mechanism of Hormone Action

Signature of Dr. Shilpa *Signature of Dr. Shilpa* *Signature of Dr. Shilpa* *Signature of Dr. Shilpa* *Signature of Dr. Shilpa* *Signature of Dr. Shilpa* *Signature of Dr. Shilpa*

BIBLIOGRAPHY

Textbooks:

1. **Kandel, E.R., Koester, J.D., Mack, S.H., & Siegelbaum, S.A.** *Principles of Neural Science* (6th Edition). McGraw-Hill, 2021.
2. **Purves, D., et al.** *Neuroscience* (7th Edition). Oxford University Press, 2023.

Reference Book(s):

1. **Bear, M.F., Connors, B.W., & Paradiso, M.A.** *Neuroscience: Exploring the Brain* (4th Edition). Wolters Kluwer, 2020.
2. **Shepherd, G.M.** *Neurobiology* (2nd Edition). Oxford University Press, 2019.
3. **Nicholls, J.G., Martin, A.R., Fuchs, P.A., & Brown, D.A.** *From Neuron to Brain* (5th Edition). Sinauer Associates, 2018.
4. **Guyton, A.C. & Hall, J.E.** *Textbook of Medical Physiology* (14th Edition). Elsevier, 2021.
5. **Snell, R.S.** *Clinical Neuroanatomy* (8th Edition). Wolters Kluwer, 2019.

Journals / Magazines / Govt. Reports / Industry Trends:

- *Nature Neuroscience*
- *Neuron*
- *Journal of Neuroscience*
- *Neuroscience*
- *Trends in Neurosciences*
- Reports from **NIH, WHO, and Society for Neuroscience (SfN)**

Swayam / MOOCs / NPTEL:

1. **Fundamentals of Neuroscience** – Harvard University (edX)
2. **Medical Neuroscience** – Duke University (Coursera)
3. **Neurobiology** – NPTEL (IITs / IISc)

Amrita D. shivani Dinesh Manoj Kumar Jyoti Bhat Nandini Reddy Akumaz

Annexure 2

Human Anatomy and Physiology (IMSBT-205)

Details of course: -

Course Title	Course Structure			Pre-Requisite
Human Anatomy and Physiology (IMSBT-205)	L	T	P	
	3	1	0	NIL

Course Objective: The objective is to provide a comprehensive understanding of the structure and function of the human body at various levels from cells to organ systems.

Course Outcome:

1.	Understanding of Human Anatomy and Physiology: Cell cellular structure, physiological systems, and their functions in the human body.
2.	Anatomy and Physiology Proficiency: Master major systems including cardiovascular, nervous, Musculo-skeletal, respiratory, gastro-urinal, and integumentary systems.
3.	Physiological Concepts Application: Apply concepts to nervous control, respiratory and temperature regulation, optics of vision, and mechanisms of hearing.
4.	Anatomy-Physiology Integration: Integrate knowledge to understand interactions among systems maintaining homeostasis and overall health.
5.	Critical Analysis of Physiological Mechanisms: Analyse complex processes like vision, hearing, and temperature regulation, considering neurophysiological basis and clinical implications.

S. No.	Content	Contact Hours
Unit 1	Introduction: Structure and function of cell and cellular components - Cell membrane, Cell transport systems, Cell, Tissue and Organs	05
Unit 2	Anatomy and Physiology of Nervous, Sensory System and Neuroendocrine system; Structure of Neurons, Neurotransmitter, Gross neuroanatomy of the brain and spinal cord, Resting Potential, Action Potentials, Synaptic Potential, IPSP, EPSP, Receptor Potentials, Neuro control mechanisms. Structure of cerebrum and function of different area of cerebral cortex, Brain Mapping, Limbic System -memory and cognition. Sensory system- Structure and Function of Ear, Hearing, Taste, smell, Eye; Anatomy of Eye, Mechanism of Vision, Focusing Problems, Hyper myopia, Presbyopia, Myopia. Endocrine system- Introduction to Endocrinology and Endocrine Glands, Pituitary Glands, Thyroid Gland, Parathyroid, Adrenal gland Mechanism of Hormone Action.	12

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Unit 3	Physiology of Cardiovascular system, Blood Circulation and Lymphatic System- Structure of Blood, Blood corpuscles, RBC, WBC and Platelets functions, Blood coagulation mechanism, Haemostasis and Blood groups. Cardiovascular System- Anatomy of heart, Cardiac Cycle, Generation and Conduction of Cardiac Impulse, ECG – Its principle and significance, PQRST wave pattern, ECG Leads, Blood pressure, Vectorial Analysis of Normal Heart. Lymphatic System Anatomy and Physiology of lymphatic system, lymph, lymphatic vessels, lymph nodes, Primary and Secondary Lymphoid organs, Lymphatic Cells, Immunity and its types, Antibodies and Vaccines.	10
Unit 4	Musculo-Skeletal and Respiratory System; Introduction to Muscle Physiology, Structure of Actin and Myosin Filaments, Mechanism of Muscle Contraction in Skeletal Muscle, Tetany, EMG. Structure, function and classification of Bones, Skull, Vertebral Column, Ribs, Bones of Lower and Upper Extremity, Composition and Microscopic anatomy of Bone. Respiratory System Structure and Functions of Lungs, Mechanism of Breathing, Alveolar ventilation, Transport of gases, exchange of gases.	10
Unit 5	Digestive and Urinary System: Structure of Stomach and intestine, Digestion of food in different parts of alimentary canal, Absorption and Assimilation, Digestive glands and Hormones. Excretory system – Anatomy and Functions of Kidneys, Nephron: Structure and Functions: Glomerular Filtration, Tubular Reabsorption and Secretion, Autoregulation of GFR.	8
	Total	45

Books:

S. No.	Name of Book/Author/Publisher
1.	Arthur.C. Guyton – Textbook of Medical Physiology – Prism Book (p) Ltd. 1996.
2.	CL.Ghai – A textbook of Practical Physiology – 5th Ed Jaypee Medical Publishers, 2003
3.	Sarada Subramanyam, K. Madhavan Kutty and H.D. Singh – Text book of human Physiology – S. Chand & Company, 1996
4.	Human Physiology By CC Chatterjee VOL. 1 and VOL. 2

H. Ghai

*Sumit
8/16/26*

MB @ I

ANNEXURE III

DEPARTMENT OF BIOTECHNOLOGY
DELHI TECHNOLOGICAL UNIVERSITY: DELHI
 Established under Govt. of Delhi Act 6 of
 2009 Shahbad Daulatpur, Bawana Road,
 Delhi-110042

B.Tech (IKS) Syllabus**B. Tech (VII Semester)****Indian Knowledge System in Biotechnology**

Details of course: -

Course Title	Course Structure			Pre-Requisite
	L	T	P	
Indian Knowledge System in Biotechnology	2	0	0	Nil

Course Objectives

1. To introduce the principles of Indian Knowledge System (IKS) and their relevance to modern biotechnology.
2. To explore traditional Indian practices in medicine, food, and bioresource management for scientific understanding and innovation.

Course Outcomes

1. Explain the basic concepts and significance of Indian Knowledge Systems.
2. Describe traditional Indian medicinal systems and their biotechnological applications.
3. Analyze indigenous food biotechnology practices and their benefits.
4. Recognize the contributions of ancient Indian biomedical knowledge.
5. Evaluate ethical and intellectual property issues related to traditional knowledge.

S. No.	Content	Contact Hours
Unit 1	Foundations to Indian Knowledge System (IKS) Definition, Concept and Scope of IKS, Historical development of science and technology in ancient India	5
Unit 2	Traditional Medicine and Medicinal Plant Biotechnology Ayurveda, Siddha, and Unani systems, Medicinal plant, metabolite production, Role of Ayurgenomics in personalized medicine.	5
Unit 3	Traditional Food Biotechnology in India: Indigenous fermented foods and beverages	5
Unit 4	Traditional Medical Biotechnology in India- Traditional knowledge of Biomedical Science of India	5

Unit 5	Ethics, IPR and Case Studies Ethics in biotechnology vs. IKS perspective	5
	Total	25

Books:

S.No.	Name of Book/Author/Publisher
1.	Introduction to Indian Knowledge System – B. Mahadevan (AICTE), 2022
2.	Biotechnology of Medicinal Plants – A.K. Chopra
3.	Indian Medicinal Plants – K.R. Kirtikar and B.D. Basu
4.	Charaka Samhita (selected portions)
5.	Fermented Foods and Beverages of the World – Jyoti Prakash Tamang
6.	Biotechnology and Bioethics – R. Saravanamuthu
7.	CSIR-TKDL Portal
8.	Ayurgenomics – C.K. Katiyar et al.

LIST OF PARTNER INSTITUTIONS**FLAGSHIP TIER 1 PARTNER TARGETS**

University	Country	QS World Ranking 2025
Technical University of Munich (TUM)	Germany	37
Sorbonne University	France	59
University College Dublin (UCD)	Ireland	181
Technical University of Dresden (TU Dresden)	Germany	194

These four elite, research-intensive universities anchor DTU's outreach. Each holds a valid ECHE and offers strong alignment across DTU's academic and research themes.

TIER 2 PARTNERS — GERMANY & DENMARK

University	Country	QS '25
TU Chemnitz	Germany	601–650
University of Lübeck	Germany	801–1000
University of Hamburg	Germany	251–300
TU Ilmenau	Germany	801–1000
Deggendorf Institute of Technology	Germany	1001+
University of Paderborn	Germany	701–750
TU Dortmund University	Germany	601–650
University of Stuttgart	Germany	343
RWTH Aachen University	Germany	106
FAU Erlangen-Nürnberg	Germany	266

Aalborg University	Denmark	352
Technical University of Denmark (DTU)	Denmark	188
Roskilde University	Denmark	801–1000
IT University of Copenhagen	Denmark	801–1000
University of Southern Denmark	Denmark	601–650

TIER 2 PARTNERS — FRANCE & IRELAND

University	Country	QS '25
INSA Lyon	France	651–700
University Claude Bernard Lyon 1	France	501–550
University of Lille	France	601–650
University of Lorraine	France	651–700
University of Rennes	France	651–700
University of Burgundy	France	801–1000
Grenoble INP – UGA	France	551–600
CentraleSupélec (Paris-Saclay)	France	272
Dublin City University (DCU)	Ireland	501–550
University of Limerick (UL)	Ireland	601–650
TU Dublin	Ireland	801–1000
Munster Technological University (MTU)	Ireland	1001+
University College Cork (UCC)	Ireland	361
University of Galway	Ireland	441

TIER 2 PARTNERS — POLAND, CZECHIA, SPAIN, GREECE & SWEDEN

University	Country	QS '25
Poznań University of Technology	Poland	801–1000
Gdańsk University of Technology	Poland	801–1000
Lodz University of Technology	Poland	801–1000
Wrocław Univ. of Science & Technology	Poland	801–1000
VSB – Technical University of Ostrava	Czechia	801–1000
Masaryk University	Czechia	651–700
University of West Bohemia	Czechia	1001+
Technical University of Liberec	Czechia	1001+
Czech Technical University in Prague	Czechia	601–650
University of Alcalá	Spain	801–1000
University of Seville	Spain	601–650
University of the Basque Country	Spain	551–600
Universitat Politècnica de València	Spain	488
University of Western Macedonia	Greece	1001+
Technical University of Crete	Greece	801–1000
University of Piraeus	Greece	1001+
Aristotle University of Thessaloniki	Greece	471
Halmstad University	Sweden	1001+
Linköping University	Sweden	383
Chalmers University of Technology	Sweden	241
Lund University	Sweden	88

C/26



Department of Geospatial Science and Technology
Delhi Technological University
 Shahbad Daulatpur, Bawana Road, Delhi – 110042

F.No.DTU/DGST/

Dated: - 12.02.2026

MINUTES OF MEETING

1. A Committee as under has been constituted vide Office Order No. DTU/Reg/Committees/2023-24/282 dated 09.01.2026 to finalize the Recruitment Rules (RRs) and Recruitment Guidelines for the Department of Geospatial Science and Technology (DGST) -

- | | |
|---|--------------------|
| (a) Dean Academic (UG) | - Chairperson |
| (b) Dean Academic (PG) | - Member |
| (c) Dean (R&D) | - Member |
| (d) Associate Dean (P&R) | - Member |
| (e) Dr. S. K. Ghosh, Visiting Faculty | - Member |
| (f) Dr. Debapriya Dutta, Visiting Faculty | - Member |
| (g) Dr. K C Tiwari, HoD DGST | - Member Secretary |

2. The Committee held its deliberations on 22.01.2026, 28.01.2026, 03.02.2026 and 11.02.2026. Copy of attendance sheet for each of the meetings is enclosed. The recommendations of the Committee arrived after detailed deliberations are summarized in succeeding paragraphs.

3. **Separate Recruitment Rules (RRs) for Geospatial Science and Geospatial Technology** - The Department is running both the Geospatial Science and the Geospatial Technology Programs. Since the vacancy creation is based on the strength of the students in respective Geospatial Science or Geospatial Technology programs, the recruitment for faculty too is recommended to be done separately for Geospatial Science or Geospatial Technology from candidates with commensurate Science or Technology qualifications. Hence two separate RRs have been prepared as under -

(i) **Annexure I : Recruitment rules (RRs) for recruitment of Assistant Professor for Geospatial Technology programs.** Appropriate provisions of amendments, if any, issued from time to time by the Govt/DTU will be suitably incorporated in these RRs.

(ii) **Annexure II : Recruitment rules (RRs) for recruitment of Assistant Professor for Geospatial Sciences programs.** Appropriate provisions of amendments, if any, issued from time to time by the Govt/DTU will be suitably incorporated in these RRs.

4. **Guidelines for Recruitment** - Detailed Guidelines have been developed and are enclosed. Important recommendations mentioned in the guidelines are summarized below -

(a) **Grouping of Relevant Branches for Recruitment** - Geospatial Science and Technology is a multidisciplinary domain and includes a large number of branches. Hence,

various relevant branches of Geospatial Sciences and Geospatial Technologies have been appropriately grouped as given in Table - 1 of the guidelines so that a balanced recruitment can be done.

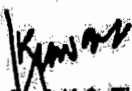
(b) **Screening of Candidates** - The screening of candidates shall be in accordance with the procedure laid down as per BOM Approval vide Agenda 54.18 enclosed at Annexure - III and amendments thereof, if any.

(c) **Sanctioned Posts Available on Temporary Transfer/ Creation of Sanctioned Posts** - Currently, 08 sanctioned posts are available by temporary transfer from other Departments (refer Annexure IV) and a file for creation of sanctioned posts is in progress with Govt as per AICTE/UGC/ GOI norms. Hence the guidelines beyond this point have been presented in two parts in accordance with the status of availability of sanctioned posts.

(d) **Recruitment With 08 Sanctioned Posts Available By Temporary Transfer From Other Departments** - Since currently, only 08 sanctioned posts are available by temporary transfer from other Departments which is less than the desired number of posts, in order to maintain focus on both the Geospatial Technology and Geospatial Science based on the current programs being offered, it has been proposed to allot 5 - 6 posts to the Geospatial Technology programs and 2 - 3 posts to the Geospatial Science programs (refer Table - 2 of guidelines)

(e) **Recommended distribution of available 08 Posts amongst relevant Geospatial Technology and Geospatial Science branch groups** - for the purpose of final selection after screening, the tentative distribution of the available sanctioned posts mentioned at Para 4 (d) of guidelines into various relevant Geospatial Technology and Geospatial Science branch groups is given in Table - 3 of the guidelines.

(f) **Recommended weightage for distribution of Posts likely to be available after creation of sanctioned posts amongst relevant Geospatial Technology and Geospatial Science branch groups** - for the purpose of final selection after screening, the tentative weightage for distribution of posts likely to be available after creation of sanctioned posts into various relevant Geospatial Technology and Geospatial Science branch groups is given in Table - 4 of the guidelines.



Prof. K.C. Tiwari
HoD DGST
Member-Secretary

Dr. S. K. Ghosh
Visiting Faculty
Member



Debapriya Dutta
Visiting Faculty
Member



Prof. Roli Purwar
Associate Dean (P&R)
Member



Prof. Girish Kumar
Dean (R&D)
Member



Prof. Rinku Sharma
Dean Academic (PG)
Member



Prof. Rajeshwari Pandey
Dean Academic (UG)
Chairperson



DELHI TECHNOLOGICAL UNIVERSITY
SHAHBAD DAULATPUR, BAWANA ROAD, DELHI-110 042

**RECRUITMENT GUIDELINES AND RECRUITMENT RULES (RRs) FOR RECRUITMENT OF
FACULTY IN THE DEPARTMENT OF GEOSPATIAL SCIENCE AND TECHNOLOGY**

Introduction

1. Post 51st BOM notification vide Agenda Item No 51.16, a new interdisciplinary Department of Science and Technology (DGST) has been established at DTU. Accordingly, in pursuance with various actions related to establishment of Department, these Guidelines are being issued for conduct of smooth recruitment and a balanced development of Geospatial Science and Geospatial Technology. Geospatial Science & Technology is inherently multidisciplinary and hence faculty recruitment must therefore ensure balanced representation from, Engineering (Technology, Systems, Applications), Science (Theory, Earth Systems, Mathematics, Physics etc), other Interdisciplinary streams and Industry applications/requirements. Following paragraphs lay down the guidelines for conduct of recruitment in the Department of Science and Technology (DGST) and are recommended to be referred to be used during the screening and selection of faculty in the Department.

Recruitment Rules (RRs) for Geospatial Science and Geospatial Technology

2. The Department is running both the Science and the Technology Programs. Since the vacancy creation is based on the strength of the students in respective Geospatial Science and Geospatial Technology programs, the recruitment too should be done separately for Geospatial Science and Geospatial Technology from candidates with commensurate Science and Technology qualifications. Hence, two separate RRs have been prepared as under -

(i) **Annexure I** : Recruitment rules (RRs) for recruitment of Assistant Professor for Geospatial Technology programs. Appropriate provisions of amendments, if any, issued from time to time by the Govt/DTU will be suitably incorporated in these RRs.

(ii) **Annexure II** : Recruitment rules (RRs) for recruitment of Assistant Professor for Geospatial Sciences programs. Appropriate provisions of amendments, if any, issued from time to time by the Govt/DTU will be suitably incorporated in these RRs.

Grouping of Relevant Branches for Recruitment

3. Geospatial Science and Technology is a multidisciplinary domain and includes a large number of branches. Hence, various relevant branches of Geospatial Sciences and Geospatial Technologies have been appropriately grouped as given in Table - 1 so that a balanced recruitment can be done -

TABLE 1 – GROUPING OF RELEVANT GEOSPATIAL TECHNOLOGY AND GEOSPATIAL SCIENCE BRANCHES			
GEOSPATIAL TECHNOLOGIES		GEOSPATIAL SCIENCES	
Gp No	Relevant Geospatial Technology PG Branch Groups	Gp No	Relevant Geospatial Science PG Branch Groups
T-I	Geospatial Technologies -Geoinformatics, Geospatial Technology, Remote Sensing,	S-I	Geospatial Sciences - Geoinformatics, Geospatial Science, Remote Sensing,

	Geographical Information System (GIS), Cartography, Photogrammetry, Global Navigation Satellite Systems (GNSS) and Geodesy.		Geographical Information System (GIS), Cartography, Photogrammetry, Global Navigation Satellite Systems (GNSS) and Geodesy.
T-II	Electronics and Communication - Electronics, Communication, Navigation and Signal Processing, Instrumentation Engineering, Sensor Technology, Satellite Communication, Communication Engineering, RF & Microwave Engineering, (Earth Observation / navigation), Global Navigation Satellite Systems (GNSS) / Navigation Systems, Electro-Optics, Digital Signal Processing.	S-II	Physics, Mathematics and Statistics - Physics, Mathematics, Statistics, Spatial Physical Sciences, Spatial Mathematical Sciences 3D spatial memory and thinking.
T-III	Computers and IT - Computers, IT, Data Science, AI/ML, Artificial Intelligence, Machine Learning, GeoAI, Digital Image Processing (DIP).	S-III	Geodesy and Navigation - Navigational Sciences, Geodesy.
T-IV	Mechanical and Space Technologies - Flight Mechanics, Aerodynamics (UAV / Earth observation platform related only), Thermal and Liquid Propulsion Systems for Launch Vehicles / Space Platforms, Satellite Engineering, Aerospace Engineering (space / Earth observation platform systems), Space Situational Awareness (Space Debris, Space Weather, Orbital Dynamics).	S-IV	Space Sciences - Planetary Sciences, Astronomy & Astrophysics, Space Health, Human Spaceflight, Bioastronautics, Space Medicine (with spatial / environmental / mission-planning related).
T-V	Defence Security and Intelligence - Defence, Security, Intelligence C4ISR, surveillance, navigation, terrain analysis with geospatial / Earth Observation focus).	S-V	Earth Systems - Earth Systems Modelling, Earth System Science, Geosciences, Geology.
T-VI	Advanced Surveying and Applications - Drone and other Advanced Surveying, Water Resources & Hydraulics, Geotechnical Engineering, Transportation Systems, Irrigation Engineering.	S-VI	Geospatial Science Applications - Atmospheric Sciences, Meteorology, Climate Science, Oceanography, Coastal Sciences, Environmental Science, Health Sciences, Spatial Epidemiology / Environmental Health.
		S-VII	Space Policies - Space Policy, Space Law & Space Management (with geospatial / Earth observation / navigation related), Human Spaceflight / Bioastronautics, or any other equivalent science disciplines with geospatial related).

Screening of Candidates

4. The screening of candidates shall be in accordance with the procedure laid down as per BOM Approval vide Agenda 54.18 enclosed at Annexure – III and amendments thereof, if any.

Sanctioned Posts Available by Temporary Transfer/ Creation of Sanctioned Posts

5. Currently, the state of posts in the newly established Department of Geospatial Science and Technology is as under –

- (i) Sanctioned Posts Available by transfer from other Departments– 08 Posts, (Copy of DTU Notification at Annexure IV).
- (ii) A file for creation of sanctioned posts is in progress with Govt as per AICTE/UGC/GOI norms

In view, hereafter, these guidelines are presented in two parts in accordance with the above mentioned vacancy status

RECRUITMENT WITH 08 SANCTIONED POSTS AVAILABLE BY TEMPORARY TRANSFER FROM OTHER DEPARTMENTS

6. Currently, only 08 sanctioned posts are available by temporary transfer from other Departments. Therefore, in order to maintain focus on both the Geospatial Technology and Geospatial Science based on the current programs being offered, it is proposed that the available 08 sanctioned posts may be split as given in Table - 2 -

TABLE 2 – RECOMMENDED DISTRIBUTION OF AVAILABLE 08 POSTS BETWEEN GEOSPATIAL TECHNOLOGY AND GEOSPATIAL SCIENCE		
Stream	Recommended Share	Numbers
Geospatial Technology	70 – 75%	5-6
Geospatial Science	30 – 25 %	3 -2

7. Further for the purpose of final selection after screening, the tentative distribution of these posts into various relevant Geospatial Technology and Geospatial Science branch groups will be as given in Table – 3

TABLE 3 – RECOMMENDED DISTRIBUTION OF AVAILABLE 08 POSTS AMONGST RELEVANT GEOSPATIAL TECHNOLOGY AND GEOSPATIAL SCIENCE BRANCH GROUPS					
GEOSPATIAL TECHNOLOGY			GEOSPATIAL SCIENCE		
Gp No	Relevant Geospatial Technology PG Branch Groups	Distr- bution	Gp No	Relevant Geospatial Science PG Branch Groups	Distr- bution
T-I	Geospatial Technologies	2/1	S-I	Geospatial Sciences	Nil
T-II	Electronics, Communication Navigation and Signal Processing -	1/2	S-II	Physics and Mathematics	Physics – 01 Maths - 01
T-III	Computers, IT, Data Science, AI/ML and DIP	1	S-III	Geodesy and Navigation	Nil

T-IV	Mechanical and Space Technologies	1	S-IV	Space Sciences	Nil
T-V	Defence Security and Intelligence	Nil/ 1	S-V	Earth Systems Modelling	Nil
T-VI	Advanced Surveying and Applications	1/Nil	S-VI	Geospatial Science Applications	Nil
			S-VII	Space Polices	Nil
PS – (i) Refer to Table -1 at Para 3 for more details of the grouping of relevant Geospatial Technology and Geospatial Science branches (ii) In case a more suitable candidate is available from S-I or S-III to S-VII groups, then upto a maximum of 01 more vacancy be given to Geospatial Science by correspondingly restricting the Geospatial Technology vacancy to only 05					

RECRUITMENT WHEN SANCTIONED POSTS AVAILABLE

8. The case for creation of posts is being processed as per the SFR (student – Faculty ratio) based on AICTE /UGC/GOI norms for sanctioned posts in UG /PG programs. The distribution of these sanctioned posts between Geospatial Technology and Geospatial Science shall be strictly as would be approved for respective programs.

9. Further for the purpose of final selection after screening, the tentative weightage (wt in %) for distribution of these posts into various Geospatial Technology and Geospatial Science relevant branch groups shall be as given in Table - 4 –

TABLE 4 – RECOMMENDED WEIGHTAGE FOR DISTRIBUTION OF POSTS LIKELY TO BE AVAILABLE AFTER CREATION OF POSTS AMONGST RELEVANT GEOSPATIAL TECHNOLOGY AND GEOSPATIAL SCIENCE BRANCH GROUPS					
GEOSPATIAL TECHNOLOGY			GEOSPATIAL SCIENCE		
Gp No	Relevant Geospatial Technology PG Branch Groups	Wt %	Gp No	Relevant Geospatial Science PG Branch Groups	Wt %
T-I	Geospatial Technologies	30	S-I	Geospatial Sciences	20
T-II	Electronics, Communication Navigation and Signal Processing -	15	S-II	Physics and Mathematics	15
T-III	Computers, IT, Data Science, AI/ML and DIP	15	S-III	Geodesy and Navigation	15
T-IV	Mechanical and Space Technologies	15	S-IV	Space Sciences	15
T-V	Defence Security and Intelligence	15	S-V	Earth Systems Modelling	15
T-VI	Advanced Surveying and Applications	10	S-VI	Geospatial Science Applications	10
			S-VII	Space Polices	10
PS – Refer to Table -1 at Para 3 for more details of the grouping of relevant Geospatial Technology and Geospatial Science branches					

Disclaimer and Powers to Resolve

10. The Committee recommends that the guidelines given above may be considered as only indicative. The selection committee with the approval of the competent authority may add, delete, insert or modify any of the provisions mentioned above in these guidelines in the overall interest of the Department of Geospatial Science and Technology or for any other administrative reasons/constraints.

Conclusion

11. These guidelines lay down the basic framework which may be referred to while carrying out recruitment in the Department of Geospatial Science and Technology to ensure that the faculty recruited truly represents all the relevant domains of Geospatial Technologies and Geospatial Sciences and meets the multidisciplinary requirements of the Department of Geospatial Science and Technology.

Signed By Members

1. Prof Rolli Purwar, Associate Dean P&R)
2. Prof. Rinku Sharma, Dean PG)
3. Prof. Girish Kumar, Dean R&D)
4. Prof S K Ghosh, Visiting Faculty)
5. Dr Debpriya Dutta, Visiting faculty)
6. Prof. K C Tiwari, HoD DGST)

Chairman

Prof Rajeshwari Pandey, Dean UG

RECRUITMENT RULES FOR ASSISTANT PROFESSORS FOR 'GEOSPATIAL TECHNOLOGY' IN THE DEPARTMENT OF GEOSPATIAL SCIENCE AND TECHNOLOGY (AS PER AICTE NOTIFICATION NO. F. NO. 61- 1/RIFD/7TH CPC/2016-17 DATED 1ST MARCH 2019 AND CLARIFICATIONS ISSUED TIME TO TIME.)

Name of the Post	Essential Qualification and Experience	Relevant Branch/Discipline (UG)	Relevant Branch/Discipline (PG/PhD)
Assistant Professor (Level – 10, Entry Pay 57700/-)	(a) B. E. / B. Tech. and M. E. / M. Tech. in relevant branch with first class or equivalent in any one of the two degrees from a recognized University/ Institution OR (b) Integrated M.Tech. in relevant branch with first class or equivalent from a recognized University / Institution OR (c) (i) First Class or equivalent in B. E. / B. Tech. from a recognised University/ Institution, (ii) GATE Qualified, (iii) PhD from a recognised University/ Institution <i>All of the above in (c) must be in the relevant branch/discipline.</i>	Civil and Infrastructure - Civil Engineering, Construction Technology and Management, Architecture, Marine Engineering, Mining Engineering, Geodesy Electronics & Communication Engineering – Electronics, Electrical, Communication and Instrumentation Engineering Computers & IT - Computer Science and Engineering, Information Technology, Software Engineering, Data Science, Artificial Intelligence & Machine Learning, Cyber security, IoT Robotics and Automation Mechanical , Aerospace and Aeronautics - Mechanical Engineering Aerospace Engineering / Aeronautical Engineering, Space Technology Environmental and Ocean - Environmental Engineering, Coastal / Offshore / Ocean Engineering Agriculture and Energy - Agricultural Engineering, Energy Engineering, Petroleum Engineering	PG /PhD in any of the branches /disciplines of Geospatial Technologies mentioned below at Ser (i) to Ser (xvii) OR PG /PhD in any branch /discipline of technology with PG/ PhD thesis / project / dissertation in any of the branches /disciplines of Geospatial Technologies mentioned below Ser (i) to Ser (xvii) (i) Satellite Launch Vehicles and Systems (ii) Satellite design, sensor technologies, EO Payloads (iii) Geoinformatics, (iv) Earth observation / Optical/ Thermal/ Hyperspectral, Microwave Remote sensing (v) Geographical Information System (GIS)and Web GIS (vi) Cartography, (vii) Surveying & Mapping (viii) Geodesy (ix) Photogrammetry, Digital Image Processing (x) Global Navigation Satellite Systems (GNSS), RF & Microwave (xi) AI/GeoAI (xii) Space and Planetary Technologies (xiii) Astronomy and Astrophysics

			(xiv) Humans Space flight Technologies and sustenance in space (xv) Space situational awareness (xvi) Geospatial and Space Laws Policies and Management (xvii) Any other relevant Geospatial or Space Technology not mentioned here
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Notes:

1. Any minor deviation in the nomenclature of the relevant branches/discipline or degrees as mentioned above may also be considered by the University subject to approval from the competent authority.
2. B.E. / B.Tech. / B.Sc. (Engineering)/ B.S. (4 years) shall be considered as equivalent, wherever applicable.
3. Candidates with AMIE/IETE qualifications in relevant branches/discipline will be treated as equivalent to B.E./ B.Tech. / B.Sc. (Engineering)/B.S. (4 years), if applicable.
4. M.E./M.Tech/M.Sc.(Engineering)/M.S. shall be considered equivalent. Integrated/Dual/Integrated-Dual degrees awarded by recognized universities in the relevant Branch/discipline shall be considered, wherever applicable.
5. The candidature of the applicants fulfilling Clause 7.5 of the AICTE Regulations, 2019 (Notification No. F. No. 61- 1/Rifd/7th Cpc/2016-17 Dated 1st March 2019) may also be considered for the post of Assistant Professor.
6. Degrees awarded by foreign Universities shall be recognized only upon an equivalent certificate from Association of Indian Universities (AIU). The onus of obtaining such equivalence shall rest with applicant.
7. Selection committee, may in cases of exceptional merit, recommend additional increments as per Government rules in case of higher qualifications, experience and academic achievements by the candidates.
8. Persons already in employment in Government Department/ Autonomous Bodies/ Universities under Central/ State Government should apply through proper channel.

9. If a class / division is not awarded, minimum of 60% marks in aggregate shall be considered equivalent to first class/ division. If conversion formula for CGPA to percentage marks is not given/ defined, CGPA will be converted into equivalent marks by multiplying the CGPA by a factor of 10.
10. The screening of applications shall be done as per prescribed guidelines.

**RECRUITMENT RULES FOR ASSISTANT PROFESSORS FOR 'GEOSPATIAL SCIENCE' IN THE
DEPARTMENT OF GEOSPATIAL SCIENCE AND TECHNOLOGY**

Name of the Post	Essential Qualification and Experience	Relevant Branch (UG)	Relevant Branch (PG/PhD)
Assistant Professor (Level – 10, Entry Pay 57700/-)	(a) (i) A Master of Science degree in Relevant Branch with 55% marks (or an equivalent grade in a point-scale wherever the grading system is followed) in relevant Branch/discipline from a Recognized Indian University/ Institution or an equivalent degree from an accredited foreign University/ Institution. OR (a) (i) Integrated Master of Science degree in Relevant Branch/discipline with 55% marks (or an equivalent grade in a point-scale wherever the grading system is followed) in a relevant Branch/discipline from a Recognized Indian University/ Institution or an equivalent degree from an accredited foreign University/ Institution. (b) (ii) The candidate must have cleared the National Eligibility Test (NET) conducted by the UGC or the CSIR, or a similar test in relevant discipline, accredited by the UGC, like SLET/SET or who are or have been awarded a Ph.D. Degree in accordance with the University Grants Commission (Minimum Standards and Procedure for award of M.Phil./Ph.D. Degree) Regulations, 2009 or 2016 and their amendments from time to time as the case may be exempted from NET/SLET/SET.	(i) Mathematics, Statistics (ii) Physics, Electronics, Communication Sciences, Space Sciences, Navigational Sciences, Astrophysics (iii) Geography, Geology, Mineralogy, Earth Science, Geophysics, Geodesy (iv) Computer Science, Data Science (iv) Atmospheric Sciences, Meteorological Sciences, Climate Sciences, Oceanographic Sciences, Environmental Science (v) Chemistry, Material Science (vi) Ecology, Botany, Zoology	<i>PG /PhD in any of the branches /disciplines of Geospatial Sciences mentioned below at Ser (i) to Ser (xvii)</i> OR <i>PG /PhD in any branch /discipline of science with PG/ PhD thesis / project / dissertation in any of the branches /disciplines of Geospatial Sciences mentioned below Ser (i) to Ser (xvii)</i> (i) Geoinformatics (ii) Earth observation / Optical/ Thermal/ Hyperspectral, Microwave Remote sensing (iii) Geographical Information Sciences (GIS) and Web GIS (iv) Cartography, (v) Photogrammetry (vi) Geodesy (vii) Navigational Sciences (viii) AI/GeoAI (ix) Space and Planetary Sciences (x) Astronomy and Astrophysics (xi) Bioastronautics , Space Health and Medicines (xii) Space biology (xiii) Humans Space flight Sciences and sustenance in space (xiv) Space situational awareness (xv) Geospatial and Space Laws Policies and Management (xvi) Geospatial applications in Atmospheric Sciences, Meteorology, Climate Science, Agricultural sciences, Geographical sciences, Oceanography, Coastal Sciences, Environmental Science, Health Sciences, Spatial

			Epidemiology, Environmental Health etc (xvii) Any other relevant Geospatial or Space Science not mentioned here
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Notes:

1. Any minor deviation in the nomenclature of the relevant branches/discipline or degrees as mentioned above may also be considered by the University subject to approval from the competent authority.
2. B.E. / B.Tech. / B.Sc. (Engineering)/ B.S. (4 years) shall be considered as equivalent, wherever applicable.
3. Candidates with AMIE/IETE qualifications in relevant branches/discipline will be treated as equivalent to B.E./ B.Tech. / B.Sc. (Engineering)/B.S. (4 years), if applicable.
4. M.E./M.Tech/M.Sc.(Engineering)/M.S. shall be considered equivalent. Integrated/Dual/Integrated-Dual degrees awarded by recognized universities in the relevant Branch/discipline shall be considered, wherever applicable.
5. The candidature of the applicants fulfilling Clause 7.5 of the AICTE Regulations, 2019 (Notification No. F. No. 61- 1/Rifd/7th Cpc/2016-17 Dated 1st March 2019) may also be considered for the post of Assistant Professor.
6. Degrees awarded by foreign Universities shall be recognized only upon an equivalent certificate from Association of Indian Universities (AIU). The onus of obtaining such equivalence shall rest with applicant.
7. Selection committee, may in cases of exceptional merit, recommend additional increments as per Government rules in case of higher qualifications, experience and academic achievements by the candidates.
8. Persons already in employment in Government Department/ Autonomous Bodies/ Universities under Central/ State Government should apply through proper channel.
9. If a class / division is not awarded, minimum of 60% marks in aggregate shall be considered equivalent to first class/ division. If conversion formula for CGPA to percentage marks is not given/ defined, CGPA will be converted into equivalent marks by multiplying the CGPA by a factor of 10.
10. The screening of applications shall be done as per prescribed guidelines.
11. For the candidates applying against the eligibility criterion (a) and (b):
A relaxation of 5% shall be allowed at the Bachelor's as well as at the Master's level for the candidates belonging to Scheduled Caste / Scheduled Tribe/ Other Backward Classes (OBC) (Non-creamy Layer) / Differently-abled : (a) Blindness and low vision; (b) Deaf and Hard of Hearing; (c)

Locomotor disability including cerebral palsy, leprosy cured, dwarfism, acid-attack victims and muscular dystrophy; (d) Autism, intellectual disability, specific learning disability and mental illness; (e) Multiple disabilities from amongst persons under: (a) to (d) including deaf-blindness) for the purpose of eligibility and assessing good academic record for direct recruitment. The eligibility marks of 55% marks (or an equivalent grade in a point scale wherever the grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible, based only on the qualifying marks without including any grace mark procedure.



Department of Geospatial Science and Technology
Delhi Technological University
Shahbad Daulatpur, Bawana Road, Delhi – 110042

F.No.DTU/DGST/MoA – Med Board

Dated: - 18.05.2026

MINUTES OF MEETING

1. Post constitution of a Committee vide DTU Office Order No DTU/Reg/Committees/2023-24/360 dated 10.04.26, Online /Offline meetings were convened on 28th Apr 26 (online) at 12:00 PM, 29th April 26 (online) at 12:00 PM, 09th May 26 (offline) at 2.30 PM and 18th May 2026 (Offline) at 2.30 PM regarding the request of Indian Army (IA) for lateral induction of its medically boarded out Cadets into various programs at DTU and to examine various pertinent issues such as, mid-way admissions, AICTE/UGC/NEP provisions, admissible medical categories, and development of SOP for the same. The attendance on different dates was as under –

Attendance

- | | |
|---|-----------------------------------|
| (a) Prof. Girish Kumar, Dean (R&D) | - Chairperson |
| (b) Prof. Rajeshwari Pandey, Dean (UG) | - Member |
| (c) Prof. Rajeev Chaudhary,
(Chairperson (B.Tech Admission Committee)) | - Member |
| (d) Prof. P.V. Ram Kumar, Mech. Engg. Deptt. | - Member |
| (e) Sh. Sandeep Garg, Empanelled Lawyer | - Member |
| (f) Col Vivek Mallick, Member from MI Dte., IA | - Special Invitee |
| (g) Prof P A Ramakrishna | - external expert from IIT Madras |
| (h) Prof K C Tiwari | - Member Secretary |

Points /Issues Discussed

2. Prof. K. C. Tiwari informed that Delhi Technological University has signed a Memorandum of Understanding (MoU) with the Indian Army. This MoU, approved at the highest level, allows the signing of agreements between various formations of the Army and DTU as per their requirements on matters related to academics and research, and as per the scope of the MoU.

3. It was further informed that the Indian Army has now approached DTU for signing an agreement through a Memorandum of Agreement (MoA) on a few subject/areas. In this connection, a meeting was held on 19 Feb 2026 to discuss the proposed MoA. In that meeting, it was decided that since the subject of lateral entry of medically boarded cadets demands a detailed scrutiny, hence a separate committee be constituted and accordingly, this Committee has been constituted

4. Col. Vivek Malik, Member from MI Dte, IA - special invitee informed the following -

- (a) Col. Vivek Malik gave a brief of the requirement. He explained that, despite the best efforts of the Indian Army, there are instances when a Cadet has to be medically boarded out. He informed that all such decisions are taken at the highest level and are very painful, but need to be taken in the organizational interest. The Indian Army has approached Delhi Technological University with a request to support these cadets, who not only find their dreams of serving the nation shattered, but their parents, family members, friends, school and college teachers also feel shattered.

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(b) Col. Vivek Malik presented year-wise data of medically boarded-out cadets, which is included in Annexure 1 enclosed. From this data, it emerged that :

(aa) Most of the cadets get boarded out during the first year. However, the maximum number of such cadets is not more than 2-3 per technical branch.

(ab) A few cadets also get medically boarded out in the 2nd, 3rd and 4th year, but the numbers are significantly less

(c) Col. Vivek Mallick also informed that currently the degree is awarded by Jawaharlal Nehru University (JNU) and he also provided details of credit distribution across different semesters which matches well with that of DTU. The details are enclosed as Annexure 1.

5. Based on the information provided by the Army, a query was raised, why doesn't Army approach Jawaharlal Nehru University (JNU) itself for lateral entry, as it also offers B.Tech. Programs. It was clarified by Col. Vivek Malik that they are approaching all institutes/universities with whom they have signed MoUs. However, some universities, such as JNU, may not have all branches, such as Civil Engineering and besides, once medically boarded out, the Cadet and the family look for the nearest institute or university.

6. Another query raised regarding the possibility of similar requests are received from other Paramilitary Forces (PMFs). It was suggested that this issue may be considered by the Academic Council (AC) and the Board of Management (BoM).

7. Further, in the third meeting held online on 9th May 2026 at 10:30 AM onwards, Prof. P.A. Ramakrishna joined online as an external expert from IIT Madras. He informed the following about their proposal that was processed at IIT Madras:-

- (a) IIT Madras had processed the request of Indian Army for lateral entry of medically boarded out cadets, but it could not go through because of the difference in admission criteria, i.e., IIT Madras offers admission based on JEE (advanced) while the Indian Army offers admission to its technical graduates based on JEE (Mains).
- (b) No fixed number of supernumerary seats was set; seat allocation was proposed to be handled on case to case basis.
- (c) The Army was expected to recommend candidates for consideration, the institute would have processed and examined those cases and approved if they met requirements.
- (d) The Institute was to carry out course-to-course equivalence mapping to account for credit already completed by medically boarded-out cadets and define what remaining courses they needed to complete.
- (e) It was proposed to sign an MOU with the Indian Army to formalise the arrangement and to address the legal/regulatory requirements.

8. During the discussion, it was pointed out by Col. Vivek Malik that a total of 30 credits in a technical course is towards basic military training (BMP), but it is towards 7-8th semester, hence, it does not affect the requirements of any university, in the first 4th to 6th semesters. Prof. P.A. Ramakrishna suggested this 30 credits may be adjusted as an Industrial training.

9. Based on the information made available, following points emerged:-

- (a) The request from the Army is not a case of a fresh admission rather it is a case of transfer from one Institute/Academy to DTU on extreme compassionate medical grounds wherein the Cadet/candidate/student has to be medically boarded out after due examination at the highest levels in the Army.

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- (b) Lateral entry may be required in the 1st, 2nd, 3rd and 4th years.
- (c) The current branches of interest to IA are Civil Engineering, IT & Telecomn, Electronics and Mechanical
- (d) From the data shared by IA, the maximum requirement in any given year has not been more than 02 Cadets

10. Based on the foregoing discussion, following possibilities /options were also discussed –

- (a) Creation of a maximum of 01 "supernumerary" seats *each branch of* in Civil Engineering, Electronics and Mechanical (IT & Telecomn was ignored because there is no such branch in DTU) per academic year with the approval of the Academic Council (AC) and Board of Management (BoM) at DTU.
- (b) The procedure of admission may be as follows. Indian Army to approach the DTU with details of medically boarded out cadets with complete details including medical category, syllabus, subject-wise credits earned by the cadets and any other detail that may be prescribed by DTU. As and when IA recommends /requests for lateral transfer of its cadets in any year, DTU may constitute an Equivalence Committee comprising:
 - i. Dean (UG) – Chairperson
 - ii. Concerned Heads of Department - Members
 - iii. Two faculty members from allied departments - Member
 - iv. One Member from Admission Committee Member
 - v. Additional Subject experts, if required – Special Invitee
- (c) The Committee will carry out examination of the recommendations received from the Indian Army, verify academic and medical documents, conduct course-to-course equivalence mapping, evaluate curriculum compatibility, assess laboratory and practical equivalence, determine accepted credits, identify bridge/deficiency courses, recommend semester placement, recommend attendance or prerequisite relaxations, if permissible, recommend conditions of admission, and submit recommendations to competent authorities.
- (d) Besides, DTU may evolve its "Migration Policy" and Multiple Entry and Exit policy under NEP 2000. In case the number of Cadets in a particular branch in any given year exceeds the maximum number of 02 approved supernumerary seats, the Cadet may be advised to apply under "Migration Policy" and Multiple Entry and Exit policy.
- (e) The implementation should be through a legally acceptable MOU/ MOA.

Recommendations

11. Following recommendations are made –

- (a) **Seat Creation** - Creation of a maximum of 01 "supernumerary" seat each in Civil Engineering, Electronics and Mechanical branches (i.e a total of 03) per academic year with following conditions for its utilisation –
 - (i) . 01 Supernumerary seat per branch per academic year will be used to offer admission to one of the medically boarded out Cadets from the 1st or 2nd or 3rd or 4th year. However, first priority (P1) will be given to Cadets seeking admission in 1st year, second priority (P2) will be given to Cadets seeking admission in 2nd year, third priority (P3) will be given to Cadets seeking admission in 3rd year and fourth priority (P4) will be given to the Cadets seeking admission in 4th year.

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(ii) In any academic year, in case there are more than one applicants/Cadets in any one branch and seats are available in other branches, then the seat may be transferred to the branch having more than one applicants/Cadets. However, maximum intake in any branch (across all years) shall not exceed 02 Cadets in any one academic year.

(iii) Keeping the above points in mind, IA will provide three names, (i) Nominated (ii) Reserve 1 (ii) Reserve 2 in every academic year, against each vacancy (i.e 01 seat each in Civil Engineering, Electronics and Mechanical branches) for final scrutiny and selection by DTU.

(b) **Enforcement** – This policy for lateral transfer / admission of medically boarded out cadets to be enforced as under -

- (i) The policy will be enforced upon AC and BOM approval and in accordance with the MoA.
- (ii) The policy shall remain effective as agreed upon in MoA
- (iii) The policy will be reviewed from time to time in accordance with the changes in regulations received from regulatory bodies.
- (iv) The policy may be terminated by giving a notice of one month in accordance with the provisions of MoU between DTU and IA, should there be any reason to do so

(c) A SOP (standard operating procedure) for implementation of the above guidelines has been evolved and is enclosed. It may be reviewed by AC and BOM, and adopted.

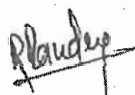
(d) Besides, DTU may evolve its "Migration Policy" and Multiple Entry and Exit policy under NEP 2000. In case the number of Cadets in a particular branch in any given year exceed the maximum number of approved supernumerary seats, the Cadets may be advised to apply under "Migration Policy" and Multiple Entry and Exit policy, if eligible under the policy.



Prof. K.C. Tiwari

HoD DGST

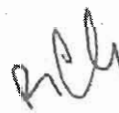
Member Secretary



Prof. Rajeshwari Pandey

Dean (UG)

Member



Prof. Rajeev Chaudhary

Chairperson, B.Tech
Admission Committee

Member



Prof. P.V. Ram Kumar

Mech. Engineering Dept

Member

Consent received
on mail

Sh. Sandeep Garg

Empanelled Lawyer

Member



Col. Vivek Malik

Member from MI Dte, I.A.

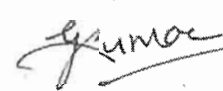
Special Invitee

Email Confirmation
received

Prof. P A Ramakrishna

IIT Madras

External Expert



Prof. Girish Kumar

Dean (R&D)

Chairperson

DRAFT STANDARD OPERATING PROCEDURE (SOP) FOR LATERAL TRANSFER / ADMISSION OF
MEDICALLY BOARDED-OUT CADETS INTO UNDERGRADUATE B.TECH PROGRAMMES AT DELHI
TECHNOLOGICAL UNIVERSITY (DTU)

References - Regulatory / Legal / Policy Documents

- (i) National Education Policy (NEP) 2020
- (ii) University Grants Commission (UGC) Guidelines
- (iii) UGC Credit Framework for Undergraduate Programmes
- (iv) Academic Bank of Credits (ABC)
- (v) National Credit Framework (NCrF)
- (vi) AICTE Approval Process Handbook
- (vii) DTU Act, Statutes, Ordinances and Academic Regulations
- (viii) Existing Memorandum of Understanding (MoU) between DTU and Indian Army
- (ix) Proposed Memorandum of Agreement (MoA) between DTU and Indian Army for academically rehabilitating medically boarded-out cadets

Enforcement

- (i) The policy will be enforced upon BOM approval and in accordance with the MoA.
- (ii) The policy shall remain effective as agreed upon in MoA
- (iii) The policy will be reviewed from time to time in accordance with the changes in regulations received from regulatory bodies.
- (iv) The policy may be terminated by giving a notice of one month in accordance with the provisions of MoU between Delhi Technological University (DTU) and Indian Army (IA), should there be any reason to do so

Title

1. This SOP shall be called the: "*Standard Operating Procedure (SOP) for Lateral Transfer / Admission of Medically Boarded-Out Cadets into Undergraduate equivalent B.Tech Programmes at Delhi Technological University (DTU)*"

Objectives

2. The objectives of this SOP are: as under -
 - (i) To facilitate compassionate academic rehabilitation and continuation of technical education of cadets whose military careers are discontinued on medical grounds.
 - (ii) To establish a legally and academically compliant framework for lateral transfer/admission into DTU through credit transfer and academic equivalence.
 - (iii) To align the process with NEP 2020, UGC, AICTE and DTU academic regulations.
 - (iv) To maintain academic rigor while providing institutional flexibility on compassionate grounds.

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Applicability/Eligibility

3. This SOP shall apply only to the following Candidates who would be eligible :-
- (i) Medically boarded-out cadets from Indian Army technical training institutions/ Academies and their lateral transfer /admission to Undergraduate equivalent B.Tech programmes of DTU.
 - (ii) Cases formally recommended by competent authorities of the Indian Army.
4. This SOP shall not apply to:
- (i) Fresh admissions through regular admission processes.
 - (ii) Non-technical programmes.
 - (iii) Sponsored short-term courses.
 - (iv) General migration cases not covered under this SOP.
 - (v) Cases not supported by formal recommendations from the Indian Army.

Definitions

5. For the purpose of this SOP, following definitions shall be used :

5.1 Medically Boarded-Out Cadet - A cadet undergoing technical training under the Indian Army who has been declared medically unfit for continuation in military service/training by competent medical and military authorities.

5.2 Lateral Transfer / Admission - A special compassionate academic transfer mechanism permitting continuation of studies in DTU after evaluation of credits, curriculum equivalence and academic eligibility.

5.3 Supernumerary Seat - A seat created over and above the sanctioned intake approved specifically for admission of medically boarded-out cadets under this SOP.

5.4 Credit Mapping- The process of evaluating subject-wise equivalence, credit equivalence, laboratory equivalence, internship/training equivalence and curriculum compatibility between the Army technical institution and DTU.

5.5 Equivalence Committee- A committee constituted by DTU for examining requests under this SOP and recommending academic equivalence and semester placement.

Applicable Branches

8. Admissions under this SOP may initially be considered in the following branches :
- (i) Civil Engineering
 - (ii) Mechanical Engineering
 - (iii) Electronics Engineering

Additional branches may be included subject to approval by competent authorities.

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Admission in Different Academic Years

9. Lateral transfer/admission under this SOP may be permitted as under -

9.1 First Year Admission - Admission in First Year may be considered where (i) the cadet has completed part/full credits equivalent to part/full first semester/year requirements, (ii) curriculum compatibility exists, (iii) and deficiencies, if any, can be reasonably bridged.

9.2 Second Year Admission - Admission in Second Year may be considered where: (i) sufficient credits equivalent to first year B.Tech curriculum have been earned, (ii) laboratories and foundational courses are substantially equivalent, (iii) and bridge requirements are manageable.

9.3 Third Year Admission - Admission in Third Year may be considered where: (i) subject-wise equivalence for four semesters is established, (ii) core engineering competencies are substantially met, (iii) and deficiency courses, if any, are identified by the committee.

9.4 Fourth Year Admission - Admission in Fourth Year may be considered where: (i) substantial curriculum equivalence exists up to sixth semester, (ii) remaining requirements are identifiable and completable within prescribed duration, (iii) and project/internship/training equivalence is evaluated.

Supernumerary Seats

10. Supernumerary seats may be created and utilised as under Following recommendations are made -

(a) **Seat Creation** - Creation of a maximum of 01 "supernumerary" seat each in Civil Engineering, Electronics and Mechanical branches (i.e a total of 03) per academic year with following conditions for its utilisation -

(i) . 01 Supernumerary seat per branch per academic year will be used to offer admission to one of the medically boarded out Cadets from the 1st or 2nd or 3rd or 4th year. However, first priority (P1) will be given to Cadets seeking admission in 1st year, second priority (P2) will be given to Cadets seeking admission in 2nd year, third priority (P3) will be given to Cadets seeking admission in 3rd year and fourth priority (P4) will be given to the Cadets seeking admission in 4th year.

(ii) In any academic year, in case there are more than one applicants/Cadets in any one branch and seats are available in other branches, then the seat may be transferred to the branch having more than one applicants/Cadets. However, maximum intake in any branch (across all years) shall not exceed 02 Cadets in any one academic year.

(iii) Keeping the above points in mind, IA will provide three names, (i) Nominated (ii) Reserve 1 (iii) Reserve 2 in every academic year, against each vacancy (i.e 01 seat each in Civil Engineering, Electronics and Mechanical branches) for final scrutiny and selection by DTU.

Admission Procedure

11. The admission procedure under this SOP shall be as follows:

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Step 1: Recommendation by Indian Army

- (i) The Indian Army shall forward recommendations of medically boarded-out cadets to DTU. IA will provide three names, (i) Nominated (ii) Reserve 1 (ii) Reserve 2 in every academic year, against each vacancy (i.e 01 seat each in Civil Engineering, Electronics and Mechanical branches) for final scrutiny and selection by DTU.
- (ii) The recommendation shall include academic records, credits earned, syllabus and relevant documents.

Step 2: Submission of Documents - The following documents in respect of the Candidate shall be submitted by the Indian Army -

- (a) Initially, following documents are required to be submitted - (i) Formal recommendation letter. (ii) Medical boarding-out approval. (iii) Semester-wise transcripts. (iv) Subject-wise credits earned. (v) Detailed syllabus/curriculum. (vi) Conduct and discipline certificate. (vii) Training and internship records.
- (b) On confirmation of acceptance by DTU, following documents be submitted (i) Application form. (ii) Identity proof. (iii) Academic documents. (iv) Undertaking/ affidavit, if required.
- (c) Applicable Fees at the time of joining
- (d) Any additional document as may be required

Step 3: Constitution of an Evaluation and Equivalence Committee – On receipt of the request from the Indian Army, the competent authority shall constitute an **Evaluation and Equivalence Committee**. The constitution and functions of the Committee are elaborated in next section.

Step 4: Approval by Competent Authority -The recommendations of the Committee shall be processed for approval by competent DTU authorities and then conveyed to Indian Army.

Step 5: Admission and Registration - Upon approval: (i) the cadet shall be admitted against a supernumerary seat, (ii) the department shall complete registration formalities, (iii) and the candidate shall be integrated into the academic programme.

Evaluation and Equivalence Committee

12. DTU may constitute an **Evaluation and Equivalence Committee** comprising:
- (i) Dean (UG) – Chairperson
 - (ii) Concerned Heads of Departments - Members
 - (iii) Two faculty members from allied departments - Member
 - (iv) One Member from Admission Committee - Member
 - (v) Additional Subject experts, if required – Special Invitee

Functions of the Committee

13. The committee shall carry out the following -

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- (i) examine recommendations received from the Indian Army,
- (ii) verify academic and medical documents,
- (iii) conduct course-to-course equivalence mapping,
- (iv) evaluate curriculum compatibility,
- (v) assess laboratory and practical equivalence, (vi) determine accepted credits,
- (vi) identify bridge/deficiency courses,
- (vii) recommend semester placement,
- (viii) recommend attendance or prerequisite relaxations, if permissible,
- (ix) recommend conditions of admission including semester in which to admit, bridge course requirements, additional credits requirements etc
- (x) and submit recommendations to competent authorities.

Credit Mapping and Academic Equivalence

14. Credit transfer and equivalence shall be governed as under:

14.1 Academic Equivalence - Equivalence shall consider: (i) theory courses, (ii) laboratory courses, (iii) tutorials, (iv) projects, (v) internships, (vi) military technical training, (vii) and practical exposure.

14.2 Military Training Credits - (i) Credits earned through Basic Military Programme (BMP) or equivalent military training may be considered for equivalence (ii) Such credits may, where academically justified, be adjusted against industrial training/internship requirements. (iii) Final equivalence shall be determined by the Evaluation Committee.

Powers to Resolve

15. It may be appreciated that during the implementation, there may be issues which may not have been covered in this SOP or may need clarification, in all such cases, the decision/directions of the Vice Chancellor, DTU shall be final.

Conclusion

16. This SOP lays down the basic framework for for Lateral Transfer / Admission of Medically Boarded-Out Cadets into Undergraduate equivalent B.Tech Programmes at Delhi Technological University (DTU)


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Department of Geospatial Science and Technology
Delhi Technological University
Shahbad Daultpur, Bawana Road, Delhi – 110042

F.No.DTU/DGST/

Dated: - 19 May 2026

MINUTES OF MEETING

MoA BETWEEN INDIAN ARMY (IA) AND DTU

1. A Committee as under has been constituted vide office Order No. DTU/Reg/Committees/2023-24/280 dated 05.01.2026 to finalize MoA for execution between Indian Army (IA) and DTU -

- | | |
|---|--------------------|
| (a) Dean Academic (PG) | - Chairperson |
| (b) Dean Academic (UG) | - Member |
| (c) Dean (R&D) | - Member |
| (d) Accounts Representative (COF Nominee) | - Member |
| (e) OSD to VC | - Member |
| (f) Brig AS Bains, Brig MI (Tech), MI Dte, IA - | Member |
| (g) Dr. K C Tiwari, HoD DGST | - Member Secretary |

2. The Committee held its deliberations on 19.Feb.2026 (offline), 17 Mar 26 (Online) and on subsequent dates to finalize the Minutes.. Copy of attendance sheet for each of the meetings is enclosed. IA has submitted a draft MoA and a set of Agenda points for consideration. The recommendations of the Committee arrived after detailed deliberations are summarized in the following paragraphs.

Agenda 1 Approval of reserved vacancies for IA personnel sponsored by DGMI for regular courses (Geoinformatics PG Courses) at DTU as per list att as Appx 'A'.

Points Discussed -

- (i) MI Dte, IA Requested for reservation of 02 seats in all the PG programs of Geospatial Science and Technology (refer Appx A) offered by Department of Geospatial Science and Technology, DTU
- (ii) Selection and nomination against these vacancies by MI Dte
- (iii) Requirement of bridge course for officers not in touch with the subject

Recommendations -

(i) Recommended reservation of 01 seat in PhD (Geoinformatics) and 02 seats each in M.Tech (Geoinformatics), M.Tech By Research (Geoinformatics) and M.Sc (Geospatial Science) in the Department of Science and Technology. The 01 reserved seat for PhD (under Full Time sponsored category) shall however be adjusted against the overall vacancies available in the Department. Since there is a restriction on the maximum number of students that a faculty can supervise, MI Dte shall ascertain availability of vacancies in the Department well in time before nominating the Candidates.

(ii) These candidates (for PhD, M.Tech, M.Tech By Research, M.Sc) will be considered only against Full Time sponsored vacancies.

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(iii) Selection and nomination of candidates to be done by MI Dte as per their internal assessment requirements. DTU will offer admission based on the MI Dte letter of nomination subject to such nominated candidates meeting eligibility criteria as laid down by DTU from time to time.

(iv) The additional 02 vacancies (in M.Tech, M.Tech By Research and M.Sc) will be considered as supernumerary over and above all the existing regular and sponsored vacancies.

(v) In case, there are candidates over and above the above mentioned reservation of 02 candidates, they may apply directly against DTU advertisements and will be considered against unreserved vacancies as per admission eligibility and selection criteria.

(vi) DTU will conduct an online/offline bridge course for the nominated candidates to bring them at par with the other students, if required. The details of the bridge course and the fees shall be intimated at the time of commencement of the Course. The fees will have to be borne by the candidates nominated, and paid before admission.

(vii) The above reservations of seats may be discontinued at the discretion of the competent authority at DTU under intimation to the IA.

(viii) Subject to approval of the AC and BOM at DTU, and of IA

Agenda 2 **Approval of reserved vacancies for IA personnel sponsored by IA for all other regular (PG courses) except those included in Agenda 1 as given in Appx 'B'.**

Points Discussed -

- (i) Specific requirement of IA wrt programs mentioned in Appx B
- (ii) Selection and nomination by IA
- (iii) Requirement of preparatory module

Recommendations -

(i) Recommended reservation of 01 seat across all the programs offered by DTU as mentioned at Appx 'B' by various Departments of DTU. These candidates (for PhD, M.Tech, M.Tech By Research, M.Sc, M.BA) will be considered only against Full Time sponsored vacancies.

(ii) The 01 reserved seat for PhD (under Full Time sponsored category) shall however be adjusted against the overall vacancies available in the concerned Department. Since there is a restriction on the maximum number of students that a faculty can supervise, IA shall ascertain availability of vacancies in the Department well in time before nominating the Candidates.

(iii) MI Dte, IA may also consider utilizing the existing PGT scheme of IA and the R&T scheme DRDO.

(iv) These reserved vacancies will be considered as supernumerary over and above all the existing regular and sponsored vacancies.

(v) Selection and nomination of candidates to be done by IA as per their internal assessment requirements. DTU will offer admission based on the IA letter of nomination subject to such nominated candidates meeting eligibility criteria as laid down by DTU.

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(vi) DTU will conduct an online/offline bridge course for the nominated candidates to bring them at par with the other students, if required. The details of the bridge course and the fees shall be intimated at the time of commencement of the Course. The fees will have to be borne by the candidates nominated, and paid before admission.

(vii) The above reservations of seats may be discontinued at the discretion of the competent authority at DTU under intimation to the IA.

(viii) Subject to approval of the AC and BOM at DTU, and IA

Agenda 3 (i) Conduct of specially curated courses/ capsule in Geoinformatics & Image Interpretation. Course curriculum placed at Appx 'C'.

Points Discussed –

- (i) List of Courses proposed by MI Dte
- (ii) Schedule including No of courses, strength & period of each capsule.
- (iii) Financial implications including provision of funds
- (iv) Mode of conduct – Hybrid, online or physical/ offline.
- (v) Vacancy allotment by MI, Dte.
- (vi) Creditisation of the curated courses

Recommendations

- (i) All the courses / capsule in Geoinformatics & Image Interpretation placed at Appx 'C'. recommended for approval. Further, in case any additional courses/capsules required by IA in any other Department, the same will also be considered.
- (ii) The MI Dte may schedule any number of proposed short courses any time between June to May in the upcoming academic year. However, these courses may preferably be slotted during June – July (Summer vacation) or between 15 Dec – 15 Jan (in and around winter vacation). Besides, preferably, a minimum of three courses must be planned in a year. The schedule of these courses to be conducted during upcoming academic year (June – May) be preferably confirmed before 31 March of every year so as to allow proper planning and preparation
- (iii) Budget for two weeks/three weeks courses both in offline and online mode is as given at Appendix D. These are subject to approval of DTU Accounts and IFA (IA) and its revision / extension in every financial year.
- (iv) Mode of conduct – MI Dte may opt for any of the Hybrid, online or offline mode. However, it is recommended that MI Dte must prefer to choose offline more where practically possible particularly for greater exposure to the available academic resources at DTU and for candidates attending first time. The online courses shall also be governed by DTU Digital Education guidelines issued from time to time.
- (v) Vacancy allotment by MI Dte– minimum of 20 and a maximum of 25 vacancies per course is recommended
- (vi) Creditisation of the curated courses - dealt under separate agenda.
- (vii) Subject to approval of the AC and BOM at DTU, and IA

Agenda 4 Lateral Absorption for Medically Boarded-out Cadets. Reservation of 01 Seat each in UG Engg courses for medically boarded-out cadets from pre-commission Training Institutes / Establishments of IA imparting technical training to cadets.

Points Discussed –

- (i) Legality of such admissions midway wherein the batch may have started 6 months or more in advance
- (ii) Requirement of statutory bodies, if any, in such cases.

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- (iii) Alignment with NEP Credit framework
- (iv) Eligibility in view of common eligibility of JEE Mains exam

Recommendations - After detailed examination, the Committee recommended that a separate Committee may look into the issue since it has several legal and long term connotations

Agenda 5 Concession in admission criteria for serving IA persons proceeding on Study lve to attend regular PG courses at DTU as per list att as Appx 'C'.

Points Discussed -

- (i) It was requested by the IA to permit concessions in minimum marks/credit requirements for admission. For example, it was informed that the CGPA in some Degree awarded is out of 0-9 scale and not on a scale of 0-10
- (ii) It was informed by that, DTU follows AICTE and UGC guidelines for admissions and it may not be possible to give concessions in any AICTE approved program.

Recommendations - All admissions to adhere to DTU guidelines on eligibility for admissions

Agenda 6 Reservation of 03 seats in Admission to Regular UG & PG Courses to Wards of IA Pers Died in Harness and 100 % concession in Tuition Fees

Points Discussed -

- (i) Existing reservations and provisions of Priority I to VI approved by GOI/Supreme Court
- (ii) Legality of introducing additional seats ignoring existing admission criteria

Recommendations - Maintain status-quo

Agenda 7 Reservation of 01 seat in admission to Regular UG & PG Courses Wards of Serving/ Retd IA Persons and 25 % concession in Tuition Fees

Points Discussed - same as Agenda 6

Recommendations - Maintain status-quo

Agenda 8 Creditisation of the curated courses towards accumulation for PG Diploma and further programs in DTU

Points Discussed

- (i) Assigning of credits to the Geospatial Courses proposed by the MI Dte under Agenda 3
- (ii) Creditisation of similar courses which the IA/MI Dte may desire to creditise and redeem against any Certificate/PG Diploma Courses.
- (iii) Possibility of redeeming the credits earned for a PG Diploma in Geoinformatics or for the first year of M.Tech By Research (Geoinformatics)
- (iv) Maintenance of credits by IA in ABC (Academic Bank of Credits)

Recommendations - In view of the scope and the requirement of a detailed scrutiny, it was recommended that a separate Committee may be constituted to look into this issue

Agenda 9 Establishment of an Army- DTU GIS Test-bed Laboratory both at DTU and MI Dte

Points Discussed -

- (i) DTU welcomed the suggestion and expressed willingness to setup such as Lab in DTU/IA

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premises. IA was requested to share their proposal and contribution in detail.

Recommendations – Recommended to set up a joint Test-bed laboratory both at DTU and MI Dte. The proposal to be progressed by both the DTU and IA for its execution in respective places.

Agenda 10 Joint projects on ISR Analytics, predictive analysis, battlefield autonomy and cyber defence systems

Points Discussed –

- (i) DTU invited IA/MI Dte to join hands in submitting proposal against various Govt schemes on ISR Analytics, predictive analysis, battlefield autonomy and cyber defence systems etc.
- (ii) IA informed that certain Survey establishments such as CAMS and IT/ISR units of the IA located in Delhi may be interested in collaborating and submitting joint proposals to the Govt.

Recommendations – IA to inform a mechanism for collaboration while submitting joint proposals, sharing of IPR rights and coordination

Agenda 11 Approval of MoA

Points Discussed –

All the points of the MoA covered under above agenda

Recommendations – MoA may be signed by both the parties after amending the MoA in line with the recommendations made above.



Prof. K.C. Tiwari
HoD DGST
Member Secretary



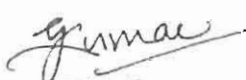
Brig AS Bains
Brig MI (Tech), MI Dte IA
Member

Moved out
of DTU.

Col Pushpendra Mair
OSD to VC
Member



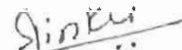
Shri G.C. Prasad
COF, DTU
Member



Prof. Girish Kumar
Dean (R&D)
Member



Prof. Rajeshwari Pandey
Dean Academic (UG)
Member



Prof. Rinku Sharma
Dean Academic (PG)
Chairperson

Appendix A
(Refer Agenda 1)

LIST OF COURSES FOR RESERVED VACANCIES :

IA PERS SPONSORED BY DGMI (STUDY LVE)

<u>S No</u>	<u>Course</u>	<u>No of Vacancies</u>	<u>Remarks</u>
1.	Ph.D in Geoinformatics	01	Sponsored by DGMI
2.	M.Tech (Geoinformatics)	02	
3.	M.Tech by Research (Geoinformatics)	02	
4.	M.Sc (Geospatial Science)	02	

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LIST OF PG COURSES FOR INDIAN ARMY PERS
PROCEEDING ON STUDY LVE THROUGH ARTRAC

<u>S No</u>	<u>Course</u>	<u>Program</u>	<u>Duration</u>
1.	Ph.D.	Offered by all departments of DTU	2 Years
2.	M.Tech.	Geoinformatics (GNIF)	
3.		Geotechnical Engineering (GTE)	
4.		Hydraulic & Water Resource Engineering (HRE)	
5.		Structural Engineering (STE)	
6.		Computer Science & Engineering (CSE)	
7.		Artificial Intelligence (AI)	
8.		Information Technology (IT)	
9.		Software Engineering (SWE)	
10.		Data Science (DS)	
11.		Microwave & Optical Communication (MOC)	
12.		Signal Processing & Digital Design (SPD)	
13.		VLSI Design & Embedded System (VLS)	
14.		Control & Instrumentation (C&I)	
15.		Power System (PSY)	
16.		Power Electronics & System (PES)	
17.		Environmental Engineering (ENE)	
18.		Product Engineering (PRD)	
19.		Thermal Engineering (THE)	
20.		Industrial Engineering & Management (IEM)	
21.		Energy System & Management (ESM)	
22.		Computer Aided Analysis & Design (CAAD)	
23.		Polymer Technology (PTE)	
24.		Material Science & Technology (MST)	
25.		Bioinformatics (BIO)	
26.		Industrial Biotechnology (IBT)	
27.	M.Tech. by Research	Offered by various departments of DTU	
28.	M.Sc	Offered by various departments of DTU	
29.	MBA	MBA Programme	
30.		Business Analytics	
31.		Innovation & Entrepreneurship and Venture Development	
32.		Data Science & Analytics	

Note : In addition, any other course announced on DTU Website which is of interest to Indian Army will be considered on the request of IA subject to approval by BOM.

SPECIALLY CURATED COURSES FOR DGMI TO BE CONDUCTED BY DTU

<u>S No</u>	<u>Level</u>	<u>Contents</u>
1.	Level 1 : Introductory Modules - Includes basic introductory modules.	1.1. Introduction to Optical Remote Sensing . 1.2. Introduction to fundamentals of GIS . 1.3. Introduction to Microwave Remote Sensing . 1.4. Introduction to LiDar Remote Sensing . 1.5. Introduction to Surveying/ mapping and navigation . 1.6. Introduction to basic Image processing . 1.7. Introduction to AI/ML .
2.	Level 2 : Skill Building Modules	2.1. Basic spatial mathematics, probability and statistics. 2.2. Python programming. 2.3. Matlab programming. 2.4. Introduction and familiarity with of image processing software.
3.	Level 3 : Advanced Modules	3.1. Advanced Optical / Hyperspectral Remote Sensing . 3.2. Advanced GIS and Web-GIS . 3.3. Advanced Microwave Remote Sensing . 3.4. Advanced LiDar Remote Sensing . 3.5. Advanced Surveying/ Mapping and navigation . 3.6. Advanced Image processing . 3.7. Advanced Thermal Image processing . 3.8. Advanced AI/ML .
4.	Level 4 : Org Specific Problem Solving Modules	IA will provide a set of problems and depute qualified officers who can work with the guidance of faculty for solving these org specific requirements/ problems of the IA. These may include, field target detection, Drone data analysis, disaster management, landslides, Glacial Lake Outburst, Floods etc.

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BUDGET ESTIMATES

1. Following documents have been referred for budget –

1.1. **UGC approved hourly rates for Guest Faculty.** In this case, the faculty engaged will be mostly from within the University and certain experts from outside. They will be paid this extra remuneration for the hours engaged. Copy of the approved rates is enclosed.

2. **Budget per Module in Offline/Online Mode** – The budget for 12 days (two weeks) (12 days= 12*8 = 96 Hrs) and 18 days (three weeks) (18 days= 18*8 = 144 Hrs) in offline/online mode will be –

S No	HEAD	AMOUNT				REMARKS
NON-RECURRING (ONE TIME FIXED COSTS)						
1	Infrastructure	Nil				
2	Equipment and Software	Nil				
RECURRING (FOR EVERY COURSE/PROGRAM)						
University Expenditure						
		02 WEEKS OFFLINE	02 WEEKS ONLINE	03 WEEKS OFFLINE	03 WEEKS ONLINE	
	For Faculty /Experts/ Coordinator					
3	Honorarium PI	25,000/- (Fixed)	25,000/- (Fixed)	25,000/- (Fixed)	25,000/- (Fixed)	For the PI coordinating the courses
4	Honorarium Experts (Professor /Associate Professor)					
	Theory	12*5*2750/- = 1,65,000/-	12*5*2750/- = 1,65,000/-	18*5*2750/- = 2,47,500/-	18*5*2750/- = 2,47,500/-	12 days /18 days for 5 hrs of theory @ Rs 2750/- per hr
5	Lab Practical	12*3*1375/- = 49,500/-	12*3*1375/- = 49,500/-	18*3*1375/- = 74,250/-	18*3*1375/- = 74,250/-	12 days /18 days for 3 hrs for Lab practical @ Rs 1375/-
	Sub-Total (Theory + Practical)	2,14,500/-	2,14,500/-	3,21,750/-	3,21,750/-	
6	Payment to hired Technical/Non-Technical staff- peons and sweepers	12*8*500/- = 48000/-	12*8*500/- = 48000/-	18*8*500/- = 72,000/-	18*8*500/- = 72,000/-	12 days/18 days @ 8 hrs) @Rs 500/- per hr
7	Travel - Coordinator/ Faculty/Experts/Staff	25,000/-	25,000/-	35,000/-	35,000/-	As per DST norms
8	Miscellaneous	25,000/-	25,000/-	25,000/-	25,000/-	Certificate, minor repair/ maintenance, printing/stationery/ extra hired staff)
9	University Overhead	1,50,000/-	1,50,000/-	1,50,000/-	1,50,000/-	Fixed University Charges
10	Sub-Total (University Expenditure)	4,87,500/-	4,87,500/-	6,28,750/-	6,28,750/-	

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Participants						As intimated by IA
11	Boarding/Lodging	Nil	Nil	Nil	Nil	Will be provided by the contribution from the participants
12	Lunch and Tea (twice)	Nil	Nil	Nil	Nil	
13	Training Kit	15,000/-	0	15,000/-		@ Rs 500/- for 20 participants and 10 other faculty/invitees.
14	Sub-Total (Participants)	15,000/-	0	15,000/-	0	
15	Sub Total (University Expenditure + Participants)	5,02,500/-	4,87,500/-	6,43,750/-	6,28,750/-	
16	Contingency	50,250/-	48,750/-	64,375/-	62,875/-	@ 10 % of total for any other expenditure or any unforeseen requirements, etc
17	Grand Total	5,52,750/-	5,36,250/-	7,08,125/-	6,91,625/-	

NOTE – (i) An annual budget summary duly vetted by DTU Accounts will be submitted

Disclaimer – (i) The budget is tentative and subject to approval by both the University Accounts and the IFA Army.

(ii) Minor revisions may be required as per Govt (DST) and University norms from time to time on mutually agreeable terms.

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**RECOMMENDATIONS FOR RESERVED VACANCIES FOR IA PERSONNEL SPONSORED BY IA FOR
REGULAR PG PROGRAMS IN GEOINFORMATICS/ GEOSPATIAL SCIENCE AT DTU**

<u>SN</u>	<u>Course</u>	<u>No of Vacancies</u>	<u>Remarks</u>
1	Ph.D in Geoinformatics	01	Sponsored by IA
2	M.Tech (Geoinformatics)	02	
3	M.Tech by Research (Geoinformatics)	02	
4	M.Sc (Geospatial Science)	02	

Recommendations

(i) Recommended reservation of 01 seat in PhD (Geoinformatics) and 02 seats each in M.Tech (Geoinformatics), M.Tech By Research (Geoinformatics) and M.Sc (Geospatial Science) in the Department of Science and Technology. These candidates (for PhD, M.Tech, M.Tech By Research, M.Sc) will be considered only against Full Time sponsored vacancies.

(ii) Since there is a restriction on the maximum number of students that a faculty can supervise, the 01 reserved seat for PhD (under Full Time sponsored category) shall be adjusted against the overall vacancies available in the Department. IA/MI Dte shall therefore ascertain availability of vacancies in the Department well in advance before nominating the Candidates.

(iii) Selection and nomination of candidates to be done by IA / MI Dte as per their internal assessment requirements. DTU will offer admission based on the MI Dte letter of nomination subject to such nominated candidates meeting eligibility criteria as laid down by DTU from time to time.

(iv) The additional 01 vacancy for PhD and 02 vacancies (each for M.Tech and M.Tech By Research) will be considered against existing category of sponsored candidates, however, in case there is no category of sponsored candidates then it will be considered as supernumerary.

(v) In case, there are more candidates than the above mentioned reserved vacancies, then such candidates who are not nominated by the IA/MI Dte may apply directly against DTU advertisements and will be considered against unreserved vacancies as per admission eligibility and selection criteria.

(vi) DTU will conduct an online/offline bridge course for the nominated candidates to bring them at par with the other students, if required. The details of the bridge course and the fees shall be intimated at the time of commencement of the Course. The fees will have to be borne by the candidates nominated, and paid before admission.

(vii) The above reservations of seats may be discontinued at the discretion of the competent authority at DTU under intimation to the IA.

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RECOMMENDATIONS FOR RESERVED VACANCIES FOR IA PERSONNEL SPONSORED BY IA FOR ALL

REGULAR PG PROGRAMS OTHER THAN MENTIONED AT ANNEXURE II

S No	Course	Program	Reservation
1.	Ph.D.	Offered by all departments of DTU	01 seat in each program
2.	M.Tech.	Geotechnical Engineering (GTE)	
3.		Hydraulic & Water Resource Engineering (HRE)	
4.		Structural Engineering (STE)	
5.		Computer Science & Engineering (CSE)	
6.		Artificial Intelligence (AI)	
7.		Information Technology (IT)	
8.		Software Engineering (SWE)	
9.		Data Science (DS)	
10.		Microwave & Optical Communication (MOC)	
11.		Signal Processing & Digital Design (SPD)	
12.		VLSI Design & Embedded System (VLS)	
13.		Control & Instrumentation (C&I)	
14.		Power System (PSY)	
15.		Power Electronics & System (PES)	
16.		Environmental Engineering (ENE)	
17.		Product Engineering (PRD)	
18.		Thermal Engineering (THE)	
19.		Industrial Engineering & Management (IEM)	
20.		Energy System & Management (ESM)	
21.		Computer Aided Analysis & Design (CAAD)	
22.		Polymer Technology (PTE)	
23.		Material Science & Technology (MST)	
24.		Bioinformatics (BIO)	
25.		Industrial Biotechnology (IBT)	
26.	M.Tech. by Research	Offered by various departments of DTU	
27.	M.Sc	Offered by various departments of DTU	
28.	MBA	MBA Programme	
29.		Business Analytics	
30.		Innovation & Entrepreneurship and Venture Development	
31.		Data Science & Analytics	

Note : In addition, any other course announced on DTU Website which is of interest to Indian Army will be considered on the request of IA subject to approval by BOM.

Recommendations

(i) Recommended reservation of 01 seat across all the programs offered by various Departments at DTU as mentioned at Annexure II. These candidates (for PhD, M.Tech, M.Tech By Research, M.Sc, M.BA) will be considered only against Full Time sponsored vacancies.

(ii) Since there is a restriction on the maximum number of students that a faculty can supervise, the 01 reserved seat for PhD (under Full Time sponsored category) shall be adjusted against the overall vacancies available in

the concerned Department. IA shall therefore ascertain availability of vacancies in the Department well in time before nominating the Candidates.

(iii) The additional 01 vacancy in each of these programs will be considered against existing category of sponsored candidates, however, in case there is no category of sponsored candidates then it will be considered as supernumerary.

(iv) Selection and nomination of candidates to be done by IA as per their internal assessment requirements. DTU will offer admission based on the IA letter of nomination subject to such nominated candidates meeting eligibility criteria as laid down by DTU from time to time.

(v) In case, there are more candidates than the above mentioned reserved vacancies, then such candidates who are not nominated by the IA/MI Dte may apply directly against DTU advertisements and will be considered against unreserved vacancies as per admission eligibility and selection criteria.

(vi) IA/MI Dte may also consider utilizing the existing PGT scheme of IA and the R&T scheme DRDO.

(vii) DTU will conduct an online/offline bridge course for the nominated candidates to bring them at par with the other students, if required. The details of the bridge course and the fees shall be intimated at the time of commencement of the Course. The fees will have to be borne by the candidates nominated, and paid before admission.

(viii) The above reservations of seats may be discontinued at the discretion of the competent authority at DTU under intimation to the IA.

CONDUCT OF SPECIALLY CURATED COURSES FOR IA

S No	Level	Contents
1.	Level 1 : Introductory Modules - Includes basic introductory modules.	1.1. Introduction to Optical Remote Sensing . 1.2. Introduction to fundamentals of GIS . 1.3. Introduction to Microwave Remote Sensing . 1.4. Introduction to LiDar Remote Sensing . 1.5. Introduction to Surveying/ mapping and navigation . 1.6. Introduction to basic Image processing . 1.7. Introduction to AI/ML .
2.	Level 2 : Skill Building Modules	2.1. Basic spatial mathematics, probability and statistics. 2.2. Python programming. 2.3. Matlab programming. 2.4. Introduction and familiarity with of image processing software.
3.	Level 3 : Advanced Modules	3.1. Advanced Optical / Hyperspectral Remote Sensing . 3.2. Advanced GIS and Web-GIS . 3.3. Advanced Microwave Remote Sensing . 3.4. Advanced LiDar Remote Sensing . 3.5. Advanced Surveying/ Mapping and navigation . 3.6. Advanced Image processing . 3.7. Advanced Thermal Image processing . 3.8. Advanced AI/ML .
4.	Level 4 : Org Specific Problem Solving Modules	IA will provide a set of problems and depute qualified officers who can work with the guidance of faculty for solving these org specific requirements/ problems of the IA. These may include, field target detection, Drone data analysis, disaster management, landslides, Glacial Lake Outburst, Floods etc.

Recommendations of the Committee (Please also refer to the scanned copy of recommendations)

(i) All the courses / capsule in Geoinformatics & Image Interpretation mentioned at Annexure IV recommended. Further, in case any additional courses/capsules required by IA in any other Department, the same will also be considered.

(ii) The IA/ MI Dte may schedule any number of proposed short courses any time between June to May in the upcoming academic year. However, these courses may preferably be slotted during June – July (Summer vacation) or between 15

Dec – 15 Jan (in and around winter vacation). Besides, preferably, a minimum of three courses must be planned in a year. The schedule of these courses to be conducted during upcoming academic year (June – May) be preferably confirmed before 31 March of every year so as to allow proper planning and preparation

(iii) Budget for two weeks/three weeks courses both in offline and online mode is as given at Annexure V. **This has been vetted by DTU Accounts and is now subject to approval of IFA (IA). Further, these will be revised / extended in every financial year subject to approval of DTU Accounts and IFA (IA).**

(iv) **Mode of conduct** – IA / MI Dte may opt for any of the Hybrid, online or offline mode. However, it is recommended that IA / MI Dte must prefer to choose offline more where practically possible particularly for greater exposure to the available academic resources at DTU and for candidates attending first time. The online courses shall also be governed by DTU Digital Education guidelines issued from time to time.

(v) **Vacancy allotment by IA / MI Dte**– minimum of 20 and a maximum of 25 vacancies per course is recommended

(vi) **Creditisation of the curated courses** - as per DTU policy to be promulgated separately.

BUDGET ESTIMATES FOR CURATED COURSES REQUESTED BY IA

1. Following documents have been referred for budget –

1.1. **UGC approved hourly rates for Guest Faculty.** In this case, the faculty engaged will be mostly from within the University and certain experts from outside. They will be paid this extra remuneration for the hours engaged. Copy of the approved rates is enclosed.

2. **Budget per Module in Offline/Online Mode** – The budget for 12 days (two weeks) (12 days= 12*8 = 96 Hrs) and 18 days (three weeks) (18 days= 18*8 = 144 Hrs) in offline/online mode will be –

S No	HEAD	AMOUNT				REMARKS
NON-RECURRING (ONE TIME FIXED COSTS)						
1	Infrastructure	Nil				
2	Equipment and Software	Nil				
RECURRING (FOR EVERY COURSE/PROGRAM)						
University Expenditure						
		02 WEEKS OFFLINE	02 WEEKS ONLINE	03 WEEKS OFFLINE	03 WEEKS ONLINE	
For Faculty /Experts/ Coordinator						
3	Honorarium PI	25,000/- (Fixed)	25,000/- (Fixed)	25,000/- (Fixed)	25,000/- (Fixed)	For the PI coordinating the courses
4	Honorarium Experts (Professor /Associate Professor)					
	Theory	12*5*2750/- = 1,65,000/-	12*5*2750/- = 1,65,000/-	18*5*2750/- = 2,47,500/-	18*5*2750/- = 2,47,500/-	12 days /18 days for 5 hrs of theory @ Rs 2750/- per hr
5	Lab Practical	12*3*1375/- = 49,500/-	12*3*1375/- = 49,500/-	18*3*1375/- = 74,250/-	18*3*1375/- = 74,250/-	12 days /18 days for 3 hrs for Lab practical @ Rs 1375/-
	Sub-Total (Theory + Practical)	2,14,500/-	2,14,500/-	3,21,750/-	3,21,750/-	
6	Payment to hired Technical/Non-Technical staff-peons and sweepers	12*8*500/- = 48000/-	12*8*500/- = 48000/-	18*8*500/- = 72,000/-	18*8*500/- = 72,000/-	12 days/18 days @ 8 hrs) @Rs 500/- per hr
7	Travel - Coordinator/ Faculty/Experts/Staff	25,000/-	25,000/-	35,000/-	35,000/-	As per DST norms
8	Miscellaneous	25,000/-	25,000/-	25,000/-	25,000/-	Certificate, minor repair/ maintenance, printing/stationery/ extra hired staff)
9	University Overhead	1,50,000/-	1,50,000/-	1,50,000/-	1,50,000/-	Fixed University Charges
10	Sub-Total (University Expenditure)	4,87,500/-	4,87,500/-	6,28,750/-	6,28,750/-	

Participants						
11	Boarding/Lodging	Nil	Nil	Nil	Nil	As intimated by IA
12	Lunch and Tea (twice)	Nil	Nil	Nil	Nil	Will be provided by the contribution from the participants
13	Training Kit	15,000/-	0	15,000/-		@ Rs 500/- for 20 participants and 10 other faculty/invitees.
14	Sub-Total (Participants)	15,000/-	0	15,000/-	0	
15	Sub Total (University Expenditure Participants +	5,02,500/-	4,87,500/-	6,43,750/-	6,28,750/-	
16	Contingency	50,250/-	48,750/-	64,375/-	62,875/-	@ 10 % of total for any other expenditure or any unforeseen requirements, etc
17	Grand Total	5,52,750/-	5,36,250/-	7,08,125/-	6,91,625/-	

NOTE – (i) An annual budget summary duly vetted by DTU Accounts will be submitted

Disclaimer – (i) The budget is tentative and subject to approval by both the University Accounts and the IFA Army.

(ii) Minor revisions may be required as per Govt (DST) and University norms from time to time on mutually agreeable terms.

(iii) In case, any of the course is required to be conducted at locations given by IA, then the IA may provide infrastructure, travel and accommodation as per Govt entitlements

ECC 101: Economic Foundations for Engineers (4 credits)

Course Code & Course title	Course Structure			Pre-Requisite
ECC 101: Economic Foundations for Engineers	L	T	P	NIL
	4	0	0	

Course Objective:

This course introduces engineering students to the economic principles that govern individual decision-making, market outcomes, business strategies, and public policy. It equips students with analytical tools to evaluate trade-offs, assess the impact of government interventions, interpret macroeconomic developments, and examine the economic dimensions of technological change, innovation, sustainability, and market design. The course aims to develop the ability to apply economic reasoning to engineering, managerial, and policy-related problems in an increasingly technology-driven economy.

S. No.	Course Outcomes (CO)
CO1	Identify economic trade-offs and opportunity costs associated with individual, business, and engineering decisions
CO2	Analyse market outcomes using demand-supply frameworks and evaluate the effects of government interventions such as taxes, subsidies, and regulations
CO3	Compare alternative market arrangements and justify policy responses to issues related to public goods, common resources, and externalities
CO4	Analyse the impact of macroeconomic variables such as output, inflation, unemployment, interest rates, and exchange rates on business and engineering decisions
CO5	Evaluate contemporary economic issues, technological innovations, and market-design mechanisms using economic principles and evidence-based reasoning

S. No.	Content	Contact Hours
Unit I	Economic Thinking, Markets and Resource Allocation Thinking like an economist; scarcity and choice; opportunity cost; incentives and marginal decision-making; positive and normative economics; introduction to behavioural economics; bounded rationality; heuristics and biases; loss aversion; nudging and choice architecture; demand and supply; market equilibrium; elasticity of demand and supply; market efficiency;	13 hours

	taxes and subsidies; price controls; government intervention in markets; policy analysis and welfare implications Engineering Applications: Government regulations on AI; electric vehicle pricing and adoption; semiconductor shortages and chip markets; ride-sharing platforms and surge pricing; government incentives for renewable energy technologies	
Unit II	Consumers, Producers and Market Efficiency Consumer and producer theory; types of markets; efficiency of competitive markets; welfare analysis; property rights and economic development; intellectual property rights and innovation; public goods; common resources; externalities; environmental challenges; sustainability and climate change; market-based and regulatory solutions to environmental problems Engineering Applications: Patent protection in pharmaceuticals and software; open-source versus proprietary technologies; economics of clean energy transitions	13 hours
Unit III	Macroeconomics and Economic Policy National income and GDP; economic growth and productivity; unemployment; inflation; business cycles; financial markets; interest rates; exchange rates; balance of payments; fiscal policy; government budget and fiscal deficit; monetary policy; banking system and central banking; policy responses to inflation and recession Engineering Applications: Infrastructure investment and economic growth; impact of inflation on construction and engineering projects; exchange rate fluctuations and electronics imports; semiconductor supply chains and global trade; financing of technology start-ups; digital payments and financial inclusion in India	13 hours
Unit IV	Technology, Market Design and the Indian Economy Current trends in the Indian economy; digital economy, manufacturing and industrial development; entrepreneurship and start-up ecosystem; innovation and technological change; artificial intelligence and automation; network effects and platform economics; introduction to auctions; auction formats;	13 hours

	spectrum auctions; electricity markets; market design; technology and sustainability challenges. Engineering Applications: Telecom spectrum auctions in India; electricity market design and renewable energy integration; platform business models in e-commerce and digital payments	
	Total	52 hours

REFERENCES		
S. No.	Name of Books/Author/Publishers	Year of Publication/ Reprint
1	Principles of Economics. Mankiw, N. Gregory. Cengage Learning.	2025
2	Principles of Economics. Case, Karl E., Fair, Ray C., and Oster, Sharon E. Pearson	2024
3	Macroeconomics. Olivier Blanchard. Pearson	2026
4	Prediction Machines. The Simple Economics of Artificial Intelligence. Ajay Agrawal, Joshua Gans, Avi Goldfarb. Harvard Business Review Press	2018

Certificate Program on Applied AI, Data Analytics & Entrepreneurship

Subject Details

Subject Name: Applied AI, Data Analytics & Entrepreneurship

Contact Hours: 10 hours per week (Total 60 hours)

Credits: 3 credits

Duration: 6 weeks

Subject Area: Applied AI, Data Analytics & Entrepreneurship

Pre-requisite: Class 9 onwards

Target group: Students from Schools/colleges of NCT of Delhi

Intake Strength: 50 students

National Skills Qualifications Framework (NSQF) - Level 3

Weekly Hours: 10 hours per week

Course Objectives

1. To introduce students to the fundamentals of Artificial Intelligence and Machine Learning.
2. Build skills in prompt engineering and generative AI tools.
3. To develop a foundational understanding of data analysis by using Microsoft Excel and Python for data handling, cleaning, and calculations, and by visualizing insights through charts and graphs.
4. To introduce students to the fundamentals of entrepreneurship and innovation, enabling them to develop creative thinking, identify opportunities, and transform ideas into viable business concepts.
5. To develop a foundational understanding of Python programming, including its core features, syntax, and data structures.

Course Outcomes

By the end of the course, students will be able:

1. To understand core AI and machine learning concepts, analyze real-world applications, and recognize ethical issues such as bias, privacy, and responsible AI use.

2. To apply AI techniques by implementing basic machine learning models, using prompt engineering, and performing simple NLP tasks to generate and interpret outputs.
3. To apply the data analysis process by identifying data types, performing data handling and preprocessing using Excel and Python, and creating visualizations to interpret and present insights.
4. To generate innovative business ideas, develop basic business models, and effectively present (pitch) their startup concepts.
5. To understand fundamental programming concepts and Python language basics, and apply data types, variables, and operators to solve problems.

Salient Features of the Course

1. Course Content and Duration

This course is designed for students who want to explore Applied AI, Data Analytics, and Entrepreneurship, helping them develop problem-solving skills, think creatively, and build innovative ideas for the future.

2. Duration & Weightage

Total duration: 60 hours over 6 weeks

Theory: 50% (30 hours)

Practical: 50% (30 hours)

Unit-wise Topics

Unit 1: Fundamentals of Programming using Python

Basics of programming

Concept, need, applications

Introduction to Python

Features, advantages, Installing Python & IDEs (IDLE / VS Code basics), Writing and executing first Python program, Keywords, identifiers, comments, Basic input/output (print(), input())

Variables and assignment

Built-in data types, Numeric (int, float), String, Boolean, Type conversion (implicit & explicit)

Operators

Arithmetic, Relational, Logical, Expressions and precedence

Conditional statements

If, if-else, if-elif-else, Nested conditions

Looping constructs

For loop, while loop

Loop control statements

Break, continue, pass, Simple problem-solving using control flow

Functions

Concept of functions, Defining and calling function, Parameters and return values, Types of functions, Built-in, User-defined, Scope of variables (local/global)

Lists

Creation, indexing, slicing, Basic operations (append, remove, etc.)

Strings

Indexing, slicing, basic functions, Introduction to tuples and dictionaries (basic idea only)

Unit 2: AI and its Applications

Introduction to AI

Introduction to AI, how does AI work, ML and AI, Hard vs. Soft Computing, Recent examples of AI use cases, AI applications, AI in daily life, Learning systems, The role of data analysis with AI, Real-world case studies.

Introduction to Machine Learning

Introduction to machine learning, Supervised vs. unsupervised approaches. Model validation, Simple ML models with implementation using Scikit-learn. Regression, Classification, and Clustering Models with various performance measures. Sentiment Analysis and NLP.

Prompt Engineering

What is Prompt Engineering, Role in Generative AI tools (ChatGPT, AI assistants), Types of prompts: Instruction-based, Role-based, Few-shot prompting; Writing effective prompts, Prompt optimization techniques

Generative AI

Examples with Text, Image, Video generation, Tools overview, Use cases, Limitations, and risks

AI Ethics

Bias, privacy, responsible AI, Mini AI Project.

Unit 3: Data Analysis using Excel and Python

Introduction to Data Analysis

Purpose of data analysis, Types of Data, Structured and Unstructured data, Steps of data analysis, Microsoft Excel Basics, Interface, worksheets, Data entry and formatting, Formulas and Functions, SUM, AVERAGE, COUNT, IF statements.

Python Packages for Data Analysis

Numpy, Pandas, Matplotlib, NLTK. Reading CSV files, Data Frames, Usage of frames, pre-processing data using multiple Python frameworks, Data Formatting, Data Manipulation, Data normalization, Data Merging, Aggregation functions. Data Cleaning: Removing duplicates, Handling missing data.

Procedures and functionality of Data Mining in Analysis

Knowledge data discovery process, Data and attribute type, Discrete and continuous attributes. Techniques of Data pre-processing: Aggregation, Sampling, Dimensionality reduction, Feature selection and generation.

Data Visualization

Histograms, Boxplots, Venn Diagram, Bar Chart, Pie Chart, Line Chart, Scatter Plots.

Unit 4: Entrepreneurship Development

Introduction to Entrepreneurship

Creating and managing new ventures, focusing on opportunity and value creation, involves risk and innovation

Entrepreneurial Mindset

Creative and opportunity-oriented thinking, Traits: resilience, initiative, adaptability, Learning from failure

Idea Generation & Validation

Generate ideas (brainstorming, observation), identify customer needs, Test feasibility and demand

Basics of Innovation

New or improved solutions, Incremental vs disruptive, Drives competitiveness

Design Thinking

User-focused problem-solving, Steps: Empathize → Ideate → Test, Iterative approach

Business Model Basics

How business creates value. Key elements: customers, revenue, costs; Use of structured frameworks

Pitching Your Idea

Present idea clearly, Cover problem, solution, market; Communicate with confidence

Mini Startup Challenge

Hands-on team activity, Build and present idea, Apply learning practically

Reference Books:

- Paneerselvam, M. (2024). *An Introduction to Artificial Intelligence and Machine Learning*. S. Chand Publishing.
- Theobald, O. (2021). *Machine Learning for Absolute Beginners: A Plain English Introduction* (3rd ed.). Scatterplot Press.
- Han, J., Pei, J., & Tong, H. (2022). *Data mining: Concepts and techniques* (4th ed.). Morgan Kaufmann Ed.)
- Sundaradasu, S., & Sree, S. R. (2023). *Code with Python*. S. Chand Publishing.
- Cannon, J. (2018). *Python for beginners: Learn Python programming (Python 3)*

- Lambert, J., & Frye, C. (2021). Microsoft Excel Step by Step (Office 2021 and Microsoft 365). Microsoft Press.
- Ries, E. (2011). The lean startup: The million copy bestseller driving entrepreneurs to success. Crown Business.
- Computer Science with Python, Dhanpat Rai Publications.
- Python Programming: A Beginner's Guide, McGraw-Hill Education.
- Let Us Python, BPB Publications.
- Computer Science Class XI, NCERT Publications.
- Python Crash Course, No Starch Press.

Evaluation Scheme

- Practical Sessional (PRS): 20 marks
- Class Work Sessional (CWS): 20 marks
- End Term Examination (ETE): 60 marks

Grading System

- 40–50% → B
- 50–60% → B⁺
- 60–70% → A
- 70–80% → A⁺
- ≥ 80% → O
- Minimum grade for certification: **B**
- Re-examination allowed if failed

Additional Features

- Emphasis on peer learning and community engagement

Revenue Model for Proposed Certification Course (Hybrid Mode)

Sl No.	Expenditure Heads	Rate	Duration (Person Hrs)	Amount	Remarks
1	Course Structure Development	NIL	NIL	NIL	
2	Course Coordinator by the Department	5,000	1	5,000	
3	Course Delivery (Theory)	2,250	30	67,500	60 hours @ 10 hrs per week (Average of Rs. 2250 per hour)
4	Course Delivery (Practical)	1,125	30	33,750	
5	Industry Interaction - Guest Lecture	3,000	1	3,000	
6	Examination Paper Setting	2,000	1	2,000	
7	Conduct of Examination	3,000	1	3,000	
8	Evaluation of Paper	2,500	1	2,500	
9	Result Declaration & issue of Certificates	5,000	1	5,000	
10	Staff for the conduct of the course	2,000	6	12,000	(for weekends only)
11	MTS OEA	500	6	3,000	
12	Misc	5,000	1	5,000	
13	Contingency (% of Course Expenses)	10%		14,175	
	Approx Total Expense			1,55,925	

Sl. No.	Revenue Heads	Rate	No.	Amount	Remarks
a)	Minimum Course Fees (50 students)	3,200	50	1,60,000	Non-refundable
	Approx Total Revenue			1,60,000	
	University Share			4,075	Surplus

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