



# दिल्ली प्रौद्योगिकी विश्वविद्यालय Delhi Technological University

## 9<sup>th</sup> ANNUAL REPORT

## 9 वाँ वार्षिक प्रतिवेदन

(1 अगस्त, 2022 - 31 जुलाई, 2023)  
(1 August, 2022 - 31 July, 2023)



# DELHI TECHNOLOGICAL UNIVERSITY CAMPUS MAP





**दिल्ली प्रौद्योगिकी विश्वविद्यालय**  
**Delhi Technological University**

**9<sup>th</sup> ANNUAL  
REPORT**

**9 वाँ वार्षिक  
प्रतिवेदन**

**(1 अगस्त, 2022 - 31 जुलाई, 2023)**  
**(1 August, 2022 - 31 July, 2023)**







राज निवास  
दिल्ली-११००५४  
RAJ NIWAS  
DELHI-110054

D.O.No.:RN/2024/166  
Date: 22/02/2024



विनय कुमार सक्सेना  
उपराज्यपाल  
Vinai Kumar Saxena  
Lt. Governor

### **MESSAGE**

I am happy to know that Delhi Technological University (DTU) is publishing its Annual Report for the Academic Year 2022-2023.

The exemplary achievements in the field of education, technology, innovation and research by DTU since more than 82 years, are indeed praiseworthy, and I am happy that they continue to strive for excellence.

I convey my best wishes to the University for its future endeavours.

(Vinai Kumar Saxena)



**ARVIND KEJRIWAL**  
CHIEF MINISTER



GOVT. OF NATIONAL CAPITAL TERRITORY OF DELHI  
DELHI SECRETARIAT, I.P. ESTATE, NEW DELHI-110002  
PHONE : 23392020, 23392030

D.O. No. : esckmi/38  
Date : 24-01-2024



### **MESSAGE**

It gives me immense pleasure to know that Delhi Technological University (DTU) is releasing its Annual Report for the Academic Year 2022-2023.

Education assumes a pivotal role in development of a nation. I am proud that DTU has continued to contribute significantly to expand the nation's global reach, enabling the pursuit of globalized education. The notable progress achieved by the University in academics, innovation, and research in the recent years has made it a powerhouse of academic success.

I am truly happy to observe the remarkable and steady progress of DTU in the recent years. The University has created an academic environment that fosters adaptable and progressive learning for students through diverse and innovative methods, encouraging self education and peer learning. The university's constructive view towards society and the nation at large is incredibly positive and will surely result in a technologically-robust India.

I extend my heartiest congratulations to the Delhi Technological University. I wish that the University continues to progress on the path of success, and continues to achieve outstanding milestones in the future.

**(Arvind Kejriwal)**



## ATISHI

Minister  
Education, Higher Education, TTE,  
Finance, Planning, Revenue, PWD, Water,  
Power, Services, Vigilance, Public Relations,  
Law, Justice & Legislative Affairs

## आतिशी

मंत्री

शिक्षा, उच्च शिक्षा, प्रशिक्षण एवं तकनीकी शिक्षा,  
वित्त, योजना, राजस्व, लोक निर्माण विभाग, जल,  
बिजली, सेवाएँ, सतर्कता, जनसंपर्क, कानून,  
न्याय और विधायी मामले



सत्यमेव जयते



GOVT. OF NCT OF DELHI

राष्ट्रीय राजधानी क्षेत्र, दिल्ली सरकार

DELHI SECTT, I.P. ESTATE,

दिल्ली सचिवालय, आई०पी०एस्टेट,

NEW DELHI-110002

नई दिल्ली-110002

Email : atishi.delhi@nic.in

D.O. No. Min (Edy.)/2024/512

Date : 15.01.2024

## MESSAGE

I am pleased to know that the Delhi Technological University is releasing the Annual Report 2022-2023 which covers the numerous achievements of the University in the last academic year. It makes me proud to mention that, with its rich legacy of 82 years, the Delhi Technological University has continued to be an emblem of academic and research excellence for the last many years.

The development of a nation can always be closely correlated to its technological expertise and I am proud that the Delhi Technological University has continued to provide talented and skilled engineers, scientists, academicians and managers to the country. I am happy to see how the young graduates of today are being trained at the University to be the problem identifiers and solution seekers of tomorrow's developed India. I particularly want to appreciate and applaud the significant contributions of the University in the areas of benchmarks for the nation and the world. The entire DTU community has worked hard to make an eminent space in the academic and research framework of India and I wish that the University continues to shine bright through its extraordinary contributions in science, technology, management and other allied areas.

I wish to congratulate the students, faculty members, administrators, and all stakeholders of the University for their achievements and for the publication of this Annual Report. I wish that the University continues to achieve many more accolades in the years to come.

(ATISHI)



**R. Alice Vaz, IAS**  
**Secretary**



राष्ट्रीय राजधानी क्षेत्र, दिल्ली सरकार  
Government of National Capital Territory, Delhi  
प्रशिक्षण एवं तकनीकी शिक्षा विभाग / उच्च शिक्षा  
Department of Training & Technical Education /  
Higher Education  
मुनि माया राम मार्ग, नजदीक टी.वी. टावर,  
Muni Maya Ram Marg, Near T.V. Tower  
पीतम पुरा, दिल्ली-110034  
Pitam Pura, Delhi-110034

Tel. No. 011-27322948  
Email : pstechedu@nic.in

D.O. No. : PS/Secy/TTE/2024/116

दिनांक :  
Date : 15.01.2024

### **MESSAGE**

I am pleased to know about the release of Delhi Technological University's Annual Report for the Academic Year 2022-2023, which is a witness of another year of unprecedented milestones and accomplishments of the University. This annual record of the University's achievements is a result of the unwavering dedication, determination, and incessant endeavours of the students, faculty, administration, management, and staff of the University.

Through the innumerable achievements of the University published in this book, I am privileged and proud to observe the transformation of every student at DTU into adept, competent, and holistic professionals despite encountering numerous challenges. I wish that each student continues to carry the lessons and accomplishments of this year forward, and uses them to shape their vision and make a meaningful impact on a technologically-improved world.

The progress of our nation and its development is our shared obligation. I trust that each one of us will go above and beyond, employing our passion, knowledge, and skills to achieve this collective goal.

I extend my best wishes to all the stakeholders of DTU who contributed in their own way towards this year's achievements. I wish for a bright future brimming with resounding success for the university's faculty members, staff, and students.

**(R. Alice Vaz)**





VISITOR

Her Excellency

**SMT. DROUPADI MURMU**

President of India



CHANCELLOR

**Shri Vinai Kumar Saxena**

Hon'ble Lt. Governor, Govt. of NCT, Delhi



**Shri Arvind Kejriwal**

Hon'ble Chief Minister  
Govt. of NCT, Delhi



**Ms. Atishi**

Hon'ble Minister for Education,  
Higher Education, TTE  
Govt. of NCT, Delhi



# OUR VISIONARY LEADERS

## HON'BLE CHANCELLORS



**SHRI TEJENDRA KHANNA**

July, 2009 to July, 2013



**SHRI NAJEEB JUNG**

July, 2013 to Dec. 2016



**SHRI ANIL BAIJAL**

Dec. 2016 to May, 2022



**SHRI VINAI KUMAR SAXENA**

May, 2022 to till date

## VICE CHANCELLORS



**Prof. P. B. Sharma**

July, 2009 to July, 2014



**Prof. Pankaj Jalote**

March, 2014 to Aug., 2014



**Prof. Pradeep Kumar**

Aug., 2014 to Sept., 2015



**Prof. Yogesh Singh**

Sept., 2015 to Oct., 2021



**Prof. J. P. Saini**

Oct., 2021 to Sept., 2023



**Prof. S. Indu**

Sept., 2023 to Nov., 2023



**Prof. Prateek Sharma**

Nov., 2023 to Till Date



# DELHI TECHNOLOGICAL UNIVERSITY

## Vision & Mission



### VISION

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



### MISSION

To establish centres of excellence in emerging areas of science, engineering, technology, management, and allied areas.

To foster an ecosystem for incubation, product development, transfer of technology, and entrepreneurship.

To create environment of collaboration experimentation, imagination and creativity.

To develop human potential with analytical abilities, ethics and integrity.

To provide environment friendly, reasonable and sustainable solutions for local and global needs.



# DELHI TECHNOLOGICAL UNIVERSITY

## Core Values & Quality Policy



### CORE VALUES

#### INTEGRITY

We do what we say through trust, transparency and honesty.

#### COMPASSION

We foster civilized mindset for kindness, consideration and benevolence.

#### COMMITMENT

We dedicate ourselves completely to all our endeavors.

#### CREATIVITY

We nurture innovation, imagination and ideation.

#### COLLABORATION

We promote team work through togetherness, harmony and acknowledgment.

#### INCLUSION

We embrace diversity with respect, acceptance and affirmation.



### QUALITY POLICY

*The University is committed to achieving global standards of excellence in the field of Science, Technology, Management and allied areas by disseminating knowledge through cutting-edge research, education and innovation. We adopt best practices to maintain high standards in the core and allied functions through continuous evaluation and improvement of our processes.*

# ROADMAP FOR ACHIEVING VISION



## Strengthening Education

Flexible Curriculum  
Outcome-based education  
Focus on research, innovation & Entrepreneurship  
Projects and Experiments based learning



## Product Development & Entrepreneurship

Incubation & Innovation Foundation  
Product Development & Entrepreneurship  
Track introduced in UG curriculum



## Collaboration & Creativity

Research Excellence Award & Grants for researchers  
MoUs with leading industries and universities  
Research Track introduced in UG & PG Curriculum



## Sustainability

Green Campus  
Zero Discharge Campus  
Sewerage Treatment Plant  
Solar Power Plant  
Organic to Waste Energy Plant



## Ethics & Integrity

FECs on values, ethics and sports  
Regular workshop on ethical values, professionalism  
Training programs for development of analytical abilities & critical thinking

# ACADEMIC PROGRAMS

## B. TECH PROGRAMS

- Chemical Engineering
- Mathematics and Computing
- Engineering Physics
- Biotechnology
- Civil Engineering
- Civil Engineering (Cont. Edu.)
- Computer Science & Engineering
- Software Engineering
- Electrical Engineering
- Electrical Engineering (Cont. Edu.)
- Electronics & Communication Engineering
- Electronics & Communication Engineering (Cont. Edu.)
- Environmental Engineering
- Information Technology
- Mechanical Engineering
- Production & Industrial Engineering
- Mechanical Engineering with Specialization in Automotive Engineering
- Mechanical Engineering (Cont. Edu.)

## M. TECH. PROGRAMS

- Bioinformatics
- Industrial Biotechnology
- Geotechnical Engineering
- Hydraulics & Water Resources Engineering
- Structural Engineering
- Geoinformatics
- Computer Science & Engineering
- Artificial Intelligence
- Software Engineering
- Data Science
- Information System
- Microwave & Optical Communication Engineering
- Signal Processing & Digital Design
- VLSI Design and Embedded System
- Control & Instrumentation
- Power System
- Power Electronics and Systems
- Environmental Engineering
- Production Engineering
- Thermal Engineering

## OTHERS PROGRAMS

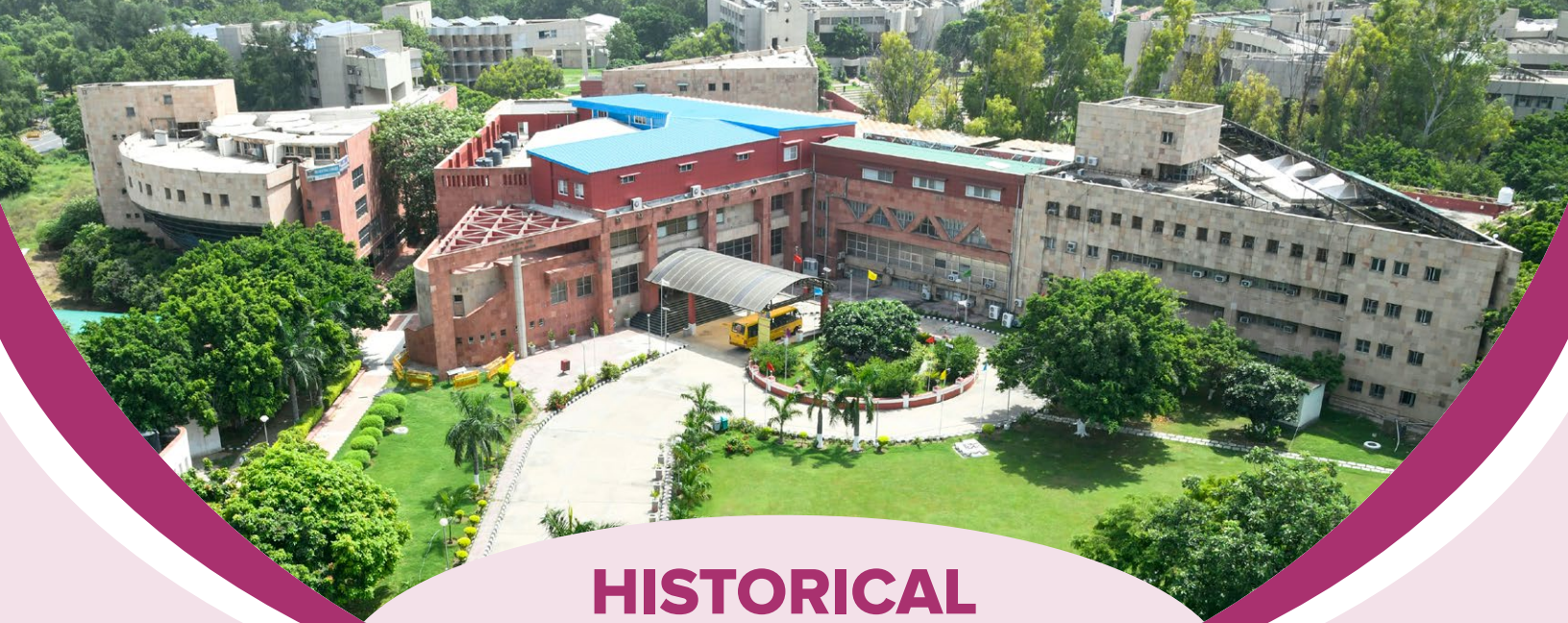
- BBA
- BA-Economics (Hons.)
- B. Des.
- MA-Economics
- M.Des. Iteration Design
- M.Des. Product Design
- M.Des. Visul Communication
- M.Des. Transportation and Service Design
- Master of Business Administration (MBA)
- MBA Innovation, Entrepreneurship and Venture Development
- MBA Business Analytics
- Master of Business Administration (USME)
- Master of Business Administration (Executive)
- M.Sc. Biotechnology
- M.Sc. Chemistry
- M.Sc. Mathematics
- M.Sc. Physics

# CONTENTS

Historical Background	i
DTU at A Glance	iii
Vice Chancellor's Report	v
<b>1. Organization and Administration</b>	<b>1</b>
1.1 University Court	1
1.2 Board of Management	2
1.3 Academic Council	3
1.4 Planning Board	4
1.5 Finance Committee	5
1.6 Internal Quality Assurance Cell	6
1.7 DTU Administration	8
<b>2. Academic and Non-Academic Staff</b>	<b>10</b>
2.1 Academic Staff	10
2.2 Non-Academic Staff (Regular)	11
2.3 Non-Academic Staff (Contractual)	13
<b>3. Academic Programmes</b>	<b>15</b>
3.1 Undergraduate Programme	15
3.2 Post Graduate Programme	16
3.3 Ph. D. Programmes	17
<b>4. Academic Departments</b>	<b>18</b>
4.1 Department of Applied Chemistry	18
4.2 Department of Applied Mathematics	24
4.3 Department of Applied Physics	30
4.4 Department of Biotechnology	38
4.5 Department of Civil Engineering	43
4.6 Department of Computer Science And Engineering	48
4.7 Department of Design	54
4.8 Delhi School of Management	58
4.9 Department of Electronics And Communication Engineering	62
4.10 Department of Electrical Engineering	74
4.11 Department of Environmental	81
4.12 Department of Humanities	86
4.13 Department of Information Technology	90
4.14 Department of Mechanical Engineering	97
4.15 Department of Software Engineering	104
4.16 University School of Management and Entrepreneurship	108

<b>5. Centres and Other Units</b>	<b>117</b>
5.1 DTU Innovation and Incubation Foundation (DTU IIF)	117
5.2 Human Resource Development Centre (HRDC)	125
5.3 Solar Energy Centre	129
5.4 Kitchen Waste Plant	130
5.5 Centre for Advanced Studies and Research in Automotive Engineering	131
5.6 TIFAC-CORE in Fiber Optics and Optical Communication	143
5.7 Centre for Industrial Design & Ergonomics (CIDE)	144
5.8 Intellectual Property Right (IPR) Cell	145
5.9 Multidisciplinary Centre for Geoinformatics (MCG)	147
5.10 Entrepreneurship Development Centre (EDC)	152
5.11 Equal Opportunity Cell	157
5.12 Centre of Excellence for Electric Vehicles and Related Technologies (CoE for EVRT)	158
5.13 Centre of Excellence for the Science of Happiness	161
<b>6. Alumni Contribution</b>	<b>163</b>
<b>7. Outreach and Extension Activities</b>	<b>167</b>
<b>8. International Affairs</b>	<b>169</b>
<b>9. Planning &amp; Consultancy (P&amp;C)</b>	<b>172</b>
<b>10. Industrial Research and Development (IRD)</b>	<b>179</b>
<b>11. Internal Quality Assurance Cell (IQAC)</b>	<b>182</b>
<b>12. Student Welfare, Societies and Extracurricular Activities</b>	<b>184</b>
<b>13. Central Facilities</b>	<b>197</b>
13.1 Library	197
13.2 Computer Centre	200
13.3 Department of Training and Placement	202
13.4 Sports and Gymnasium	207
13.5 Health Centre	208
13.6 Security and Transport Branch	211
13.7 Auditoriums	213
13.8 Store and Purchase	215
13.9 Engineering Cell & Estate Office	216
<b>14. Other Facilities</b>	<b>224</b>
14.1 DTU Studio	224
14.2 Guest House	234
<b>15. University Accounts</b>	<b>235</b>





## HISTORICAL BACKGROUND

Delhi Technological University (DTU) stands as a distinguished autonomous institution, dedicated to advancing education and research in the city of Delhi. The university's commitment extends across diverse domains, including science, engineering, technology, and management. With a focus on excellence, DTU ensures that students are immersed in the dynamic landscape of advancements in science, technology, and management. Engaging in a spectrum of activities, students delve into innovation, design, development, construction, production, management, and entrepreneurship. The university not only hones technical and managerial skills but also places significant emphasis on fostering soft skills, instilling a sense of national identity, boosting self-confidence, and nurturing leadership abilities. DTU's environment is designed to inspire creativity and innovative thinking, making it a hub for comprehensive academic and personal development.

DTU boasts a legacy spanning over eight decades, unfolding across 82 years of academic excellence. Its journey commenced in 1941 as Delhi Polytechnic, and in 1965, it evolved into Delhi College of Engineering. Witnessing another transformative phase in 2009, the Government of NCT of Delhi enacted Act 6 of 2009, reshaping it into the illustrious Delhi Technological University. This rich history is a testament to the institution's resilience, adaptability, and commitment to advancing education and technological prowess over the years.

The university has embraced a new chapter in its legacy with the establishment of the East Delhi Campus. Operational since the academic year 2017-2018, this vibrant campus in Vivek Vihar, Phase II, Delhi, signifies the university's commitment to excellence in management, entrepreneurship, research, and innovation. The campus stands as a testament to DTU's dedication to providing diverse and comprehensive educational opportunities, further enriching its contribution to the academic landscape.

DTU stands tall as a globally recognized institution, celebrated for its unwavering commitment to academic excellence, cutting-edge research, and transformative innovation. Offering a diverse range of interdisciplinary and industry-aligned courses at both undergraduate and postgraduate levels, DTU continually paves the way for student advancement. The university's dedication to fostering strong industry-academia partnerships and collaborating with leading global research institutions is evident in its progressive approach to education. With a distinguished alumni body making impactful contributions on national and international platforms, DTU's legacy is marked by awards, recognition, and distinction. The university's commitment to cultivating exceptional human talent and maintaining a technologically dynamic campus has solidified its reputation as the preferred destination for accomplished and highly ranked students nationwide. DTU's global standing reflects its illustrious past, expansive and internationally dispersed alumni network, and pivotal role in shaping technological advancements. This collective excellence cements DTU's position as one of the foremost technology universities, recognized for its enduring commitment to excellence.



# DTU AT A GLANCE



## RANKING

**29**  
NIRF RANKING



**801-1000**

Times Higher Education  
World University Ranking

**NBA ACCREDITED  
PROGRAMS**

**UG: 08**

**PG: 09**



Delhi Polytechnic  
(1941)



Delhi College of  
Engineering (1965)



Delhi Technological  
University (2009)

## STUDENT STRENGTH

**15517** | Total Students  
enrolled

**4444**  
Total students  
enrolled in 2022-23



**1061** | Post-graduate  
Students

**3260** | Undergraduate  
Students

**123** | Research Scholars

**3620**  
Total Degrees  
Awarded



**UG - 2649**

**PG - 824**

**PhD - 147**

## EVENTS

**E-Summit'22**  
14<sup>th</sup> - 15<sup>th</sup> Dec., 2022

**AARAMBH'22**  
16<sup>th</sup> - 18<sup>th</sup> Dec., 2022

**TECHWEEK'23**  
16<sup>th</sup> - 20<sup>th</sup> Jan., 2023

**YUVAAN'23**  
10<sup>th</sup> - 12<sup>th</sup> Feb., 2023

**ENGIFEST'23**  
17<sup>th</sup> - 19<sup>th</sup> Feb., 2023

## STAFF MEMBERS

**312**  
Faculty Members



**121** | Professor

**24** | Associate Professor

**159** | Assistant Professor

**08** | Others

**89** | Non-Academic Members

## RESEARCH ACHIEVEMENTS

Consultancy Projects - 64

Outlay - ₹9,27,04,195.28

Patents Granted - 12

Research Excellence Premier Award - 17

Commendable Award - 377

Award Money - ₹ 1.52 Cr.

## TRAINING AND PLACEMENT

**330+**  
RECRUITERS

**2088**  
JOB OFFERS

**82.05 LPA**  
HIGHEST PACKAGE

**16.69 LPA**  
AVG. PACKAGE

Academic Departments: **16**

Centres and other Units : **20**

Central Facilities: **12**





## *Vice Chancellor's* **REPORT »**

Delhi Technological University, formerly Delhi College of Engineering, has a rich legacy spanning over 82 years and is renowned globally for its excellence in technical education, research, and training. From its inception as Delhi Polytechnic to its evolution into Delhi College of Engineering and subsequent elevation to Delhi Technological University, the institution has achieved significant milestones. The autonomy granted to the university has been instrumental in fostering exploration and innovation. With notable progress across diverse disciplines, the university embodies a youthful and dynamic spirit in its relentless pursuit of academic excellence.

Boasting a magnificent history of over 82 years, the university has been steadfast in providing modern and adaptable educational infrastructure for technical education since its inception. As an academic institution, DTU, consistently contributes significantly to the fields of Science, Technology, and Management. The university has cultivated a robust network, connecting professionals and collectives from industrial, academic, and scientific sectors. Furthermore, the diverse research and academic landscape on campus have fostered collaborations with leading domestic and international universities and industries. This commitment underscores DTU's pivotal role in advancing education, research, and industry partnerships. DTU has a highly distinguished pool of world class engineers and technologists as its alma mater including Mr. Ashok K. Baweja (Head, QuEST Global Defence Engineering Services), Mr. Promod Haque, the world's most widely acclaimed Venture Capitalist, the renowned Techno-Entrepreneur based in Houston, Mr. Vinod Dham, the father of the Pentium Chip, Mr. Sanjay Nayar (CEO, Kohlberg Kravis Roberts India Advisors

Pvt. Ltd.), Mr. Raj Soin, the Avionics wizard of US & a top ranking Techno-Entrepreneur, Mr. Durgadas Agrawal, Dr. D. Yogi Goswami (Director, Clean Energy Research Center at the University of South Florida), to name a few.

Delhi Technological University has maintained an unwavering commitment to excellence in education, technology, research, and innovation; establishing a strong reputation both domestically and internationally. The university's distinguished academic ranking, aligning it with premier engineering institutions like IITs, underscores this dedication. Committed to preserving its esteemed standing, DTU implements initiatives to enhance and fortify undergraduate and postgraduate programs. The university's emphasis on research and development, coupled with the introduction of new postgraduate programs, ensures students are well-equipped to navigate market and industry trends. These qualities make DTU a highly sought-after choice for both undergraduate and postgraduate studies, attracting top performers from national exams such as JEE (Mains) and GATE.

Delhi Technological University has solidified its reputation by diligently addressing the needs of students, society, and industry. Our foremost goal is to shape students into knowledgeable, skilled, and inventive professionals dedicated to serving the nation. The work principles and technical excellence instilled in our students during their foundational years make them invaluable resources for the nation. We are committed to progress, aligning with the expanding skill sets and knowledge reservoirs in science and technology. With a growing student body, the university is strategically adjusting academic, technological, and administrative facets to accommodate this expansion. We see this as a significant opportunity to maintain our position as pioneers in engineering education. The undergraduate engineering curriculum is meticulously crafted to introduce heightened rigor, analytical reasoning, and adept problem-solving methodologies, presenting students with intellectual challenges that foster innovative and unconventional thinking. The university currently offers 14 B.Tech., 2 B.Tech. (Evening), B.Des., B.B.A., B.A. – Economics (Hons.), 13 M.Tech., 4 M.Sc., M.B.A., M.B.A. (Business Analytics), M.B.A. (Executive), M.A. (Economics), M.Des. (Interaction Design), M.Des. (Product Design), M.Des. (Visual communication), M.Des. (Transportation and service Design) and Ph.D. programs. In response to the burgeoning startup trend and the demand for young innovators and entrepreneurs, DTU has taken a strategic step by establishing its East Delhi Campus in Vivek Vihar. This expansion reflects the university's commitment to fostering an ecosystem that nurtures creativity, innovation, and entrepreneurship, providing students with opportunities to thrive in the dynamic landscape of emerging industries and startup ventures. The new programs added to the East Delhi campus are M.B.A. (Innovation, Entrepreneurship & Venture Development). DTU's nation-building approach involves cultivating young students into comprehensive and competent individuals. Through various initiatives, the university aims to amplify and refine students' entrepreneurial aptitude by providing them with state-of-the-art facilities and abundant opportunities. This strategic focus underscores DTU's commitment to preparing students to contribute meaningfully to the nation's growth and development.

## Admissions

For the academic year 2022-23, admissions to the B.Tech. Programs at Delhi Technological University were conducted through a collaborative counseling process called Joint

Admission Counselling (JAC). In addition to DTU, other participating institutions in JAC include: Netaji Subhash University of Technology (NSUT), Delhi, Indraprastha Institute of Information Technology (IIIT), Delhi and Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi. During the admission process for B. Tech., 2514 students were admitted through JAC. The admission for the category of PIO/FN/NRI were conducted through DASA and 112 students were admitted this year. A total of 10 students were admitted under PMSSS in B. Tech. 63 students took admissions through lateral entry and 77 students were admitted in B. Tech. under continuing education. A total of 180 students were admitted in BBA, 182 in BA-Economics (Hons.), and 122 in B. Des. Thus, in the academic year 2022-23, a total of 3260 undergraduate students were admitted. Whereas, 234 students were enrolled in M. Tech, 491 in MBA, 240 in M.Sc., 60 in M.A. (Economics) and 36 in M. Des. The total postgraduate enrolment for 2022-23 is 1061. While, 123 Ph.D. scholars were added to its research community. All Post graduate and Ph.D. students involved in research are given the opportunity to interact with the research community at the National and International level by providing funds to attend International/National Conferences by DTU.

## Training and Placement

DTU has maintained a steadfast commitment to providing the nation's leading industries with exceptional talent. In the current placement season, which kicked off in June 2022, DTU approached the process with enthusiasm and confidence. The university initiated the proceedings by inviting companies for pre-placement talks, where they could disclose the job profiles they were seeking. These talks served as a valuable forum for students to interact with and familiarize themselves with the prospective hiring entities and their requirements. The students from various branches and specializations, actively engaged in the placement proceedings. In the academic year 2022-23, a total of 330+ recruiters participated in campus placements and offered 2088 jobs to B.Tech., M.Tech., M.B.A, B.Tech.(Cont. EDU.), BBA/BAE, M.Sc., B.Des./M.Des. and Ph.D. programs. The highest salary package of ₹ 82.05 Lakhs was offered for the academic year 2022-23. The average package for this academic year was ₹ 16.69 LPA. Various students received internship and field training offers with maximum stipend of ₹ 2 Lakhs per month. In addition, various other students who passed out of DTU are presently studying at various prestigious National and International institutes such as IIMs, IITs, Georgia Institute of Technology, University of Pennsylvania, Columbia University, Worcester Polytechnic Institute, Duke University, Purdue University and Technical University of Munich to name a few.

## Continuing Education and Outreach Program

There is a notable interest from individuals in industry, academia, and our own faculty towards initiatives such as the Continuing Education Programme (CEP), Quality Improvement Programme (QIP), Curriculum Development Programme (CDP) and Faculty Development Programme (FDP). Specifically designed for working professionals aiming to enhance their skill sets, CEP courses align with the dynamic industry landscape. FDP's another series of programs, enjoy substantial popularity among faculty members and emerging academics, contributing to elevated interaction levels between industry experts and educators. These initiatives underscore DTU's commitment to fostering continuous learning, professional development, and collaborative engagement between academia and industry.

## Faculty Centric Policies

Faculty members at DTU benefit from the Professional Development Fund Grant, starting with an initial allocation of ₹ 2 Lakhs for facility establishment and subsequent allocations of ₹ 2 Lakhs every three years to support their participation in conferences, workshops, and training programs. The consistent implementation of the Career Advancement Scheme has resulted in numerous promotions for faculty members. Recognizing Excellence in Teaching, several faculty members have been honored with Research Excellence Awards. The university annually presents Research awards in three distinct categories (Outstanding, Premier and Commendable) to promote and recognize research efforts. These initiatives underline DTU's commitment to fostering continuous professional development and acknowledging outstanding contributions in both teaching and research.

## DTU Innovation and Incubation Foundation

In response to the industries' increasing emphasis on intellectual property and innovative skill sets, DTU has established the DTU Innovation and Incubation Foundation (IIF). This foundation is committed to creating an environment conducive to the development of startups, entrepreneurial initiatives, and the creation of intellectual property. The overarching goal is to stimulate job creation, generate value, and contribute to positive social transformation through fostering innovation and entrepreneurship within the university community. Currently, DTU-IIF is incubating 25 start-ups, with an additional 20 start-ups in the pre-incubation phase, indicating a robust entrepreneurial ecosystem on campus. 12 startups are in the revenue stage and have earned a revenue of ₹ 15 Cr. in FY 2022-23. DTU-IIF startups raised ₹ 25 Cr. from external investors. 2 teams of DTU won ₹1.5 Cr. in iDEX (Defence India Startup Challenge) in 2022.

## Outreach and Extension

DTU has established two centers—the Center for Outreach & Extension Activities and the Center for Human Resource Development—in alignment with its vision to execute various initiatives centered around social entrepreneurship. These initiatives encompass a wide range of activities, including digital literacy, e-waste collection, water filtration unit installation, health camps, blood donation drives, organ donation awareness campaigns, clothing donation initiatives, awareness programs addressing depression and thalassemia, training workshops for survivors of acid attacks, skill development programs for women, and efforts towards promoting cleanliness. Additionally, the National Service Scheme (NSS) at DTU facilitates enhanced student engagement with the community, contributing to a deeper reservoir of ideas and insights, forging a meaningful connection between the campus and the community. DTU has received ₹ 2 Cr. award money from the Ms. Paytm (Foundation) for its "Lab on Wheel" project and creation of training and testing facilities in the field of electric vehicles under COE for EVRT. The bus travels to different schools under the Government of NCT of Delhi, offering basic computer education through DTU's certification-based computer courses.

## Cultural Sports and Technical Festivals

In addition to its robust academic and research endeavors, DTU fosters a vibrant culture of sports and technical activities. The university regularly organizes multiple events to actively engage students in various extracurricular pursuits, contributing to a dynamic

and well-rounded campus life. The Entrepreneurship Cell of DTU organizes its annual "E-Summit" sponsored by Havells, Bosch, Paxful, Hell Energy etc.. The event gives an opportunity to nascent start-ups to seek advice and guidance from like-minded individuals in the business world. This helps them lay a strong foundation to build upon for their future ventures. The Cultural Council of DTU organized "Engifest" from 17<sup>th</sup> to 19<sup>th</sup>, Feb 2023 to foster different cultural activities and collaboration among the students. Also, "Aarambh" was a 3-days orientation programme, organized by the Cultural Council during 16<sup>th</sup> – 18<sup>th</sup> December, 2022 for newly admitted students to make them familiar with campus services and their ease transition into the university. Further, 3-days "Yuvaan: Literature and Film Festival" was organized during 10<sup>th</sup> – 12<sup>th</sup> February, 2023. Additionally, IEEE-DTU organized the "IEEE DTU Techweek'23" during 16<sup>th</sup> - 20<sup>th</sup> January, 2023, wherein numerous technical workshops and hands-on experience of project making is emphasized for students of DTU & other universities. Physical fitness is essential for the overall personality development. The busy student life and the hectic schedules tend to shift their focus away from physical fitness. Therefore, DTU regularly organizes different sports event to charge up the students and make them involved in different sports activities.

## DTU Rankings

The NIRF Engineering rankings placed DTU at the 29<sup>th</sup> position in 2023. DTU is placed in the bracket of (801- 1000) in Times Higher Education World University Ranking, 2023 and 2<sup>nd</sup> in ARIIA ranking (Government University category). The university is accredited with "A" grade by NAAC. Additionally, DTU is committed to maintain the quality for different programs, thereby, total 8 UG and 9 PG programs (3 UG and 2 PG during 2022-23) are accredited through National Board of Accreditation (NBA). The university through Internal Quality Assurance Cell (IQAC), has initiated many activities for quality improvements such as ISO 9001:2015 certification, regular audit of processes as per standing operating procedures, Question paper standardization and audit, feedback collection and analysis, green audit of the campus, ERP & e-governance application in the processes etc.

DTU extends heartfelt gratitude to GNCTD, MHRD, DST, AICTE, UGC, CSIR, DBT, and DRDO for their enduring financial support. Special thanks to dedicated faculty, staff, students, and alumni, pivotal in establishing DTU as a premier university. Consistently contributing to top-notch technical education, DTU is committed to surpassing its achievements. Deep thanks to Honorable Chancellor, Shri Vinai Kumar Saxena, Lieutenant Governor of NCT of Delhi, Honorable Chief Minister, Shri Arvind Kejriwal, and Honorable Education Minister of Delhi, Ms. Atishi for unwavering support. Sincere appreciation to Chief Secretary, Principal Secretary (Finance), Principal Secretary (Higher Education), and DTTE Director for instrumental support. Gratitude to esteemed members of the Board of Management, Finance Committee, Planning Board, Academic Council, and other committees for remarkable contributions. Applauding the IQAC editorial team for dedicated efforts in compiling this report.



Prof. Prateek Sharma  
Vice Chancellor



Delhi Technological University

# 9<sup>th</sup> Convocation

Presided over by

**Shri Vinai Kumar Saxena**

Hon'ble Lieutenant Governor, Delhi and Chancellor, DTU

Convocation Address by

**Prof. Sanjay Govind Dhande**

Former Director, IIT K

Special Guest

**Prof. Ganesh**

Prom

Artea M

stone

2022

Am

75  
Azadi Ka  
Amrit Mahotsav



© DTU studio

# 1. Organization and Administration

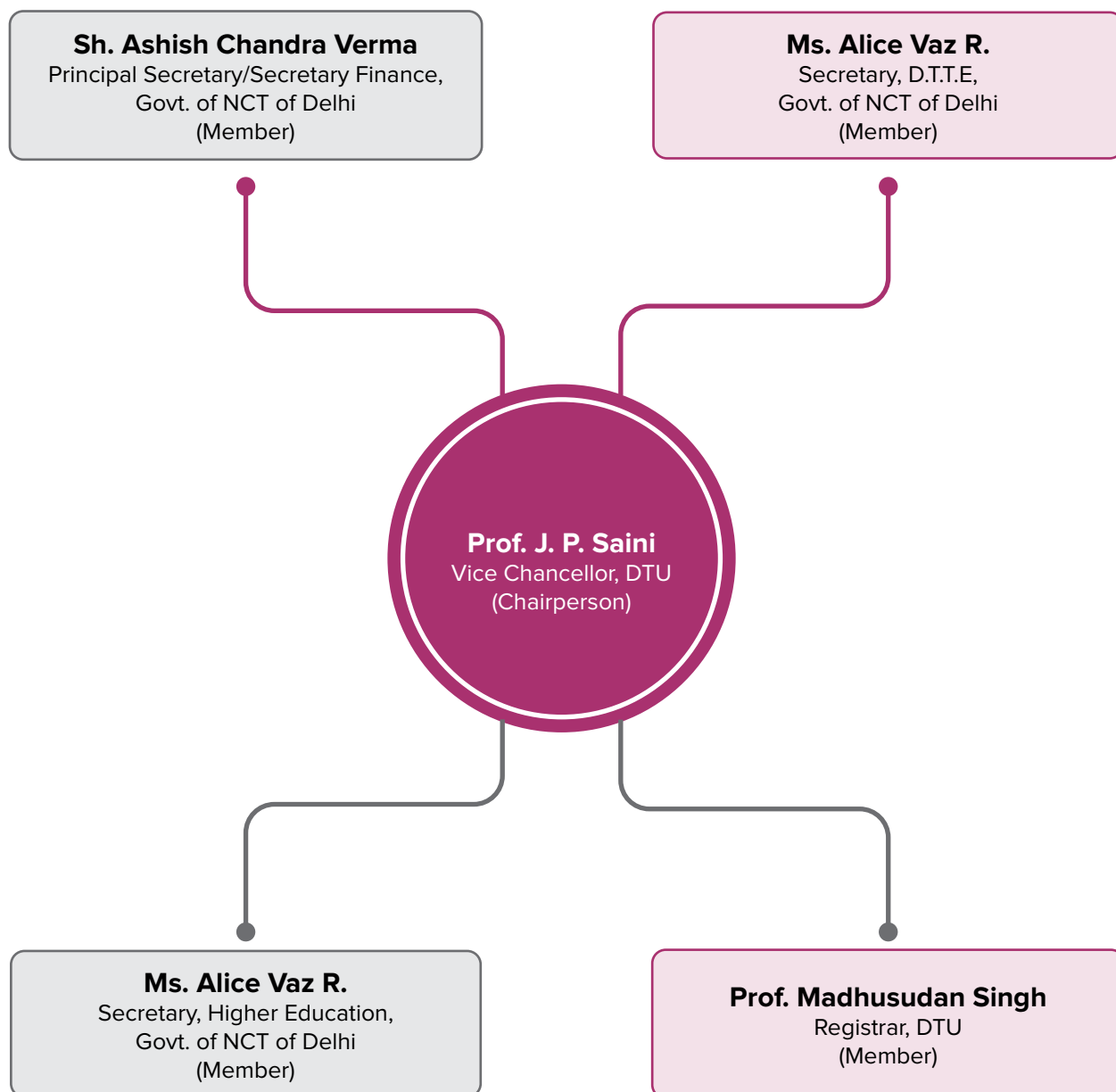
## 1.1 University Court

The University Court reviews, from time to time, the broad policies and programmes of the University and suggest measures for the improvement and development of the University. The Court also considers the annual report, annual accounts of the University and the report of its auditors on such accounts.



## 1.2 Board of Management

The Board of Management is the principal executive body of the University and, have all powers necessary to administer the University subject to the provisions of the Act and the Statutes of the University. It also makes ordinances and regulations for appointments, finances, accounts and investments and is empowered to create posts in the University, determine salary structure and terms & conditions of different cadres of employees.



### 1.3 Academic Council

The Academic Council is the principal academic body of the University. It regulates the maintenance of standards of instruction, education, research and examination within the University and exercise such other powers and perform such other duties as may be conferred or imposed upon it by the Act and Statutes. The Academic Council has the right to advise the Board of Management on all academic matters.



## 1.4 Planning Board

The Planning Board is the principal planning body of the University. It designs and formulates appropriate plans for development and expansion of the University. It has right to advise the Board of Management and the Academic Council on any matter which it may deem necessary for the fulfilment of the objects of the University.

### **Prof. J. P. Saini**

Vice Chancellor, DTU  
(Chairperson)

### **Prof. J. P. Saini**

Vice Chancellor, NSUT  
(Member)

### **Prof. Anu Singh Lather**

Vice Chancellor, AU, Delhi  
(Member)

### **Prof. Neharika Vohra**

Former Vice Chancellor, DSEU, Dwarka, Delhi  
(Member)

### **Prof. I. K. Bhat**

Vice Chancellor, MRU, Faridabad  
(Member)

### **Prof. M. N. Doja**

Director, IIT, Sonapat  
(Member)

### **Prof. Rajive Kumar**

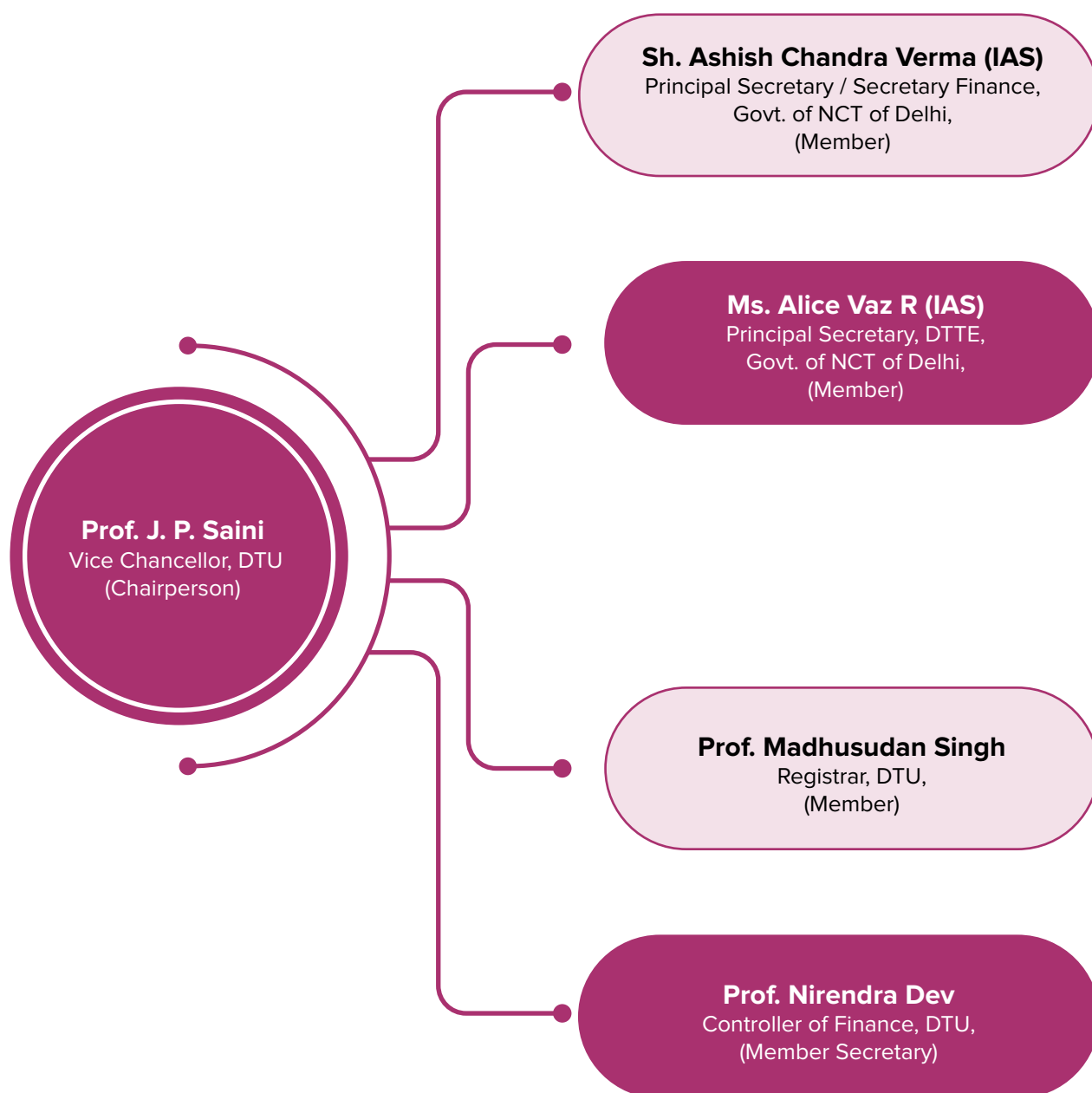
Member Secretary, AICTE  
(Member)

### **Prof. Madhusudan Singh**

Registrar, DTU  
(Member Secretary)

## 1.5 Finance Committee

The Finance Committee develop financial policies of the University and to oversees the revenues and expenditures of the University (It recommendations on generating revenue through the activities of University and these recommendations are placed before the Board of Management for a decision). The Finance Committee examines and scrutinizes the annual budget of the University, makes its recommendations on financial matters to the Board of Management. All proposals relating to revision of pay, up-gradation of the pay-scales and those items which are not included in the budget, are examined by the Finance Committee.



## 1.6 Internal Quality Assurance Cell

Delhi Technological University (DTU) has established the Internal Quality Assurance Cell (IQAC) for maintaining the momentum of quality consciousness as an internal mechanism for sustenance, assurance and enhancement of the quality culture of education. DTU-IQAC, in fact, is conceived as a mechanism to build and ensure a quality culture at the University level to meet the diverse needs of the stakeholders. The DTU-IQAC is meant for planning, guiding and monitoring Quality Assurance and Quality Enhancement activities of the University. The IQAC channelizes and systematizes the efforts and measures of the University towards academic excellence and is a facilitative and participative organ of the University. It is a driving force for ushering in quality by working out intervention strategies to remove deficiencies and enhance qualities.

### CHAIRPERSON

Prof. J. P. Saini  
Vice Chancellor, DTU

### Teachers to represent all level-

#### MEMBER

- Prof. Nirendra Dev, Professor CED
- Prof. Rajeshwari Pandey, Professor ECE
- Prof. Rinku Sharma, Professor Applied Physics
- Prof. Amit Mookerjee, Professor USME
- Prof. Poornima Mittal, Professor ECE
- Prof. Anil Kumar, Professor Applied Chemistry
- Dr. Shilpa Pal, Associate Professor, CED
- Mr. Yashdeep Singh, Assistant Professor, DSM

### One member from the Management –

#### MEMBER

- Dean, DTU as nominated in BOM

### Few Senior Administrative Officers –

#### MEMBER

- Prof. Madhusudan Singh, Registrar, DTU
- Dr. Kamal Pathak, COE, DTU
- Prof. Nirendra Dev, COF, DTU
- Sh. Pradeep Tiotia, Office in charge S & P, DTU

### One Nominee each from local Society, Students and Alumni

#### MEMBER

- Sh. Arun Gupta, Alumni
- Mr. Krish Aggarwal, ECE Department-Student
- Sh. Arun Aggarwal, local society

### One Nominee each from Employers / Industrialists/Stakeholders –

#### MEMBER

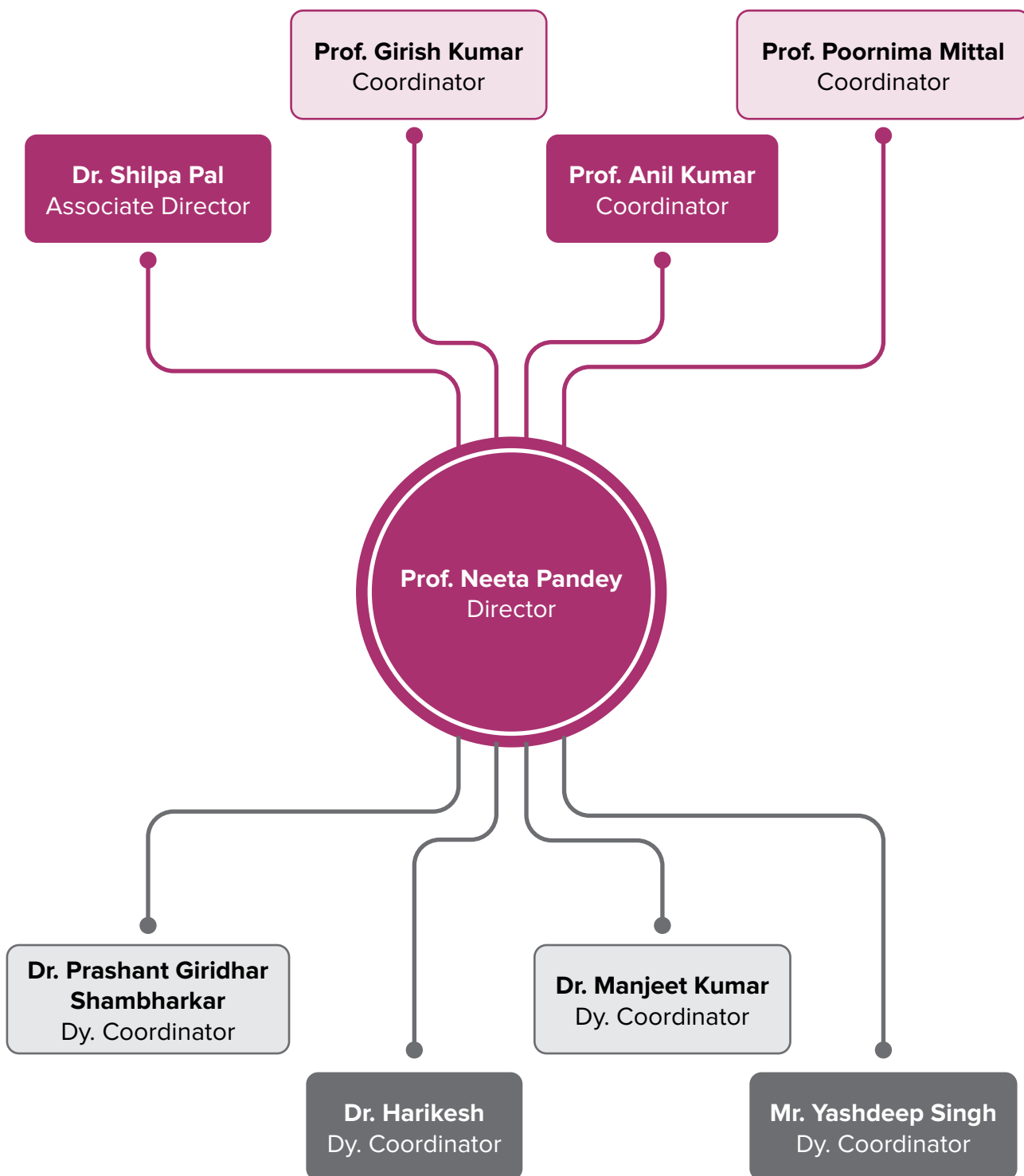
- Sh. Sunil Singh Solanki, Asia Pacific Japan Head- SAP Cloud Platform
- Sh. Piyush C. Ojha, Vice President, Synergy Systems and Solutions, Noida, U.P
- Sh. Parmod Kumar Panda, ITS Director, Telecom Engineering Centre, Department of Telecommunication, Ministry of Communications & IT and Railways, Govt. of India.

### One of the Senior Teachers as the coordinator/Director of the IQAC -

#### MEMBER SECRETARY

- Prof. Neeta Pandey, Director IQAC

## IQAC CORE TEAM MEMBERS



## 1.7 DTU Administration

**Prof. J. P. Saini**  
Vice-Chancellor



**Prof. Madhusudan Singh**  
Registrar

### DEANS



**Prof. Rinku Sharma**  
Dean, Academics (PG)



**Prof. Rajeshwari Pandey**  
Dean, Academics (UG)



**Prof. S. Indu**  
Dean, Student Welfare



**Prof. Pragati Kumar**  
Dean, Industrial Research  
Development



**Prof. Rajesh Rohilla**  
Dean, Alumni Affairs



**Prof. Pravir Kumar**  
Dean, International  
Affairs



**Prof. Amit Kumar Srivastava**  
Dean, Outreach & Extension  
Activities



**Prof. Rajiv Choudhary**  
Dean, Student Discipline



**Prof. Nirendra Dev**  
Dean, Planning &  
Consultancy

### DIRECTORS



**Prof. Dinesh Kumar**  
Recruitment Cell



**Prof. Neeta Pandey**  
IQAC



**Prof. S. Anbu Kumar**  
HRDC

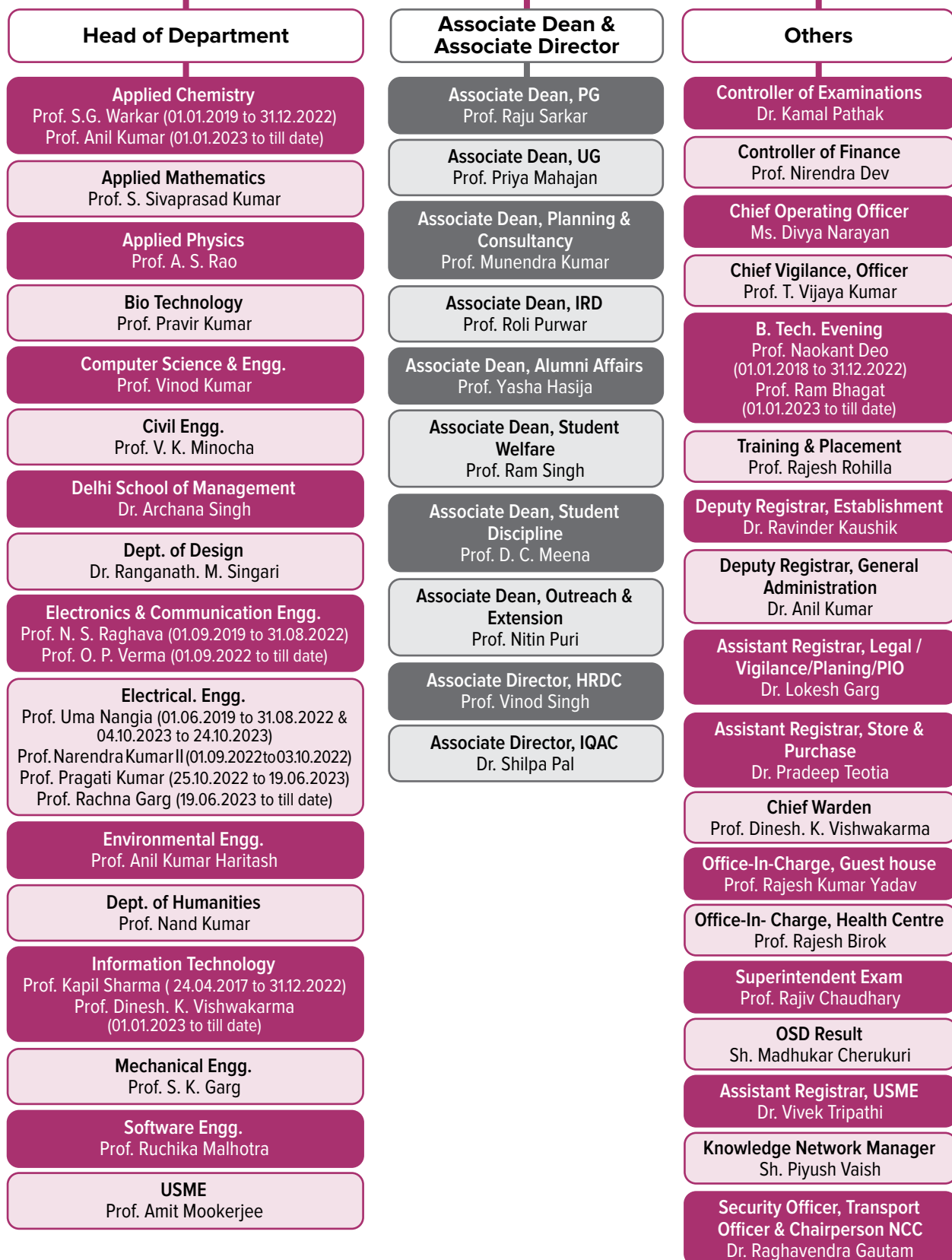


**Prof. Rachana Garg**  
EOC



**Prof. R. C. Singh**  
Chairmen, Sports Council

## ADMINISTRATION



## 2. Academic and Non-Academic Staff

### 2.1 Academic Staff

S. No.	Department	Prof.	Adjunct/ Honorary/ Emeritus Professor	Assoc. Prof.	Asstt. Prof.	Programmer/ Design Educator / Foreman Instructor/ Visiting Faculty	Total
1.	Applied Chemistry	7	1	-	6	-	14
2.	Applied Mathematics	8	-	-	12	-	20
3.	Applied Physics	7	-	-	13	-	20
4.	Biotechnology	3	-	-	2	-	5
7	Civil Engineering	15	1	6	4	-	26
6.	Computer Science and Engineering	6	1	1	14	1	23
7.	Department of Design	1	1	-	5	2	9
8.	Delhi School of Management	2	1	2	9	-	14
9.	Electronics & Communication Engineering	13	-	1	31	-	45
10.	Electrical Engineering	22	2	3	22	-	49
11.	Environmental Engineering	2	-	-	4	-	6
12.	Humanities	2	-	2	1	-	5
13	Information Technology	3	-	1	7	-	11
14.	Mechanical Engineering	20	-	7	8	2	37
15.	Department of Software Engineering	1	-	-	7	-	8
16	University School of Management & Entrepreneurship	1	1	1	14	3	20
<b>Total</b>		<b>113</b>	<b>8</b>	<b>24</b>	<b>159</b>	<b>8</b>	<b>312</b>

## 2.2 Non-Academic Staff (Regular)

S. No.	Post	Total Filled Post	Present Posting	Remarks
1	COE	1	Examination Branch	Regular
2	Chief Operating Officer	1	Computer Centre	Regular
3	Deputy Registrar	2	Establishment Branch	Regular
			General Administration	Regular
4	Deputy Control of Account (DCA)	1	Account Branch	Deputation
5	Sr. Account Officer	2	Account Branch	Deputation
6	EDP Manager	1	Result Section	Regular
7	KNM	1	Computer Centre	Regular
8	System Manager	1	Computer Centre	Regular
9	Assistant Registrar	3	East Campus	Regular
			Legal Branch, Planning Branch, Vigilance Branch, PGMS And RTI Cell	Regular
			Store & Purchase	Deputation
10	AAO	1	Account Branch	Deputation
11	Assistant Programmer	3	CSE-1	Regular
			Computer Centre-2	Regular
12	Chief Store Keeper	1	Store, DTU	Regular
13	Programmer	1	CSE	Regular
14	Section Officer	5	Establishment Branch-1	Regular
			Store & Purchase-1	Regular
			Establishment Branch-1	Deputation
			Account Branch -1	Deputation
			East Campus-1	Deputation
15	SOA	5	Legal & Vigilance-1	Regular
			Training & Placement-1	Regular
			Academic-Pg-1	Deputation
			Academic-Ug-1	Deputation
			Recruitment -1	Deputation
16	Draughtsman	1	Mechanical Engg.	Regular
17	Foreman	7	Electrical Engineering-2	Regular
			ECE-1	Regular
			Mechanical Engg. -4	Regular

18	Sr. Mech.	15	Applied Physics-2	Regular
			Civil Engg.-1	Regular
			Electrical Engg.-1	Regular
			ECE-1	Regular
			Env. Engg.-1	Regular
			Mech. Engg.-9	Regular
19	Office Assistant	1	Establishment Branch	Regular
20	Jr. Office Assistant	3	Pension Cell-1	Regular
			East Campus-1	Regular
			Accounts Branch-1	Regular
21	Junior Engineer (C)	1	Engineering Cell	Regular
22	Junior Mechanic	7	Mechanical Deptt. -6	Regular
			Electrical Engg.-1	Regular
23	Electrician	1	Engineering Cell	Regular
24	Multi Tasking Staff	3	ECE-1	Regular
			DTTE on Diverted Capacity-1	Regular
			Project Office-1	Regular
25	Gest. Operator	1	Gen. Admn.	Regular
26	Stenographer Grade-li	1	Dean (Academic Pg)	Regular
27	Stenographer Grade-lii	4	Examination Branch-1	Regular
			Hostel Office-1	Regular
			VC Office-1	Regular
			Lien-1	Regular
28	Technical Asstt.	3	Biotechnology-1	Regular
			ECE-1	Regular
			Applied Chemistry-1	Regular
29	Driver	1	Personal Branch Of VC, DTU	Regular
30	Counter Assistant	3	East Campus-1	Regular
			Central Library-2	Regular
31	Chowkidar	1	Accounts Branch	Regular
32	Daftri	1	Accounts Branch	Regular
33	Peon	1	Central Library	Regular
34	Library Attendt.	1	Central Library	Regular
35	Safai Karamchari	4	Applied Chemistry-1	Regular
			Hostel Office-1	Regular
			CSE-1	Regular
			Mech. Engg.-1	Regular
	Total	89		

## 2.3 Non-Academic Staff (Contractual)

S. No.	Post	Total Filled Post	Present Posting
1	PS to VC	1	Dean, OEA
2	Sr. Office Assistant	2	Establishment -1 Exam Branch -1
3	Stenographer	1	Pr. Branch of Registrar
4	Office Assistant	2	Electrical Engineering -1 Establishment -1
5	Jr. Office Assistant	29	Exam Branch-1 Mechanical Engineering.-1 Environmental Engineering-1 VC Office-1 Hostel Office-1 RTI Cell-1 Result Section-2 Dean SW-1 Planning Branch-1 Academic PG-2 Establishment-3 General Administration -1 Project Office-1 Accounts Branch-4 Pr. Branch of Registrar-1 Academic UG-1 Dept. of Design-1 Dean UG-1 Vigilance-1 Humanities-1 Dept. Software Engineering -1 Computer Centre -1
6	Assistant Librarian	1	Library
7	Counter Assistant	2	Library
8	Asst. Store Keeper	2	Store & Purchase
9	Caretaker	1	Project Office
10	Driver	2	Transport Office

11	Asst. Programmer	3	Result Section -1
			Computer Centre -1
			Applied Mathematics -1
12	Network Assistant	2	Computer Centre
13	Technical Assistant	4	Electronics and Communication Engineering -1
			Information T -1
			Computer Science & Engineering -1
			Computer Science & Engineering -1
14	Jr Technical Asst.	16	Electrical Engineering -7
			Computer Centre -1
			Software Engineering -2
			Engineering Physics -3
			Mechanical Engineering -3
15	Senior Mechanic	5	Applied Chemistry -1
			Mechanical Engineering -2
			Biotechnology -2
16	Sr. Mechanic Gp-I	6	Electrical Engineering -1
			Mechanical Engineering -5
17	Sr. Mechanic Gp-II	3	Mechanical Engineering -2
			Electronics and Communication Engineering
18	Sr. Mechanic Gp-III	1	Mechanical Engineering
19	Sr. Mechanic Gp-V	3	Mechanical Engineering
20	Sr. Mechanic Gp-VI	1	Mechanical Engineering
21	Junior Mechanic	6	Applied Chemistry -2
			Applied Physics -1
			Biotechnology -1
			Environmental Engineering -2
22	Jr Mechanic Gp-I	1	Electrical Engineering.
23	Technical Instructor	1	Electronics and Communication Engineering
24	JE (Electrical)	1	Engineering Cell
25	JE (Civil)	1	Engineering Cell
26	Electrician	1	Engineering Cell
27	Cook	1	Guest House
<b>Total</b>		<b>99</b>	

### 3. Academic Programmes

#### 3.1 Undergraduate Programme

S. No.	Department	B. Tech. Programme	Duration	Sanctioned Intake	Total No. Admitted
1	Applied Chemistry	Chemical Engineering	4 years	76	76
2	Applied Mathematics	Mathematics and Computing	4 years	181	181
3	Applied Physics	Engineering Physics	4 years	116	116
4	Biotechnology	Biotechnology	4 years	76	76
5	Civil Engineering	Civil Engineering	4 years	151	151
		Civil Engineering (Cont. Edu.)	4 years	60	19
6	Computer Science & Engineering	Computer Engineering	4 years	481	481
7	Electrical Engineering	Electrical Engineering	4 years	301	301
		Electrical Engineering (Cont. Edu.)	4 years	60	58
8	Electronics & Communication Engineering	Electronics & Communication Engineering	4 years	241	241
9	Environmental Engineering	Environmental Engineering	4 years	76	76
10	Information Technology	Information Technology	4 years	181	181
11	Mechanical Engineering	Mechanical Engineering	4 years	301	301
		Production & Industrial Engineering	4 years	76	76
		Mechanical Engineering with specialization in Automotive Engineering	4 years	76	76
12	Software Engineering	Software Engineering	4 years	181	181
<b>Total</b>				<b>2634</b>	<b>2591</b>
B.Tech Lateral Entry			3 Years	96	63
Total NRI Candidates				373	112
Total PMSSS Candidates				10	10
<b>Grand Total</b>				<b>3113</b>	<b>2776</b>

S. No.	Department	Programme	Duration	Sanctioned Intake	Total No. Admitted
1	University School of Management & Entrepreneurship (USME)	BBA	3 Years	182+18 (FN)	180
		BA-Economics (Hons.)	3 Years	182+18 (FN)	182
2	Department of Design	B. Des.	4 Years	123+18 (FN)	122
<b>Total</b>				<b>541</b>	<b>484</b>

## 3.2 Post Graduate Programme

### Master of Technology

S. No.	Department	M. Tech. Programme	Duration	Sanctioned Intake	Total No. Admitted
1	Biotechnology	Bioinformatics	2 years	25+5	07
2	Computer Science & Engineering	Computer Science & Engineering	2 years	30+5	30
		Artificial Intelligence	2 years	30+5	30
3	Civil Engineering	Structural Engineering	2 years	25+5	23
4	Information Technology	Information System	2 years	25+5	23
5	Electronics & Communication Engineering	Signal Processing & Digital Design	2 years	25+5	10
		VLSI Design and Embedded System	2 years	25+5	23
6	Electrical Engineering	Control & Instrumentation	2 years	25+5	9
		Power Electronics and Systems	2 years	30+5	15
7	Environmental Engineering	Environmental Engineering	2 years	25+5	9
8	Mechanical Engineering	Industrial Engineering and Management	2 years	30+5	13
9	Software Engineering	Software Engineering	2 years	25+5	22
		Data Science	2 years	30+5	20
Total				652+125	234

### Management Programmes

S. No.	Department	MBA Programme	Duration	Sanctioned Intake	Total No. Admitted
1	USME	MBA innovation, Entrepreneurship and Venture Development	2 years	40	12
		MBA Business Analytics	2 years	40	28
		Master of Business Administration	2 years	120	117
Total				240	157

S. No.	Department	MBA Programme	Duration	Sanctioned Intake	Total No. Admitted
2	DSM	Master of Business Administration (Executive)	2 years	75	27
		Master of Business Administration	2 years	150	150
Total				465	334

### M.Sc. Programme

S. No.	Programme	M.Sc. Department	Duration	Sanctioned Intake	Total No. Admitted
1	M.Sc.	M.Sc. Chemistry	2 years	60	60
		M.Sc. Mathematics	2 years	60	60
		M.Sc. Physics	2 years	60	60
		M.Sc. Biotechnology	2 years	60	60
Total				240	240

**MA (Economics) Programme 2022-23**

S. No.	Programme	MA Department	Duration	Sanctioned Intake	Total No. Admitted
1	MA	MA (Economics)	2 years	60	60
<b>Total</b>				<b>60</b>	<b>60</b>

**Master of Design 2022-23**

S. No.	Department	M. Design	Duration	Sanctioned Intake	Total No. Admitted
1	M. Design	Interaction Design	2 years	15	12
		Product Design	2 years	15	8
		Visul Communication	2 years	15	11
		Transportation and service Design	2 years	15	5
Total				60	36

**3.3 Ph. D. Programmes**

S. No.	No. of Students Department Wise Data (August 2022 to July 2023)		
1	Applied Chemistry	Chemical Engineering (CH)	3
		Chemistry (AC)	4
2	Applied Mathematics	Mathematics (AM)	5
3	Applied Physics	Physics (AP)	7
4	Biotechnology (BT)	Biotechnology (BT)	7
5	Civil Engineering (CE)	Civil Engineering (CCE)	11
6	Computer Science and Engineering (CSE)	Computer Science and Engineering (COE)	8
7	Electrical Engineering (EE)	Electrical Engineering (CEE)	13
8	Electronics and Communication Engineering (ECE)	Electronics and Communication Engineering (CECE)	13
9	Mechanical Engineering (ME)	Mechanical Engineering (CME)	18
10	Environmental Engineering (ENE)	Environmental Engineering (ENE)	5
11	Humanities (HUM)	Humanities (HUM)	2
12	Information Technology (IT)	Information Technology (IT)	11
13	Delhi School of Management (DSM)	Delhi School of Management (DSM)	5
14	University School of Management and Entrepreneurship (USME)	University School of Management and Entrepreneurship USME	2
15	USME (IEV)	USME (IEV)	3
16	USME-Economics	USME-Economics	1
17	Department of Design	Department of Design	3
		Computer Science	2
<b>Grand Total</b>			<b>123</b>

## 4. Academic Departments



### 4.1 DEPARTMENT OF APPLIED CHEMISTRY

**Prof. Anil Kumar**  
HoD

#### ACADEMIC PROGRAMMES

**B.Tech.**  
**(Chemical Engineering)**  
Intake: **76**  
Admitted: **76**

**M.Sc.**  
**(Chemistry)**  
Intake: **60**  
Admitted: **60**

**Ph.D.**  
**(Chemistry):**  
**4**

**Ph.D.**  
**(Chemical Engineering):**  
**3**

#### SALIENT FEATURES

The department aims to provide state-of-art knowledge and practical skills to the UG & PG students in the diverse areas of Applied Chemistry, Chemical Engineering, and Polymer Technology. Facilitating R&D activities at UG and PG levels is the prime concern. Innovations in chemistry, chemical and polymers are focused to provide green technologies, product to global industries and design of novel separation processes. New molecules for improving human health and medical care, hydrogels for improved agri-products, innovative polyfibrils for clean water, conducting polymers, nano-embedded and green polymers for food-packaging are some of the main areas in which PG and doctoral students are excelling beyond imagination.

#### LABORATORIES

The department has well established laboratories, such as; Applied Chemistry Lab, Polymer Chemistry Lab, Polymer Testing & Characterization Lab, Polymer Processing Lab, Chemical Technology Lab, Chemical Reaction Engineering Lab, Instrumentation Lab, Heat and Mass Transfer Lab, Fibre Technology Lab, Computer Aided Design, Innovation Lab, and five Research Labs. All UG/ PG students and Research Scholars carry out their research/projects in these laboratories jointly with experts from industry and teachers of the department.

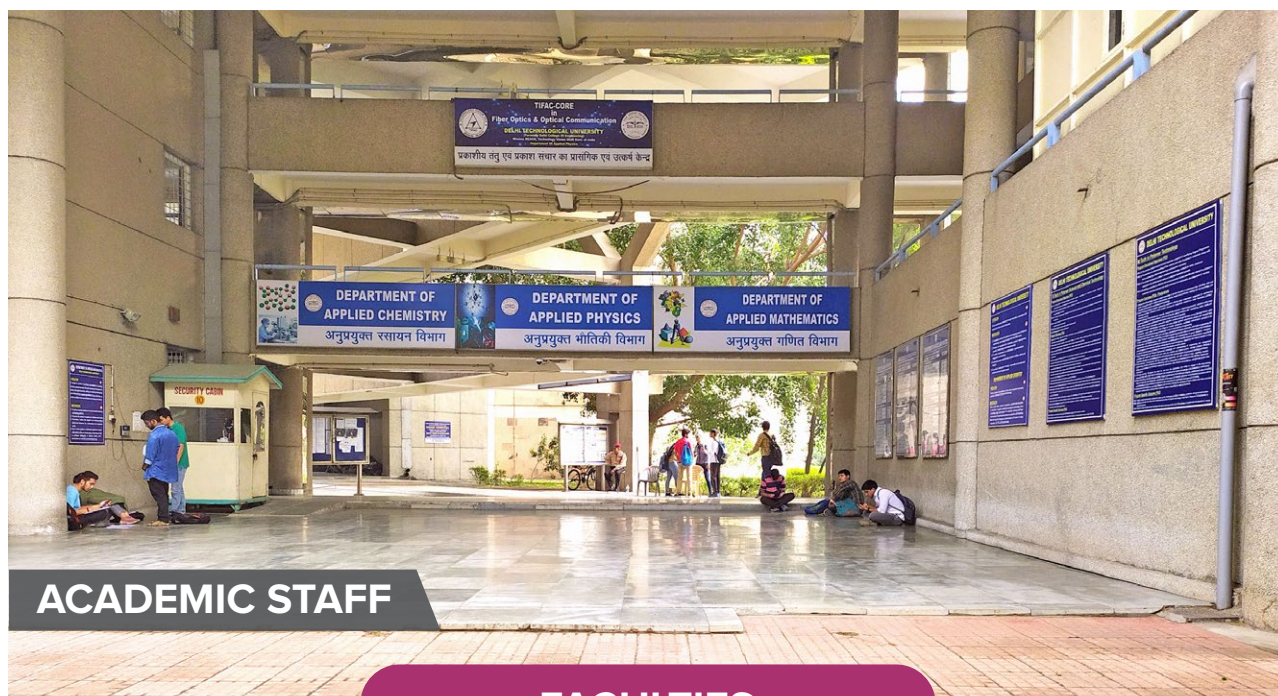
#### RESEARCH PUBLICATIONS

JOURNALS

**63**

BOOK CHAPTERS

**08**



## ACADEMIC STAFF

### FACULTIES

#### Professors: 08

- Prof. Anil Kumar (HoD)
- Prof. D. Kumar
- Prof. S. G. Warkar
- Prof. Archana Rani
- Prof. Rajinder K. Gupta
- Prof. Anubha Mandal (Adjunct)
- Prof. Ram Singh.
- Prof. Roli Purwar

#### Assistant Professors: 06

- Dr. Richa Srivastava
- Dr. Saurabh Mehta
- Dr. D. Santhiya
- Dr. Raminder Kaur
- Dr. Poonam
- Dr. Manish Jain

### AREAS OF INTEREST

Solar Cell, Cell Imaging, Electronic Structure Cell, Conducting Polymer, Organic Chemistry, Inorganic Chemistry and Polymers, Medicinal Chemistry, Neuro-Chemistry and Natural Products, Polymeric Membranes, Bio-Polymer, Nutraceuticals & Functional Foods. Textiles Processing, Environmental Technology, Nano-Biotechnology, Biosynthesis of Nanopatterned Materials, Environmental Biotechnology and Surface Chemistry, Material Chemistry, Membrane Based Separations and Polymer Science.

### Achievements of the Department:

The department of Applied Chemistry is one of the oldest departments of the University. It provides state-of-art knowledge and practical skills to the UG and PG students in the diverse subjects of Applied Chemistry, Chemical Engineering and Polymer Technology. The innovations are focused to provide green technologies and products to global industries. The department has fifteen well-managed laboratories to carry out project work and

research. In last one year, the faculties of department have published about 63 research papers, 08 Book Chapters and attended many national and international conferences/seminars. The department has also contributed towards conference proceeding and book chapters of national and international repute. The students of the department have been placed in well-established industries and also some of them have taken admission in foreign universities.

### Grants for Research Projects Sponsored by Funding Agencies:

PI/Co PI	Title of the Project	Agency	Amount (₹)	Sanctioned Date	Duration
Prof. Roli Purwar	Design and Development of Electronic Devices using Regenerated Silk Fibroin/ Metal Oxide Nanocomposites Films and Hydrogels	Science and Engineering Research Board (SERB)	29,95,693/-	28.06.2023	3 Years
Dr. Deenan Santhiya	Topical delivery of therapeutic loaded bioglass assembly for bone regeneration	Science and Engineering Research Board (SERB)	5,00,000/-	18.10.2021	3 Years

### Events organized by the Department:

Prof. Ram Singh (Coordinator) and Dr. Richa Srivastava (Co-coordinator) organized an International Conference on “Chemical & Allied Sciences and their Applications”, Department of Applied Chemistry, DTU on 20<sup>th</sup> January, 2023.

Prof. Roli Purwar (Coordinator) organized a One Day Industry-Academia Seminar on “Petrochemicals in Today’s World”, Department of Applied Chemistry, DTU on 21<sup>st</sup> April, 2023.

### Awards and Recognition at State, National, International level from Recognised Bodies:

**Yearly Citation Award**

Prof. D. Kumar

**Cumulative Citation Award**

Prof. D. Kumar

**Highly Cited Paper Award**

Prof. D. Kumar

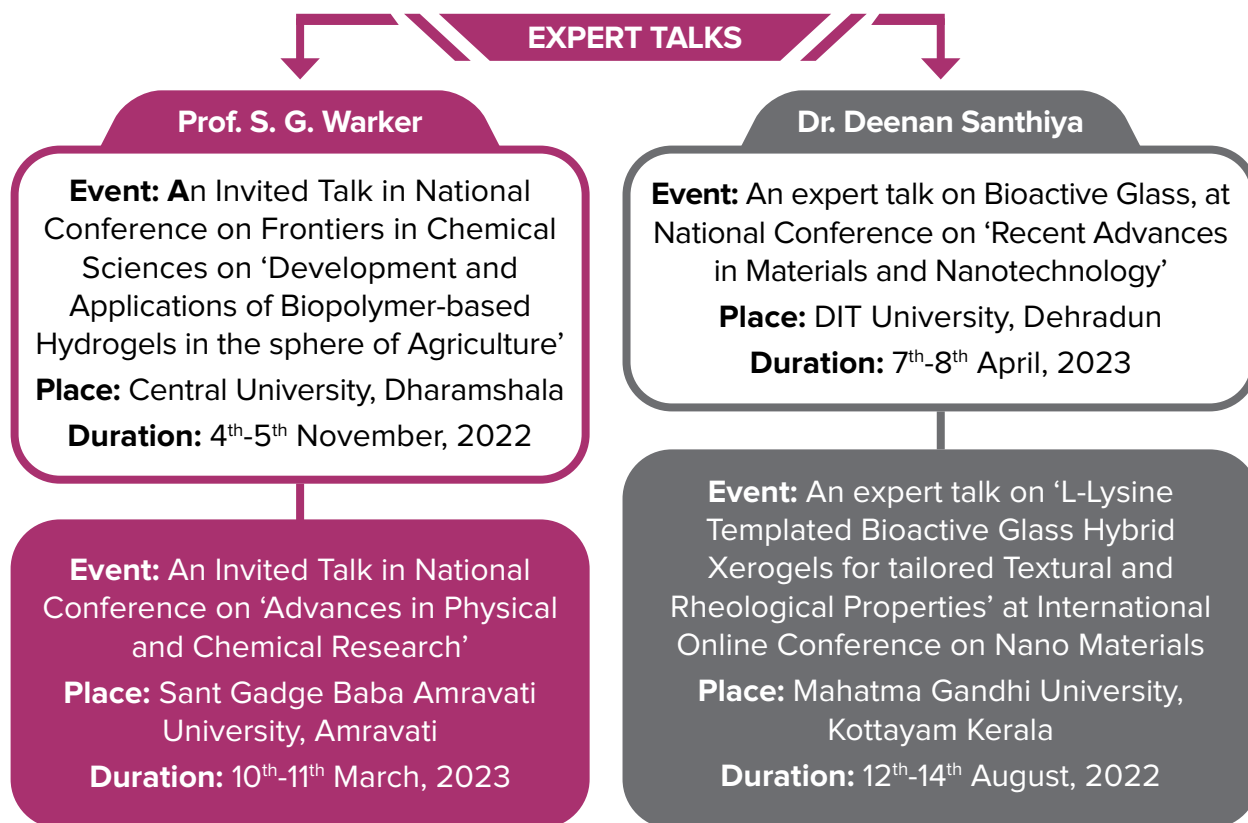
**Commendable Research Awards**

Prof. Ram Singh.  
Dr. D. Santhiya  
Dr. Raminder Kaur

## Participation in Professional Development Programmes by Faculties during Current Year:

- Dr. Raminder Kaur attended a Two-Weeks Inter-disciplinary Refresher Course on “Advanced Research Methodology” at Ramanujan College, University of Delhi during 22<sup>nd</sup> April to 6<sup>th</sup> May, 2023.
- Dr. Richa Srivastava attended a Two-Weeks Inter-disciplinary Refresher Course on “Advanced Research Methodology” at Ramanujan College, University of Delhi during 22<sup>nd</sup> April to 6<sup>th</sup> May, 2023.
- Dr. Poonam Singh attended a Two-Weeks Inter-disciplinary Refresher Course on “Advanced Research Methodology” at Ramanujan College, University of Delhi during 22<sup>nd</sup> April to 6<sup>th</sup> May, 2023.
- Dr. Poonam Singh attended Industrial Training on “Functional Textile Materials” organized by The Sun design, Panipat, Haryana during 15<sup>th</sup> to 30<sup>th</sup> December, 2022.

## Visit of Faculty to other University/Institution for Expert Lectures/ Academic Work:



1. Prof. S. G. Warker served as Screening Committee Member For the post of Assistant Professor and Associate Professor at HBTU, Kanpur during July-August 2023.
2. Prof. S. G. Warker visited as NAAC Peer Team Member (Co-ordinator) in 4 colleges during 10<sup>th</sup> – 11<sup>th</sup> May and 19<sup>th</sup> – 20<sup>th</sup> June, 2023.
3. Prof. S. G. Warker served as Technical Observer in CUET exam in August, 2022.

4. Prof. S. G. Warker served as External Practical Examiner for M.Sc. Chemistry at Jamia Milia Islamia, New Delhi, during June 2023.
5. Prof. S. G. Warker served as Ph. D Thesis Examiner at University of Delhi, Jamia Milia Islamia, New Delhi and Sant Gadge Baba Amravati University, Amravati, during December 2022 and June 2023.
6. Prof. S. G. Warker was Subject Expert at Uttarakhand Public Service Commission in June 2023.
7. Prof. S. G. Warker served as External Expert DRC Chemistry at J. C. Bose University of Science & Technology YMCA, Faridabad from 25/03/2023 to till date.
8. Prof. Roli Purwar served as Expert of Screening Committee of SERB-SURE from September 2022 to till date.
9. Prof. Roli Purwar served as Expert of Sub-Committee of Technical Textiles Research, Development & Innovation from November 2022 to till date.
10. Prof. Roli Purwar served as Ph.D. Thesis Examiner at ICT, Mumbai during July 2022.
11. Prof. Roli Purwar served as Ph.D. Thesis Examiner at Amity University, Noida on 10<sup>th</sup> May, 2023)
12. Prof. Roli Purwar served as Ph.D. Thesis Examiner at Manav Rachna University, Faridabad and Jamia Milia Islamia, New Delhi during May 2023.
13. Prof. Anil Kumar served as Ph.D. Thesis Examiner (2 thesis) at University of Delhi, Delhi on 20<sup>th</sup> January, 2023 and 24<sup>th</sup> April, 2023.
14. Prof. Archna Rani served as external practical examiner for M.Sc. Program for Chemistry (2<sup>nd</sup> Semester) at Jamia Hamdard, Delhi on 17<sup>th</sup> May, 2023..
15. Prof. Archna Rani served as Ph.D. Thesis Examiner at BBA University, Lucknow on 5<sup>th</sup> February, 2023.
16. Prof. Archna Rani served as examiner for setting of question paper at Jamia Milia Islamia, New Delhi during January 2022.
17. Prof. D. Kumar served as external member, BOS for B. Tech in Plastics Technology, DCR University of Sc. & Tech., Murthal, Haryana on 5<sup>th</sup> December, 2022.

## Functional MoUs with Universities / Institutions / Industries of National / International Importance:

### FUNCTIONAL MoUs

**MoU:** Signed in 2019 Between DTU, Delhi and Amicures Research Pvt Ltd

**Purpose:** To promote and enhance research in the area of pharmaceuticals and health care.

**Duration:** 5 Years

**MoU:** Signed in 2022 between DTU and Mitsui Chemicals Ltd., India

**Purpose:** To facilitate Research & Development cooperation between the two organizations

**Duration:** 3 Years

## Faculties Provided with Financial Support to attend Conference/ Seminar/ Symposia/ Workshop/ Short Term Course/ FDP/ Training etc. during Current Year:

**Dr. Poonam Singh** successfully completed eight modules of AICTE - National Initiative for Technical Teachers Training with financial assistance of ₹10000/- from the University.

**Dr. Deenan Santhiya** attended and presented at the Platinum Jubilee Conference on “Prospectives in Material Research (PMR-2022)”, organized by the Department of the Materials Engineering, IISc, Bangluru during 21<sup>st</sup> – 23<sup>rd</sup> December, 2022, with financial assistance of ₹30,000/- from the University (Title of Oral Presentation: Sustainable Synthesis of Bioactive Glass Material for Broad Spectrum Applications).

## Students' Progression to Higher Education:

**Ms. Tanvi Singh**  
Ph.D.  
DTU, Delhi

**Ms. Megna**  
Ph.D.  
DTU, Delhi





## 4.2 DEPARTMENT OF APPLIED MATHEMATICS

**Prof. S. Sivaprasad Kumar**  
HoD

### ACADEMIC PROGRAMMES

**B. Tech.  
(Mathematics and  
Computing)**

Intake : 181  
Admitted : 181

**M. Sc.  
(Mathematics)**

Intake : 60  
Admitted : 60

**Ph.D. : 5**

### RESEARCH PUBLICATIONS

**JOURNALS**

**53**

**CONFERENCES**

**20**

### SALIENT FEATURES

The Department of Applied Mathematics established in 2011, aims to impart sound knowledge of Mathematics, Statistics, and Computing to students through teaching and research. The department is achieving its goals/objectives with the help of highly qualified faculty. Currently, the department offers four-year B.Tech. program in Mathematics & Computing which is an amalgamation of Mathematics with Computer Science and Financial Engineering. The curriculum has been designed to meet the needs of sophisticated mathematics for modern scientific investigations and technological developments. A two-year M.Sc. program in Mathematics was introduced in 2019 with an initial intake of 33 students and a current intake of 60, which is designed to cater to the needs of students aspiring for research, teaching profession, and industry. Over 60 students are registered in the department for the Ph.D. programme in various areas of Mathematics and Computing.

### LABORATORIES

The Department of Applied Mathematics offers state-of-the-art computing facilities to all the undergraduate and graduate students, research scholars and faculty members. A high-speed Local Area Network connection through the Institute's central facilities, ensure that all students and faculty have the most modern computing facilities, including round-the clock internet and e-mail connection, to meet their academic and research needs. Department has three computational labs. Computational lab I, II and III fully functional and have 90 computer systems with latest configuration.



## FACULTIES

### Professors: 08

- Prof. S. Sivaprasad Kumar (HoD)
- Prof. Sangita Kansal
- Prof. R. Srivastava
- Prof. Naokant Deo
- Prof. Anjana Gupta
- Prof. L. N. Das
- Prof. Chandra Prakash Singh
- Prof. Aditya Kaushik

### Assistant Professors: 12

- Dr. Vivek Kumar Aggarwal
- Dr. Nilam
- Dr. Goonjan Jain
- Dr. Dinesh Udar
- Mr. Rohit Kumar
- Dr. Satyabrata Adhikari
- Ms. Trasha Gupta
- Dr. Dharendra Kumar
- Dr. Payal
- Ms. Sumedha Seniaray
- Dr. Anshul Arora
- Mr. JamKhongam Touthang

## AREAS OF INTEREST

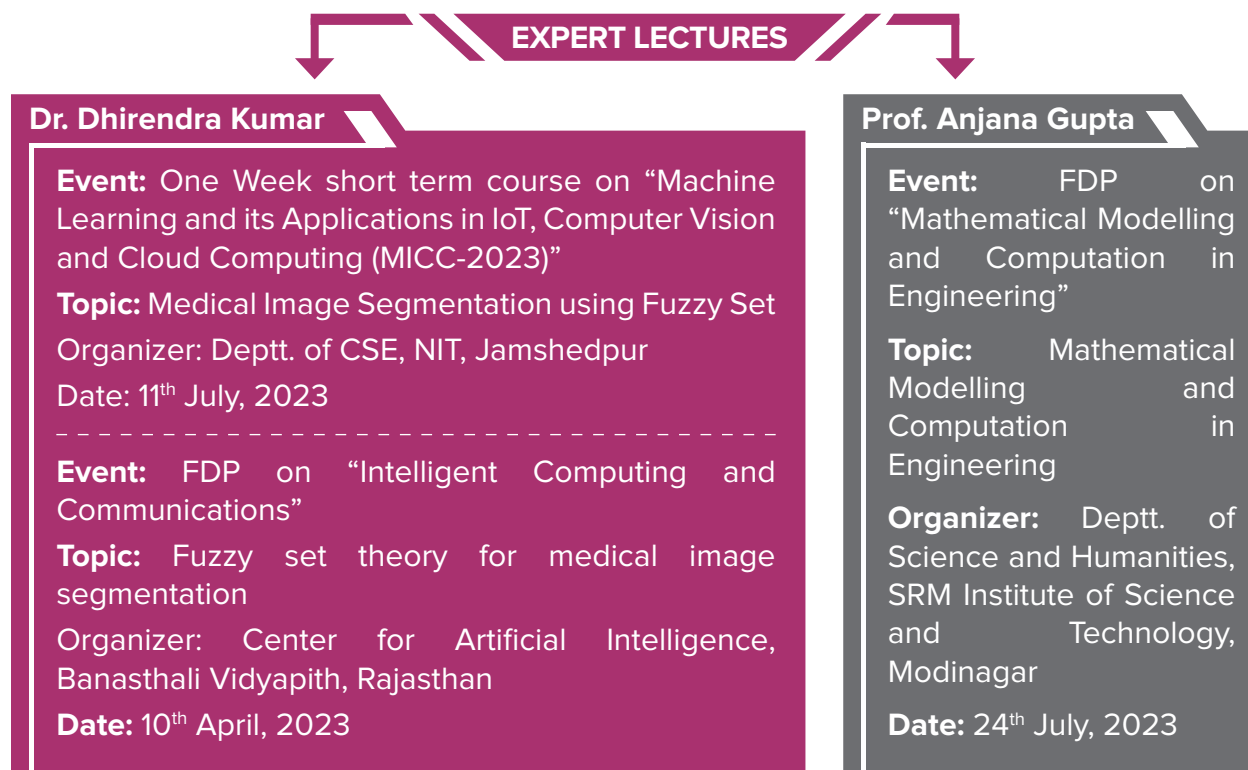
Information Theory, Graph Theory and Petri net Theory, Numerical Simulation, General Relativity and Cosmology, Complex Analysis, Algebra, Approximation Theory, Operations Research, Optimization Techniques, Numerical Analysis, Mathematical Modelling, Quantum Information Processing, Android security, Network Security, Machine Learning, Natural Language Processing, Image Processing, and Signal Processing.



**Faculties Provided with Financial Support to attend Conference/ Seminar/ Symposia/ Workshop/ Short Term Course/ FDP/ Training etc. during Current Year:**

Name of Faculty	Title of Event attended with financial support provided by DTU	Organized by	Amount of support (₹)	Date(s)
Mr. Rohit Kumar	Refresher Course on "Applicable Mathematics"	TLC, Ramanujan College, University of Delhi, Delhi	950/-	26 <sup>th</sup> July - 8 <sup>th</sup> Aug, 2022
Mr. Rohit Kumar	Refresher Course In Mathematics on "Python & Vedic Mathematics"	TLC, Ramanujan College, University of Delhi, Delhi	1,450/-	13 <sup>th</sup> - 26 <sup>th</sup> July, 2023
Mr. Rohit Kumar	International Conference on "Graphs, Networks and Combinatorics 2023"	TLC, Ramanujan College, University of Delhi, Delhi	3,000/-	10 <sup>th</sup> - 12 <sup>th</sup> Jan, 2023
Dr. Goonjan Jain	Industrial Training	ALTTC, BSNL	11,800/-	6 <sup>th</sup> -22 <sup>nd</sup> July, 2023
Dr. Goonjan Jain	FDP on "E-Content Development: Concepts and Tools"	TLC, Ramanujan College, University of Delhi, Delhi	1,450/-	19 <sup>th</sup> – 25 <sup>th</sup> Dec, 2022
Dr. Dinesh Udar	Refresher course on "Applicable Mathematics"	TLC, Ramanujan College, University of Delhi, Delhi	1,450/-	26 <sup>th</sup> July - 8 <sup>th</sup> Aug, 2022

## Visit of Faculty to other University/Institution for Expert Lectures/ Academic Work:



## Participation in Professional Development Programmes by Faculties during Current Year:

Name of Faculty	Title of Professional Development Program	Organized by	Date(s)
Dr. Nilam	One week Refresher course on Natural Sciences	Ramanujan College, University of Delhi, Delhi	30 <sup>th</sup> July – 5 <sup>th</sup> August, 2022
Dr. Payal	Two-weeks refresher course on Mathematical Sciences	Ramanujan College, University of Delhi, Delhi	28 <sup>th</sup> Jan - 11 <sup>th</sup> Feb, 2023
Dr. Anshul Arora	Two-weeks Refresher course in Applicable Mathematics	Ramanujan College, University of Delhi, Delhi	26 <sup>th</sup> July – 8 <sup>th</sup> August, 2022
	One week FDP on "Academic Research Writing"	Ramanujan College, University of Delhi, Delhi	08 <sup>th</sup> – 14 <sup>th</sup> July, 2023
	One week FDP on “Psychological Skills for Teaching and Learning”	Ramanujan College, University of Delhi, Delhi	15 <sup>th</sup> – 21 <sup>st</sup> July, 2023
Dr. Dharendra Kumar	ISEA-II Sponsored Short Term Course on “Cyber Security: Managing Risk in the Information Age”	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India	12 <sup>th</sup> – 16 <sup>th</sup> October, 2022

Dr. Dharendra Kumar	IEEE CIS Summer School on “Emerging Research Trends in Computational Intelligence Techniques to address Challenges in Biomedical Data and Imaging”	National Institute of Technology Arunachal Pradesh, Jote, India	7 <sup>th</sup> – 11 <sup>th</sup> November, 2022
	11 <sup>th</sup> International Conference on “Recent Trends in Computing (ICRTC 2023)”	SRM Institute of Science and Technology, Delhi, NCR Campus, India	2 <sup>nd</sup> – 3 <sup>rd</sup> June, 2023
	4 <sup>th</sup> International Conference on “Emerging Technology (INCET 2023)”	Jain College of Engineering, Belagavi, India.	26 <sup>th</sup> – 28 <sup>th</sup> May, 2023
	Integrated Master Programme on “Data Science and Environmental Studies under National Education Policy, 2020”	TERI School of Advanced Studies, New Delhi	15 <sup>th</sup> April, 2023
Mr. Rohit Kumar	Refresher Course on “Applicable Mathematics”	Ramanujan College, University of Delhi, Delhi	26 <sup>th</sup> July – 8 <sup>th</sup> Aug, 2022
	E-Resources: A Gateway for Research (6 <sup>th</sup> Edition)	Central Library, DTU, Delhi	5 <sup>th</sup> - 9 <sup>th</sup> Sep, 2022
	Refresher course on “Advanced Pedagogical Techniques”	Ramanujan College, University of Delhi, Delhi	13 <sup>th</sup> - 19 <sup>th</sup> March, 2023
	Refresher Course In Mathematics on “Python & Vedic Mathematics”	Ramanujan College, University of Delhi, Delhi	13 <sup>th</sup> - 26 <sup>th</sup> July, 2023
	International Conference on “Graphs, Networks and Combinatorics 2023”	Department of Mathematics, Ramanujan College, University of Delhi, Delhi	10 <sup>th</sup> - 12 <sup>th</sup> Jan, 2023
Ms. Sumedha Seniaray	Two weeks refresher course in “Mathematical Sciences”	TLC, Ramanujan College, University of Delhi, Delhi	28 <sup>th</sup> Jan – 11 <sup>th</sup> Feb, 2023
Ms. Trasha Gupta	Two weeks refresher course in “Mathematical Sciences”	TLC, Ramanujan College, University of Delhi, Delhi	28 <sup>th</sup> Jan – 11 <sup>th</sup> Feb, 2023
Dr. Goonjan Jain	FDP on - “E-Content Development: Concepts and Tools”	TLC, Ramanujan College, University of Delhi, Delhi	19 <sup>th</sup> – 25 <sup>th</sup> Dec, 2022
	IP Awareness/Training under National Intellectual Property Awareness Mission	DTU, Delhi	30 <sup>th</sup> Nov, 2022
Prof. C.P. Singh	International Workshop on “Gravity and Cosmology”	NSUT, Delhi	24 <sup>th</sup> – 26 <sup>th</sup> Sept, 2023
	International Conference on “Recent Advances in Mathematical Sciences and Interdisciplinary Areas”	GLA University, Mathura	22 <sup>nd</sup> – 24 <sup>th</sup> June, 2023
	International Conference on “Recent Trends in Mathematical and Computational Sciences”	Banaras Hindu University, Varanasi	3 <sup>rd</sup> – 5 <sup>th</sup> Feb, 2023

Dr. Dinesh Udar	Refresher course on “Applicable Mathematics”	TLC, Ramanujan College, University of Delhi, Delhi	28 <sup>th</sup> July - 8 <sup>th</sup> Aug, 2022
	E-Resources: A Gateway for Research (6 <sup>th</sup> Edition)	Central Library, DTU, Delhi	5 <sup>th</sup> - 9 <sup>th</sup> Sep, 2022
	Refresher course on “Advanced Pedagogical Techniques”	Ramanujan College, University of Delhi, Delhi	13 <sup>th</sup> - 19 <sup>th</sup> March, 2023

## Awards and Recognition at State, National, International level from Recognised Bodies:

### Research Excellence Awards (DTU, Delhi on 6<sup>th</sup> April, 2023)

#### Premier Research Awards

Dr. Vivek Kumar Aggarwal  
Dr. Dharendra Kumar  
Dr. Goonjan Jain

### Commendable Research Awards

Prof. S. Siva Prasad Kumar    Prof. Naokant Deo  
Prof. Anjana Gupta        Dr. Dharendra Kumar  
Prof. Sangita Kansal       Dr. Vivek Kumar Aggarwal  
Prof. H.C. Taneja            Dr. Nilam  
Prof. R. Srivastava          Mr. Rohit Kumar





## 4.3 DEPARTMENT OF APPLIED PHYSICS

**Prof. A. Srinivas Rao**  
HoD

### ACADEMIC PROGRAMMES

#### **B. Tech. (Engineering Physics)**

Intake : 116  
Admitted : 116

#### **M. Sc. (Physics)**

Intake : 60  
Admitted : 60

**Ph.D. : 7**

### RESEARCH PUBLICATIONS

**JOURNALS**

**100**

**CONFERENCES**

**35**

### SALIENT FEATURES

The Department of Applied Physics is a major department of Delhi Technological University providing cutting edge research, innovation and education in the emerging areas of science and technology. The objective of the department is to create future generations of skilled Engineers and Scientists by providing quality education through cutting edge technologies and innovative teaching techniques so as to make them well equipped to face present and future challenges and their overall sustainable future growth

### LABORATORIES

The department has 27 Labs: Applied Physics Lab, Digital Electronics Lab, FPGA Design Lab, Mobile & Satellite Communication Lab, EMT, Antenna and Propagation Lab, Alternate Energy Storage & Conversion Devices Lab, Condensed Matter Physics Lab, Communication System Lab, Optics Lab, Microprocessor & Interfacing Lab, Fiber Optics & Optical Communication Lab, Microwave Engineering Lab, Advanced Instrumentation Lab, Innovation Lab and many more.



ACADEMIC STAFF

## FACULTIES

## Professors: 07

- Prof. A. Srinivasa Rao (HoD)
- Prof. Suresh C. Sharma
- Prof. R. K. Sinha
- Prof. Rinku Sharma
- Prof. Vinod Singh
- Prof. Rishu Chaujar
- Prof. Nitin K. Puri

## Assistant Professors: 13

- |                        |                            |
|------------------------|----------------------------|
| • Dr. Mohan S. Mehata  | • Dr. Deshraj Meena        |
| • Dr. Pawan Tyagi      | • Dr. Renuka Bokolia       |
| • Dr. Yogita Kalra     | • Dr. Sarita Baghel        |
| • Dr. M. Jayasimhadri  | • Mr. Yogendra Kumar Meena |
| • Dr. Ajeet Kumar      | • Dr. Richa Sharma         |
| • Dr. Amrish K. Panwar | • Dr. Mukhtiyar Singh      |
| • Dr. Bharti Singh     |                            |

## AREAS OF INTEREST

Rare Earth/Transition Metal Ions Doped Phosphors/Nanophosphors/Glasses, Bio-Imaging & Targeting Drug Delivery, Optoelectronics, Carbon Nanotubes (Cnts), CNTFET Based Biosensors, High Power Microwave Devices, THz Radiation Emissions. Fiber Optics and Optical Communication, Atomic & Molecular Physics, Semiconductor, FINFET, HEMT, Wireless & Sensor Applications, Time-Resolved Photoluminescence, Materials Science, Surface Modification, Energy Storage & Conversion Devices, Multiferroic Materials and Thermoelectric Materials, Piezo-Triboelectric Nanogenerator, Wearable Electronics, Resistive Memory Devices, Scanning Probe Force, Polymer Synthesis, Gas Sensors Based on Metal Oxides, Ferroelectric Ceramics, Dielectric Materials, Mathematical Modeling, Ferroelectric and Dielectric Ceramics, Computational Design of Novel Materials for Energy and Quantum Technology, Solar cell and Solar Energy Materials.



### Achievements of the Department:

- Many faculties of the department of Applied Physics have received the DTU Research Excellence Award.
- Prof. Rishu Chaujar, Dept. of Applied Physics appointed as the Centre Coordinator for setting up Vinod Dham Centre of Excellence for Semiconductors and Microelectronics in DTU.
- Department is developing a skill center to train the first year students of B.Tech (EP) in collaboration with "Glass Industry". An MOU related to this is under progress.
- Prof. Rishu Chaujar awarded with DST-SERB Power Fellowship.
- Delhi Technological University signed an MoU with CSIR Laboratory CSIO, Chandigarh.
- Many faculties of the department (Prof. A.S. Rao, Prof. R.K. Sinha, Prof. Rishu Chaujar & Dr. M. Jaysimhadri) appeared in the top 2% scientists in world released by Stanford University, USA.
- Prof. Rishu Chaujar received a research grant of ₹ 38,10,000/- under DST-SERB Power Fellowship for a period of 3 years, November 2022.
- Dr. Mukhtiyar Singh received a research grant of ₹ 28,08,104/- from DST-SERB for a period of 3 years in March 2024.

### Events organized by the Department:

**Event:** DST-STUTI, Training program on "Synthesis methods and characterizations of materials and biomolecules"

**Organizer:** Deptt. of Applied Physics, DTU, in association with Jamia Hamdard (DST-PMU) New Delhi

**Duration:** 16<sup>th</sup> - 22<sup>nd</sup> November, 2022.

**Event:** One-day National seminar on "Recent advancements in semiconductor devices and materials (RASDM-2023)"

**Organizer:** Deptt. of Applied Physics, DTU, Delhi

**Date:** 30<sup>th</sup> January, 2023.

## Faculties Provided with Financial Support to attend Conference/ Seminar/ Symposia/ Workshop/ STC/ FDP/ Training etc. during Current Year:

Dr. Mohan Singh Mehata, received ₹ 40,000/- to attend international conference, at BITS Goa during 5<sup>th</sup> – 7<sup>th</sup> Jan, 2023.

Dr. Mukhtiyar Singh received ₹ 21,000/- for attending Psi-k Workshop, NAMMA held at Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), IISc, Bengaluru during 24<sup>th</sup> – 28<sup>th</sup> July, 2023.

Prof. Rishu Chaujar received ₹ 42804/- for attending an International Conference SemiconIndia-2023 organized by India Semiconductor Mission, Ministry of Electronics and Information Technology, Gandhinagar during 28<sup>th</sup> - 30<sup>th</sup> July, 2023.

## Collaborative Activities for Research, Faculty Exchange, and Student Exchange:

### Collaborative Activities

#### Dr. Mohan Singh Mehata

Collaboration with Institute of Molecular Science, Center for Emergent Functional Matter Science, National Yang-Ming Chiao Tung University, Taiwan through a joint Ph.D. student

**Duration:** From 2020 till Present

Collaboration with the Institute of Chemical Physics Russian Academy of Science, Moscow, Russia

**Duration:** From 2019 till Present

#### Prof. Rishu Chaujar

Collaboration with Prof. Jamal Deen, Distinguished Professor, Department of Electrical Engineering, Mc Master University, Canada, through a joint Ph.D. student

**Duration:** From 2022 till Present

Collaboration with Dr. R. K. Bhan, Outstanding Scientist, DRDO, through a joint Ph.D. student

**Duration:** From 2021 till Present

## Participation in Professional Development Programmes by Faculties during Current Year:

Name of Faculty	Title of Professional Development Program	Organized by	Date(s)
Prof. Nitin K. Puri	International Conference on Atomic Energy and Nuclear Safety	International Atomic Energy Agency, IAEA in Vienna, Austria	17 <sup>th</sup> – 21 <sup>st</sup> July, 2023
	One day Seminar on “Recent Advancements in Semiconductor Devices and Materials (RASDM-2023)	Department of Applied Physics, DTU, Delhi	30 <sup>th</sup> January, 2023

Prof. Suresh C. Sharma	International Conference on “Energy & Advanced Materials”	Jaypee Institute of Information Technology (JIIT), Noida	2 <sup>nd</sup> – 4 <sup>th</sup> November, 2023
	International Conference on “Plasma Theory and Simulations (PTS-2023)”	School of Physical Sciences, JNU, Delhi	21 <sup>st</sup> – 23 <sup>rd</sup> September, 2023
	International Conference on “Plasma Science and Applications (ICPSA-2022)”	Gauhati University, Guwahati, Assam	28 <sup>th</sup> – 30 <sup>th</sup> December, 2022
	International Conference on Nanotechnology: Opportunity and Challenges (ICNOC-2022)	Jamia Millia Islamia (Central University), New Delhi	28 <sup>th</sup> – 30 <sup>th</sup> November, 2022
Dr. Ajeet Kumar	One-week Short-Term Course on “Photonic Devices and Spectroscopic Techniques for Materials Analysis”	National Institute of Technology, Kurukshetra	20 <sup>th</sup> – 26 <sup>th</sup> February, 2023
Prof. Rishu Chaujar	International Conference by IEEE Delhi Section, DELCON-2023,	Chitkara University, Chandigarh	24 <sup>th</sup> – 26 <sup>th</sup> February, 2023
	Seminar on “Implementation of NEP-2020 in Special reference to Innovation & Entrepreneurship”	Department of Applied Physics and IIC, DTU, Delhi	24 <sup>th</sup> February, 2023
	One day Seminar on “Recent Advancements in Semiconductor Devices and Materials (RASDM-2023)”	Department of Applied Physics, DTU, Delhi	30 <sup>th</sup> January, 2023
	DST-STUTI, Training program	Department of Applied Physics, DTU in association with Jamia Hamdard (DST-PMU), Delhi	16 <sup>th</sup> – 22 <sup>nd</sup> November, 2022
	IEEE EDS Upskilling Course 2022-23	IEEE MP Section EDS Chapter, IIT Indore, M.P.	10 <sup>th</sup> – 11 <sup>th</sup> March, 2023
	National Science Day (NSD-2023)	HRDC, IIC and Applied Physics, DTU, Delhi	28 <sup>th</sup> February, 2023
Dr. Richa Sharma	Seminar on “Implementation of NEP-2020 in Special reference to Innovation & Entrepreneurship”	Department of Applied Physics and IIC, DTU, Delhi	24 <sup>th</sup> February, 2023
	One day Seminar on “Recent Advancements in Semiconductor Devices and Materials (RASDM-2023)”	Department of Applied Physics, DTU, Delhi	30 <sup>th</sup> January, 2023
	Intellectual Property (IP) Awareness Program	IPR Cell, DTU, Delhi	12 <sup>th</sup> - 14 <sup>th</sup> December, 2022
	E-Resources: A Gateway for Research (6 <sup>th</sup> Edition)	Central Library, DTU, Delhi	5 <sup>th</sup> - 9 <sup>th</sup> September, 2022
	National Science Day (NSD-2023)	HRDC, IIC and Applied Physics, DTU, Delhi	28 <sup>th</sup> February, 2023
Dr. Bharti Singh	Two-Weeks Refresher Course	TLC, Ramanujan College, University of Delhi, Delhi	07 <sup>th</sup> -21 <sup>st</sup> January, 2023
	One week Literacy Workshop	Delhi Technological University, Delhi	5 <sup>th</sup> - 9 <sup>th</sup> September, 2022
	One day Seminar on “Recent Advancements in Semiconductor Devices and Materials (RASDM-2023)”	Department of Applied Physics, DTU, Delhi	30 <sup>th</sup> January, 2023

Dr Renuka Bokolia	One day Seminar on “Recent Advancements in Semiconductor Devices and Materials (RASDM-2023)”	Department of Applied Physics, DTU, Delhi	30 <sup>th</sup> January, 2023
	Two-Weeks Refresher Course	TLC, Ramanujan College, University of Delhi, Delhi	07 <sup>th</sup> -21 <sup>st</sup> January, 2023
	One week Literacy Workshop	Delhi Technological University, Delhi	5 <sup>th</sup> - 9 <sup>th</sup> September, 2022
Dr. Mukhtiyar Singh	Workshop on “New Approaches and Machine learning Methods for Ab-initio Calculations (NAMMA)”	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) Indian Institute of Science (IISc), Bengaluru	24 <sup>th</sup> – 28 <sup>th</sup> July, 2023
	One week Literacy Workshop	Delhi Technological University, Delhi	5 <sup>th</sup> - 9 <sup>th</sup> September, 2022
	Virtual School on “Many-Body Calculations using EPW and Berkeley GW”	University of Texas at Austin	5 <sup>th</sup> – 9 <sup>th</sup> June, 2023
	Two-Weeks Refresher Course	TLC, Ramanujan College, University of Delhi, Delhi	7 <sup>th</sup> – 21 <sup>st</sup> January, 2023
Prof. Rinku Sharma	One day Seminar on “Recent Advancements in Semiconductor Devices and Materials (RASDM-2023)”	Department of Applied Physics, DTU, Delhi	30 <sup>th</sup> January, 2023
	National Science Day (NSD-2023)	HRDC, IIC and Applied Physics, DTU, Delhi	28 <sup>th</sup> February, 2023
	Seminar on “Implementation of NEP-2020 in Special reference to Innovation & Entrepreneurship”	Department of Applied Physics and IIC, DTU, Delhi	24 <sup>th</sup> February, 2023
	National Workshop on “Ascertaining a skill center for glass and glazing (ASCGG-2023)”	Department of Applied Physics, DTU, Delhi	31 <sup>st</sup> August, 2023
Dr. Yogita Kalra	Seminar on “Implementation of NEP-2020 in Special reference to Innovation & Entrepreneurship”	Department of Applied Physics and IIC, DTU, Delhi	24 <sup>th</sup> February, 2023
	One day Seminar on “Recent Advancements in Semiconductor Devices and Materials (RASDM-2023)”	Department of Applied Physics, DTU, Delhi	30 <sup>th</sup> January, 2023
	Intellectual Property (IP) Awareness Program	IPR Cell, Delhi Technological University (DTU)	12 <sup>th</sup> to 14 <sup>th</sup> December, 2022
	E-Resources: A Gateway for Research (6 <sup>th</sup> Edition)	Central Library, DTU, Delhi	5 <sup>th</sup> - 9 <sup>th</sup> September, 2022
	National Science Day (NSD-2023)	HRDC, IIC and Applied Physics, DTU, Delhi	28 <sup>th</sup> February, 2023
	Seminar on “Implementation of NEP-2020 in Special reference to Innovation & Entrepreneurship”	Department of Applied Physics and IIC, DTU, Delhi	24 <sup>th</sup> February, 2023

## Awards and Recognition at State, National, International level from Recognised Bodies:

### Yearly Citation Awards

Prof. A. S. Rao  
Prof. Rishu Chaujar  
Dr. M. Jayasimhadri  
Dr. M. S. Mehata

### Cumulative Citation Awards

Prof. A. S. Rao  
Prof. Rishu Chaujar  
Dr. M. Jayasimhadri  
Dr. M. S. Mehata

### RESEARCH EXCELLENCE AWARDS

(DTU, Delhi on 6<sup>th</sup> April, 2023)

### Commendable Research Awards

Prof. A. S. Rao	Dr. M. S. Mehata
Prof. Suresh C. Sharma	Dr. Mukhtiyar Singh
Prof. Rishu Chaujar	Dr. Renuka Bokolia
Prof. Vinod Singh	Dr. Amrish K. Panwar
Prof. Nitin K. Puri	Dr. Pawan K. Tyagi
Prof. Rinku Sharma	Dr. Bharti Singh
Dr. Richa Sharma	Dr. M. Jayasimhadri

## Visit of Faculty to other University/Institution for Expert Lectures/ Academic Work:

Name of Faculty	Title of Event	Topic of Lecture/Role	Organized by	Date(s)
Dr. Mohan Singh Mehata	One-week short-term course on "Photonic Devices and Spectroscopic Techniques for Materials Analysis"	Spectroscopic techniques for the analysis of Nanomaterials /molecules	Department of Physics, NIT Kurukshetra, Haryana	20 <sup>th</sup> - 26 <sup>th</sup> Feb, 2023
Dr. Bharti Singh	Training Program on "Advanced Instrumental Techniques on Synthesis and Physiochemical analysis"	Physical Vapour Deposition Techniques	Departments of Physics and Chemistry along with School of Environment and Natural Resources, Doon University, Dehradun	27 <sup>th</sup> Jan - 2 <sup>nd</sup> Feb, 2023
Dr. Ajeet Kumar	One-week short-term course on "Photonic Devices and Spectroscopic Techniques for Materials Analysis"	Specialty optical fiber: A unique approach to achieve fiber for high power applications	Department of Physics, NIT Kurukshetra, Haryana	20 <sup>th</sup> - 26 <sup>th</sup> Feb, 2023
Prof. Rishu Chaujar	10 <sup>th</sup> IEEE International Conference on "Microelectronics, Circuits and Systems"	Co-Chair	Gauhati University, Guwahati, Assam	1 <sup>st</sup> – 3 <sup>rd</sup> July, 2023
	5 <sup>th</sup> IEEE International Conference on "Devices for Integrated Circuits (DevIC)"	Technical Programme Committee Member	Kalyani Government Engineering College, Kolkatta	7 <sup>th</sup> – 8 <sup>th</sup> April, 2023
	2 <sup>nd</sup> IEEE International Conference, DELCON-2023	Advisory Committee Member, Paper presenter and Reviewer	Chitkara University, Chandigarh	24 <sup>th</sup> -26 <sup>th</sup> February, 2023

## Students' Progression to Higher Education:

### ROHAN BHATIA

(B.Tech, Engg. Physics)  
Master of Data Science,  
University of Sheffield, England

### PRANAY KHOSLA

B.Tech, Engg. Physics)  
Master of Data Science,  
University of Canberra, Australia

## Students Provided with Financial Support to attend Conferences/ Seminars/ Symposia/ Workshops/ STP/ Guest Lecture:

- Following students have received grant of ₹ 58000/- for attending "International Conference on Materials for Advanced Technology", Organized by Materials Society of Singapore during 26<sup>th</sup> - 30<sup>th</sup> June, 2023.
  - Ms. Shilpa Rana
  - Ms. Komal
  - Mr. Vishal Singh
- Ms. Priyanka received a grant of ₹ 73000/- for attending International Conference on "SPIE OPTICS+OPTOELECTRONICS 2023" By SPIE, Prague, Czech Republic during 24<sup>th</sup> - 27<sup>th</sup> April, 2023.
- Mr. Bhavya Kumar received a grant of ₹ 60554/- for attending "9<sup>th</sup> International RF and Microwave Conference" at Kuala Lumpur, Malaysia during 19<sup>th</sup> - 21<sup>st</sup> December, 2022.
- Ms. Megha Sharma received a grant of ₹ 61516/- for attending "9<sup>th</sup> International RF and Microwave Conference" at Kuala Lumpur, Malaysia during 19<sup>th</sup> - 21<sup>st</sup> December, 2022.

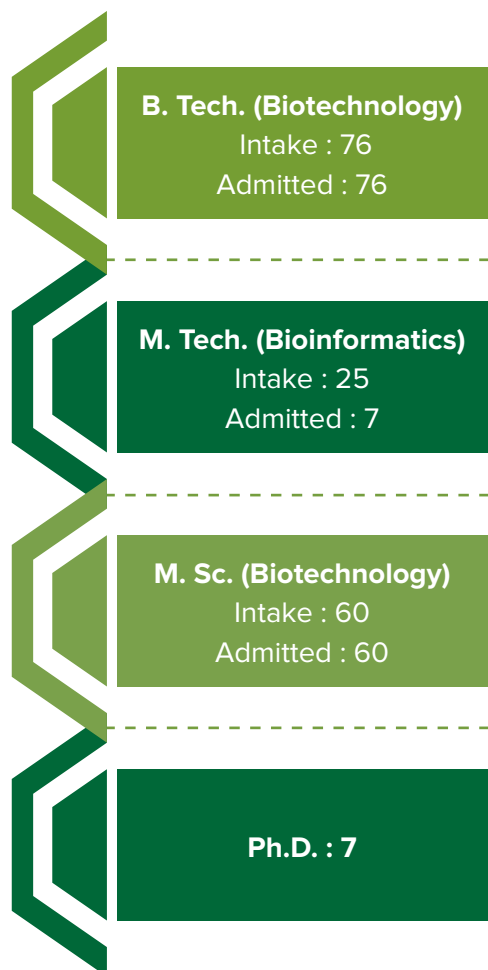




## 4.4 DEPARTMENT OF BIOTECHNOLOGY

**Prof. Pravir Kumar**  
HoD

### ACADEMIC PROGRAMMES



### RESEARCH PUBLICATIONS

JOURNALS

**62**

CONFERENCES

**42**

### SALIENT FEATURES

The department's primary goal is to conduct research in the interdisciplinary fields of biotechnology and to offer academic training in biotechnology. The main emphasis is on applying the knowledge gained from research to the creation of technologies with significant commercial significance. Department also facilitates a seamless transition from basic science to exploitable technology. This is achieved by providing opportunities to develop creative insights and improve analytical and professional skills through in-depth knowledge of core biotechnology subjects. In addition, the students receive extra instruction in soft skills. The field of biotechnology signals a growing trend involving crosstalk amongst branches of science and engineering. The department is in the process of introducing new programmes like Integrated M.Sc. (Biotechnology) and establishing centre for Diagnostics & Disease control.

### LABORATORIES

The Department has many state-of-the-art laboratories, including four new teaching laboratories have been established viz. Laboratory of Medical Biotechnology and Therapeutics, Laboratory of Bioremediation and Industrial Application, Laboratory of Coding and Biological Informatics - Laboratory of network Biology, Molecular neuroscience and Functional Genomics Laboratory, Plant and Algal Biotechnology Laboratory, Environmental and industrial Biotechnology Laboratory, Complex system and genome informatics Laboratory, Immunotherapeutic Laboratory and Biochemistry and Immunology Laboratory.



## ACADEMIC STAFF

### FACULTIES

#### Professors: 03

- Prof. Pravir Kumar (HoD)
- Prof. Jai Gopal Sharma
- Prof. Yasha Hasija

#### Assistant Professors: 02

- Dr. Asmita Das
- Dr. Navneeta Bharadvaja

### AREAS OF INTEREST

Nano Bioelectronics, Plant and Algal Biotechnology, Neurobiology, Genome Informatics, Environmental Biology, Immunotherapeutics, Molecular Medicine, Functional Genomics, Proteomics, Human Disease.

## Achievements of the Department:

The Department of Biotechnology has been continuously engaged in a research-oriented approach towards concept development. The courses have been regularly modified to develop new skill development and translational courses for better employability. The DST Department of Biotechnology (DBT), Ministry of Science & Technology, Govt. of India, India, JNU, and the University Grants Commission (UGC), Govt. of India, have all sponsored and completed projects in the department with extramural and intramural funding. The faculties and research scholars of the department have published many publications in high impact factor journals like *Frontiers in Marine Science* (I.F. 5.247), *Journal of Biomolecular Structure and Dynamics* (I.F. 5.235), *Journal of Controlled Release*, Elsevier (I.F. 10.8) etc. The students have presented their work at several international and national conferences and have been awarded Best Poster Awards as well. The department has established Institutional collaboration with University of Delhi and International collaboration with University of Tennessee. The faculty of our department has been invited to deliver plenary lectures in several forums,

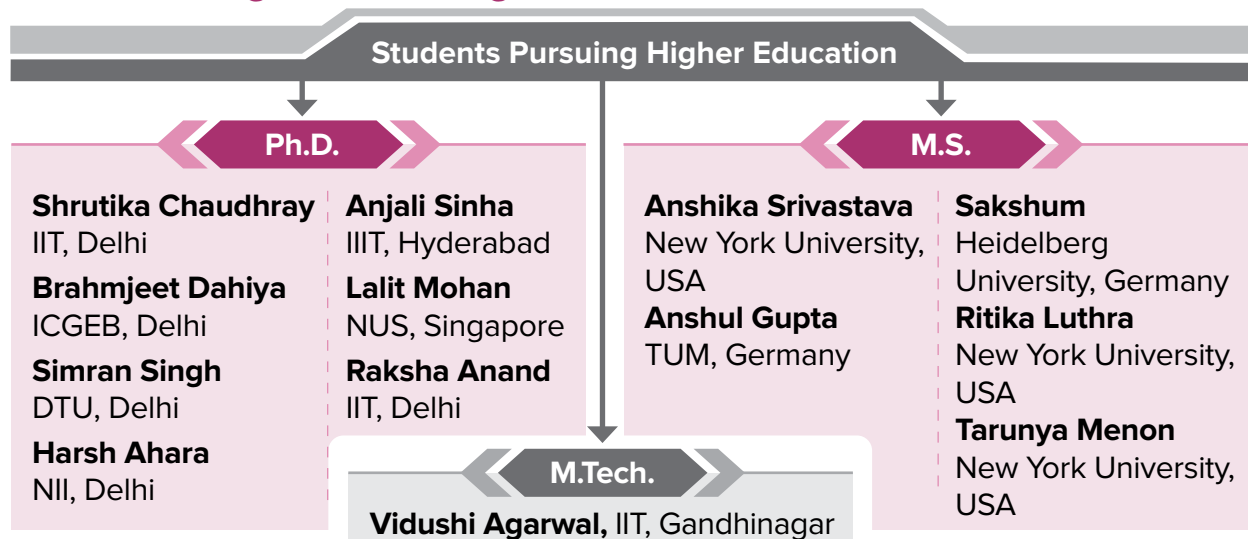
like IIT Delhi, Jamia Hamdard University, the UGHRDC Centre, and the University of Jammu. Our PhD scholars are also doing great in their research areas and got selected at many foreign and Indian universities, like Heidelberg University Germany, the National University of Singapore, Singapore, and the International Centre for Genetic Engineering and Biotechnology (ICGEB), Delhi, for their PhD and research work. Undergraduate and postgraduate students got placed in various companies like Phone Pay, Airtel, Vodafone, and Cognizant, with packages ranging from 3.6 LPA to 44 LPA. Some have taken up positions in several Ivy League colleges and prestigious institutions for higher education, like New York University, New York, TUM University Germany, etc. The department has achieved 100% placement in the current academic year. Sports and extracurricular activities are also taken very seriously, and many students have achieved national-level awards in basketball, kabaddi, etc. Many NCC cadets are from our department, and we also organize regular interactive talks and expert lecture series.

## Faculty Visit to other Institutions for Expert Lecture/Academic Work:

Name of Faculty	Title of Event	Topic of Lecture/Role	Organizer
Prof. Pravir Kumar	Synergistic Training Program utilizing the Scientific and Technological infrastructure (STUTI) Program	Neurological complications and its reversal mechanism in hypoxia-induced mice model	Dept. of Toxicology, School of Chemical Life Sciences during 30 <sup>th</sup> Jan - 5 <sup>th</sup> Feb, 2023.
	Synergistic Training Program utilizing the Scientific and Technological infrastructure (STUTI) Program	Ubiquitin proteasome system and PTMs in neuronal disorders	Dept. of Toxicology, Jamia Hamdard University, during 20 <sup>th</sup> - 26 <sup>th</sup> Dec, 2022
	International Brain Research Organization (IBRO) – APCRC Associated sponsored School along with the Society for Neurochemistry	Consequences of altered level of cell cycle proteins in post mitotic divided neurons and muscles	University of Hyderabad, during 12 <sup>th</sup> -16 <sup>th</sup> Dec, 2022.

	Synergistic Training program Utilizing the Scientific and Technological Infrastructure (STUTI) Program	Progression and drug treatment for the reversal of neurodegenerative disorders	Dept. of Applied Physics, DTU, during 16 <sup>th</sup> - 22 <sup>nd</sup> Nov, 2022
	Synergistic Training programme Utilizing the Scientific and Technological Infrastructure (STUTI) Program	Glimpses of Cell Culture Work: Standard Operating Procedures and Limitations	Dept. of Toxicology, SAS, VIT, Vellore on 13 <sup>th</sup> Oct, 2022
Prof. Jaigopal Sharma	International Conference on Advances in Algal Biotechnology & Taxonomy	Development of Sustainable Culture Techniques of Freshwater Macrophytes & Their Biochemical Composition	Dept. of Botany, CCS University, Meerut, on 28 <sup>th</sup> March, 2023
	Mukta Utsav	Water quality & feed management in pearl farming	Mukta Utsav, Ghaziabad on 25 <sup>th</sup> February, 2023
	E-waste Management & Environment	E-waste management and Environment	STPI, Noida on 15 <sup>th</sup> Feb, 2023
	Sustainable Development Goal	Sustainable Development Goals: A Tough Road Ahead	UGC-HRDC, Jodhpur from 14 <sup>th</sup> -26 <sup>th</sup> November, 2022
Prof. Yasha Hasija	Faculty Induction Programme for the newly recruited faculty members	AI and ML: Transforming Healthcare	UGCHRD Centre, University of Jammu, 2023
	International Conference on "Recent Advances in Biotechnology"	Computational Biology and Bioinformatics	Deptt. of Biotechnology, Deptt. of Chemical Engineering in association with NIT Jalandhar during 2 <sup>nd</sup> - 4 <sup>th</sup> Dec, 2022
Dr. Navneeta Bharavaja	B.Tech Practical Exam	External Examiner	I.P. University, Dwarka in June 2023
Dr. Asmita Das	Practical Exam	External Examiner	Delhi University and IP university, Delhi
	Combined Entrance Exam	Question paper setter	Jawaharlal Nehru University, Delhi

### Students' Progression to Higher Education:



## Capability Enhancement and Development Schemes:

Dr. Navneeta Bharadvaja coordinated a webinar on “The Era of Indian Startups” organized by the Department of Biotechnology, DTU on 15<sup>th</sup> October, 2022.

## Awards and Recognition at State, National, International level from Recognised Bodies:

### RESEARCH EXCELLENCE AWARD

(DTU, Delhi on 6<sup>th</sup> April, 2023)

#### FACULTIES

##### Yearly Citation Award

Prof. Pravir Kumar

##### Cumulative Citation Award

Prof. Pravir Kumar

##### Commendable Research Awards

Prof. Yasha Hasija  
Prof. Jai Gopal Sharma  
Dr. Navneeta Bharadvaja  
Dr. Asmita Das

#### RESEARCH SCHOLARS

##### Commendable Research Awards

Ms. Mehar Sahu	Ms. Ritika Luthra
Mr. Sudhanshu Sharma	Ms. Neha Tiwari
Mr. Rahul Tripathi	Ms. Megha
Ms. Smita Kumari	Mr. Navneet Chaudhary
Mr. Navneet Chaudhary	Ms. Jayshree
Mr. Lakhan Kumar	Mr. Rajkumar Chakroborty
Ms. Raksha Anand	
Mr. Shaubhik Anand	
Mr. Lalit Mohan	





## 4.5 DEPARTMENT OF CIVIL ENGINEERING

**Prof. Vijay Kumar Minocha**  
HoD

### ACADEMIC PROGRAMMES

#### B. Tech. (Civil Engineering)

Intake: 151  
Admitted: 151

#### B. Tech. (Civil Engineering - Cont. Edu.)

Intake: 60  
Admitted: 19

#### M. Tech. (Structural Engineering)

Intake: 25  
Admitted: 23

**Ph.D. : 11**

### RESEARCH PUBLICATIONS

JOURNALS

**56**

CONFERENCES

**43**

BOOK CHAPTER

**19**

### SALIENT FEATURES

Civil engineering has contributed significantly to enhancing community life over the years by merging the planet's natural resources. The field of Civil engineering focuses on planning, constructing, and maintaining the built and naturally occurring environment, including public works like roads, bridges, canals, dams, airports, sewage systems, pipelines, building structural components, and railways. There are several distinct sub-disciplines within the broad field of civil engineering. Its background is connected to the understanding of structures, materials science, geography, geology, soils, hydraulics, irrigation engineering, environmental science, mechanics, earthquake technology, project management, etc.

### LABORATORIES

The department contains 14 well-equipped laboratories with research facilities for Structure, Concrete testing, Soil Dynamics and Intelligent Transport Systems, Rock Mechanics, Soil Mechanics, Disaster Management, CAD, Earthquake technology, Mechanics of Solid, Hydraulics, Fluid Mechanics, Computational and Hydraulics Modeling, Surveying, and Transportation lab.



## ACADEMIC STAFF

### FACULTIES

#### Professors: 16

- Prof. Vijay K. Minocha (HoD)
- Prof. K. C. Tiwari (Retd. Col)
- Prof. Ashutosh Trivedi
- Prof. Ashok Kumar Gupta
- Prof. Nirendra Dev
- Prof. Anil Kumar Sahu
- Prof. Rakesh Kumar
- Prof. Amit Kr. Srivastava
- Prof. Alok Verma
- Prof. Naresh Kumar
- Prof. Awadhesh Kumar
- Prof. S. Anbu Kumar
- Prof. Raju Sarkar
- Prof. Munendra Kumar
- Prof. T. Vijaya Kumar
- Prof. Sanjay Kumar Shukla (Adjunct)

#### Associate Professors: 06

- Mr. G.P. Awadhiya
- Mr. Susheel Kumar
- Mr. Narad Muni Prasad
- Mr. A. R. Kongan
- Dr. Shilpa Pal
- Dr. Pradeep K. Goyal

#### Assistant Professors: 04

- Mr. B. R. G. Robert
- Dr. Bharat Jhamnani
- Dr. Ritu Raj
- Mr. Hrishikesh Dubey

### AREAS OF INTEREST

Stochastic/AI/ Statistical Modelling of Water, Environmental and Transportation Systems, Solid Waste Processing, Water Quality Modelling, Geotechnical Engineering, Rock Mechanics and Soil Dynamics, Finite Element Method, Disaster Management, High Strength Nano Composites, Disaster Management, Hyper Spectral and SAR Data Processing, Camouflaged Target Detection, Super Resolution Mapping, Satellite Image Processing Artificial Intelligence, Cementitious Products, Tall Buildings and Non-Linear Analysis using Finite Element Method, Rock Mechanics, Pile Foundation, Earthquake Technology, IPR Laws, Fluid Mechanics, Natural Disaster Mitigation, Pavement Geotechnology, Ground Improvement Technique, Traffic and Transportation Engineering, Seismic Analysis of Dams and Slope Stability Studies, Disaster Biofortified Concrete, Hazard Analysis and Risk Assessment, Damage Detection In Concrete Using SHM, Rural Housing, Wind Engineering, Micro Zonation

## Faculties Provided with Financial Support to Attend Conference/Seminar/ Symposia/ Workshop/ STC/ FDP/ Training etc. during Current Year:

Dr. Shilpa Pal received ₹ 3,500/- to attend the 1<sup>st</sup> International Conference on “Innovations in Smart and Sustainable Infrastructure- ISSI 2022”, from 23<sup>rd</sup> to 25<sup>th</sup> August 2022, organized by Pandit Deendayal Energy University, Gandhinagar, Gujarat.

## Participation in Professional Development Programmes by Faculties:

### PARTICIPATION IN PDPS

**Dr. Shilpa Pal**

Participated in the Training Program on “Machine Learning for Optimal Process Design and Development: Techniques and Tools in Python”,

**Organizer:** Gautam Buddha University, Greater Noida

**Duration:** 5<sup>th</sup> – 10<sup>th</sup> June, 2023

Participated in the “ISO 9001:2015 Internal QMS Auditor Training Course”

**Organizer:** IQAC, DTU in collaboration with STQC EDTC Solan

**Duration:** 19<sup>th</sup> - 21<sup>st</sup> July, 2023

Attended the Training-of-Trainers Workshop on “Structural Steel Design for Earthquake Forces”

**Organizer:** NDMA & IIT Mumbai

**Prof. Awadhesh Kumar**

## Visit of Faculty to other University/Institution for Expert Lectures/Academic Work:

### EXPERT LECTURES

**Prof. S. Anbu Kumar**

**Program:** An industrial visit to Jawaharlal Nehru Port Trust in Mumbai, to demonstrate the practical aspects of port operation infrastructure to the students

**Duration:** 11<sup>th</sup>-12<sup>th</sup> April, 2023

**Dr. Pradeep Kumar**

**Program:** Delivered a lecture on “Cyclonic Risk Assessment” in the second International Conference in Construction Engineering, held at the Higher Institute of Earthquake Studies and Research, Damascus University, Syria

**Duration:** 28<sup>th</sup>-30<sup>th</sup> November, 2022

**Program:** Delivered a lecture on “Ethics and Values in Technicaleducation” in National Seminar organized by NITTTTR, Bhopal and RGPU, Bhopal

**Duration:** 23<sup>th</sup>-25<sup>th</sup> March, 2023

**Dr. Shilpa Pal**

**Program:** Delivered an online expert talk on “AQAR Preparation on the framework of NAAC” in NAAC sponsored National Seminar on “Role of NAAC in Quality Enhancement in Higher Educational Institutions” organized by IMS Engineering College, Ghaziabad

**Date:** 29<sup>th</sup> April 2023

**Program:** Delivered an expert talk on “Conceptual Design for EQ resistant buildings and Do’s and Don’ts before, during and after earthquakes” in the “Regional Capacity Building Program on Inspiring the Minds for Disaster Risk Reduction” organized by Gautam Buddha University, Greater Noida, and Institutions Network on Disaster Risk Reduction (IUINDRR), NIDM, Delhi

**Date:** 7<sup>th</sup> February, 2023

**Program:** Delivered an online expert talk on “Damage Detection using SHM” in the International Conference on Construction Engineering Towards More Sustainable Structures 2022 (ICCE 2022) held in Damascus, Syria

**Date:** 28<sup>th</sup> November, 2022

**Events organized by the Department:**

Organized a Motivational talk (Co-ordinator - Dr. Shilpa Pal) on “Being Entrepreneur” by successful Entrepreneur/start-up founder, Sh. Narayn Singh Rao on 10<sup>th</sup> Nov, 2022 under the aegis of IIC Activities in collaboration with IAStructE-DTU.

Organized a Technical Introduction Session (Co-ordinator - Dr. Shilpa Pal) on “MIDAS” in collaboration with IAStructE, DTU Student Chapter on 8<sup>th</sup> September, 2022 by Speaker Er. Anubhav Tyagi M.Tech (IIT Roorkee) and Sh. Abhishek (DTU Alumnus).

Organized a Workshop (Co-ordinator - Dr. Shilpa Pal) on "Design and Analysis of Structures with STAAD Pro & Revit Software", in collaboration with IAStructE, DTU Student Chapter and Shape My Skills on 28<sup>th</sup> Feb, 2023.

Celebrated “Earth Day Event-2023” (Co-ordinator - Dr. Shilpa Pal and Prof. Raju Sarkar) on 24<sup>th</sup> April, 2023 under the aegis of IIC Activities in collaboration with IAStructE-DTU which featured a lecture by Dr. Suman Chahar, an expert speaker and social activist from the Indcare Development Foundation, Extempore Competitions, and Painting Competition conveying a message of environmental consciousness.

Conducted a Site Visit to RESISTOFLEX Corporate House Site Visit (Noida), on 17<sup>th</sup> November, 2022 for M. Tech (STE) first base isolated building in Noida. Activity Coordinated by Dr. Shilpa Pal and Sh. G. P. Awadhiya accompanied the students for site visit.

## Faculties Provided with Financial Support to Attend Conference/Seminar/ Symposia/ Workshop/ STC/ FDP/ Training etc. during Current Year:

### FUNCTIONAL MOU

MoU was signed with CSIR-CRRI in 2022 for a period of 5 years

Activities under the MoU included joint academic, research and development in Road, Transportation Engineering, GIS application in Transportation, Urban and Regional Planning, Road Network Planning, Environment Pollution (Air and Noise), energy efficient and sustainable transport and other allied research etc.





## 4.6 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Prof. Vinod Kumar**  
HoD

### ACADEMIC PROGRAMMES

#### **B. Tech. (CSE)**

Intake : 481  
Admitted : 481

#### **M. Tech. (CSE)**

Intake : 30  
Admitted : 30

#### **M. Tech. (Artificial Intelligence)**

Intake : 30  
Admitted : 30

**Ph.D. : 8**

### SALIENT FEATURES

The department of Computer Science and Engineering endeavours to provide the thrill of a corporate R & D environment with a planned focus on industrially relevant projects and technology incubation. The curriculum defined, lays greater emphasis on design principles and development of system software for operating systems, data base management systems, data mining, computer graphics and networks. Currently the department offers Doctorate, Post - graduate & Under- graduate courses in the fields of Computer Engineering. The department also has active student chapters of Computer Society of India (CSI) and Society of Software Engineering which contribute significantly in professional activities undertaken by IEEE and IET student's chapters.

### RESEARCH PUBLICATIONS

**JOURNALS**

**165**

**CONFERENCES**

**125**

**BOOK CHAPTERS**

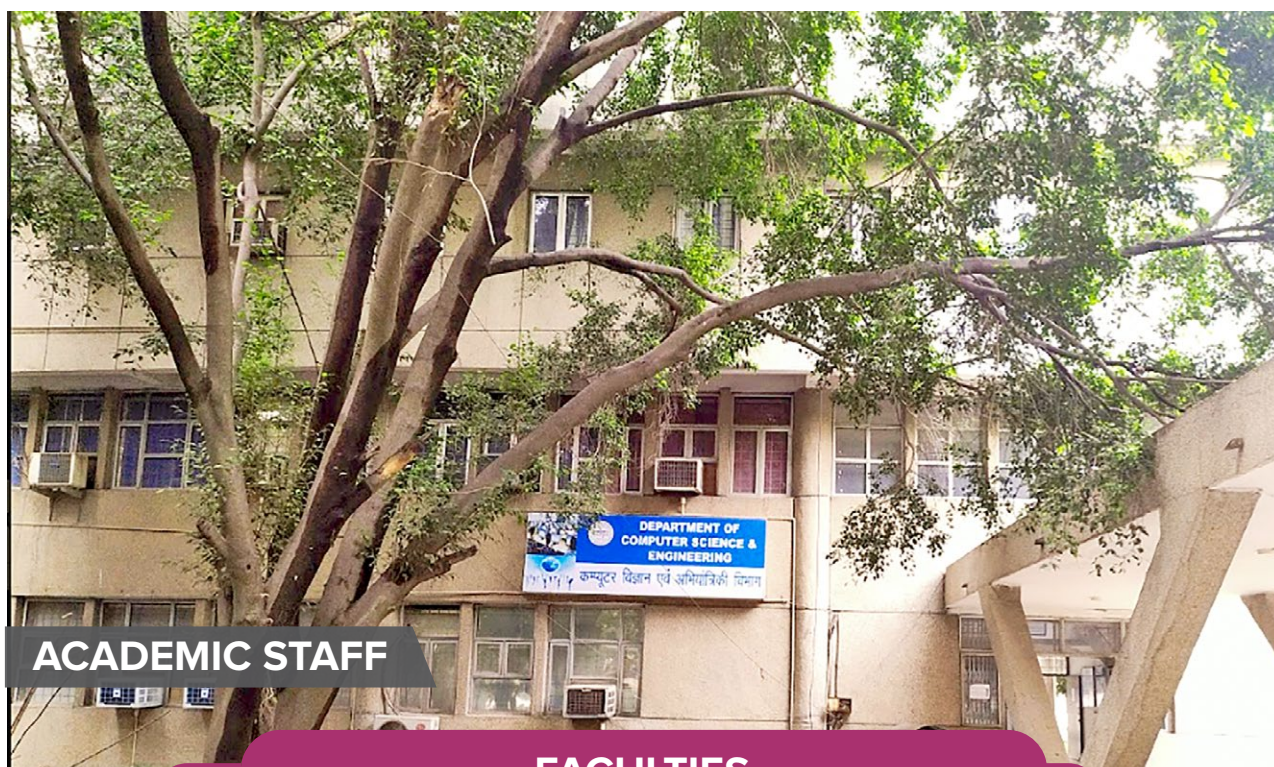
**27**

**BOOKS**

**1**

### LABORATORIES

Department has developed state-of-the-art laboratories in the various fields of Computer Engineering- Computer Architecture Lab, Computation Lab and programming Lab, Artificial Intelligence Lab, Linux Android Network Systems Lab, Samsung Digital Research Academy Lab and Big Data Lab, many others.



## ACADEMIC STAFF

### FACULTIES

#### Professors: 07

- Prof. Vinod Kumar (HoD)
- Prof. Rajni Jindal
- Prof. Daya Gupta (Emeritus)
- Prof. Manoj Kumar
- Prof. Anil Singh Parihar
- Prof. Rahul Katarya
- Prof. Shailendra Kumar

#### Associate Professor: 01

- Dr. Aruna Bhat

#### Programmer

- Dr. Manoj Sethi

#### Assistant Professors: 14

- Dr. R. K. Yadav
- Dr. Rohit Beniwal
- Ms. Minni Jain
- Mr. Nipun Bansal
- Dr. Sanjay Kumar
- Dr. Prashant Giridhar Shambharkar
- Dr. Anurag Goel
- Mr. Kavinder Singh
- Dr. Rajeev Kumar
- Dr. Pawan Singh Mehra
- Ms. Anukriti Kaushal
- Dr. Ashish Girdhar
- Ms. Gull Kaur
- Ms. Garima Chhikara

#### AREAS OF INTEREST

Computer Network, Database Systems, Data Mining and Operating Systems, Software Engineering, Artificial Intelligence, Information Security, Big Data Analytics, Machine Learning, Pattern Recognition, Computer Vision, Soft Computing, Image, Evolutionary Computing, and Biometric, Social Networks Analysis, Human Behavior, Multimedia Systems, Internet Technologies, Web Mining, Campus Incubators, Wireless Sensor Network, Theory of Computation, PCA, Real Time Systems, Programming Fundamentals, Mobile Health Monitoring, Semantic Web, Steganography, Reversible Data Hiding, Deep Fakes, Natural Language Processing, Cryptography Security, Quantum Computing, Blockchain, Data Structures and Algorithm, Deep learning.

## Achievements of the Department:

- Two patents are granted in the name of Dr. Rajeev Kumar.
- Financial services company; Kotak Mahindra Bank has appointed Mr. Rohit Bhasin (DCE Alumni, B.E. 1996 Computer Science) as its President and Chief Marketing Officer.
- Mr. Rohit Chadda (DCE Alumni, B.E. 2005, Computer Engg) has been featured among the Top Tech CEOs of the decade (2010-2020) in India and was appointed as President & COO for Times Network's digital business in 2022 where he has been credited for turning around the business making it the largest video news platform in the country with a best reach of over 20 billion views every year.
- Coding Minutes, an Online learning platform bootstrapped by Prateek Narang (DTU Alumnus, B.Tech. 2016, and Computer Engg.) is acquired by Scalar Academy (Interview Bit) for \$1 million in an all-cash deal.
- Six students of team "Refrain-Addiction" have won Morgan Stanley's CodeToGive Hackathon India 2023 in the Track: BREADS - Bangalore.
- Mr. Shrey Dubey, CSE - Class of 2023, received offers for Software Engineer at Tower Research Capital, QuadEye, and Google.
- Three Students joined the M.S. programme in the world's top-ranked universities.
- A total of 432 full-time placement offers are made by the companies.
- Maximum CTC of 82.05 lacs and Average CTC of 23.70 lacs have been offered by the companies.
- Highest stipend of ₹ 1.5 Lacs/month is offered by Tower Research Capital.
- For internships with the average stipend of ₹ 50,000/- month are offered.
- Many B.Tech. students have published papers in reputed international journals/conferences.

## Events organized by the Department:

Dr. Pawan Singh Mehra and Dr. Ashish Girdhar organized an online session on "Accelerators/Incubation Opportunities for Students and Faculties Early Stage Entrepreneurs" on 20<sup>th</sup> August, 2022.

Dr. Sanjay Kumar, Dr. Rajeev Kumar, and Dr. Pawan Singh Mehra organized an STP on "Demystifying Intellectual Property for Research Integrity and Economic Development" with a total of 135 participants.

## Awards and Recognition at State, National, International level from Recognised Bodies:

### RESEARCH EXCELLENCE AWARDS

(DTU, Delhi on 6<sup>th</sup> April, 2023)

**Yearly Citation Award**  
Prof. Rahul Katarya

**Premier Research Award**  
Prof. Anil Singh Parihar

#### Commendable Research Awards

Prof. Anil Singh Parihar	Dr. Ashish Girdhar
Prof. Manoj Kumar	Dr. Pawan Singh Mehra
Prof. Rajni Jindal	Dr. Rajeev Kumar
Dr. Aruna Bhat	Mr. Anurag Goel

## Faculties Provided with Financial Support to attend Conference/ Seminar/ Symposia/ Workshop/ STC/ FDP/ Training etc. during Current Year:

- Prof. Shailender Kumar received ₹ 7112/- for IEEE Annual Membership in the year 2023.
- Dr. Rajesh Kumar Yadav received ₹ 7134/- for the renewal of IEEE Membership in 2023.
- Mr. Anurag Goel received ₹ 456/- for IEEE Signal Processing Society (SPS) Membership and ₹ 1180/- for attending Symposium on “Computational Creativity 2023”, Organized by Infosys Centre of Artificial Intelligence, IIIT Delhi.
- Dr. Pawan Singh Mehra received ₹ 7131/- for the renewal of IEEE Membership and ₹ 3540/- for ISTE Life Membership during 2022-23.
- Mr. Nipun Bansal received ₹ 1,50,000/- for attending 4<sup>th</sup> International Conference on “Data Analytics & Management (ICDAM) 2023” at London Metropolitan University.
- Ms. Garima Chhikara received ₹ 10,000/- for National Institute of Technical Teacher Training and Research (NITTTR) Exam during 2022-23.
- Ms. Anukriti Kaushal received ₹ 2976 /- for participating in Ten days Live FDP on "Applied Deep Learning Computer Vision for Images & Video Analysis", Organized by Eduxlabs in Association with Mechanica, IIT Madras.
- Dr. Pawan Singh Mehra, Mr. Nipun Bansal, Ms. Minni Jain, Mr. Anurag Goel, Mr. Kavinder Singh and Ms. Anukriti Kaushal received ₹ 11,800/- (each) for attending Fifteen Days Industrial Training Program on “Cyber Security and Networking” conducted by ALTTC, BSNL, Ghaziabad during 6<sup>th</sup> – 22<sup>nd</sup> July, 2023.

## Participation in Professional Development Programmes by Faculties during Current Year:

- Dr. Pawan Singh Mehra attended and presented a paper in 8<sup>th</sup> IEEE International Conference on “Communication and Electronics System”, organized by PPG Institute of Technology, Coimbatore during 1<sup>st</sup> – 3<sup>rd</sup> June, 2023.
- Dr. Pawan Singh Mehra, Mr. Nipun Bansal, Ms. Minni Jain, Mr. Anurag Goel, Mr. Kavinder Singh and Ms. Anukriti Kaushal attended Fifteen Days Industrial Training Program on “Cyber Security and Networking”, conducted by ALTTC, BSNL, Ghaziabad during 6<sup>th</sup> – 22<sup>nd</sup> July, 2023.

- Dr. Pawan Singh Mehra and Dr. Rajeev Kumar attended Five days' Short Term Course on "Cyber Security: Managing Risk in the Information Age", organized by NIT, Jalandhar, sponsored by ISEA-II during 12<sup>th</sup> – 16<sup>th</sup> October, 2022.
- Dr. Pawan Singh Mehra attended and presented a paper in Third IEEE International Conference on "Intelligent Computing, Instrumentation and Control Technologies", at Vimal Jyothi Engineering College, Kerala on 11<sup>th</sup> -12<sup>th</sup> August, 2022.
- Dr. Sanjay Kumar attended Industrial Training on "AI and Deep Learning in Healthcare Data Analysis".
- Dr. Rohit Beniwal attended Industrial Training on "Salesforce Technology" and FDP on "Introduction to High Performance Computing (HPC) and its Applications in Artificial Intelligence".
- Dr. Aruna Bhat attended a FDP on "Women Entrepreneurship Development Programme" conducted by DST and Jamia Hamdard, Delhi.

### Visit of Faculty to other University/Institution for Expert Lectures/ Academic Work:

#### EXPERT LECTURES

##### Dr. Rajeev Kumar

**Event:** Invited Talk on "Need of Machine Learning"

**Organizer:** CSIR-Central Scientific Instruments Organization, Chandigarh in July 2023

**Event:** As a Keynote Speaker for title of "Prototype/Process Design and Development" in Two-Days Online Workshop

**Organizer:** Dr. B. R. Ambedkar National Institute of Technology, Jalandhar in April 2023

##### Dr. Sanjay Kumar

**Event:** Expert Talk on "Deep Learning Revolution: Unveiling the Real-Life Impact of Artificial Neural Networks for especially abled students"

**Organizer:** IGDTUW, Delhi in July 2023

**Event:** As a Keynote Speaker for title of "Supervised Machine Learning Techniques" in one day workshop

**Organizer:** Central University of Himachal Pradesh in January, 2023

##### Dr. Pawan Singh

**Event:** Expert Talk on "Internet of Everything" in the FDP on "Deep Learning and the Internet of Everything"

**Organizer:** Galgotias University and EICT-IIT Roorkee, from 12<sup>th</sup> -16<sup>th</sup> September, 2022

**Event:** International Webinar on "Quantum Cryptography"

**Organizer:** Center of Cyber Security and Big Data, Management and Science University, Malaysia on 5<sup>th</sup> May, 2023

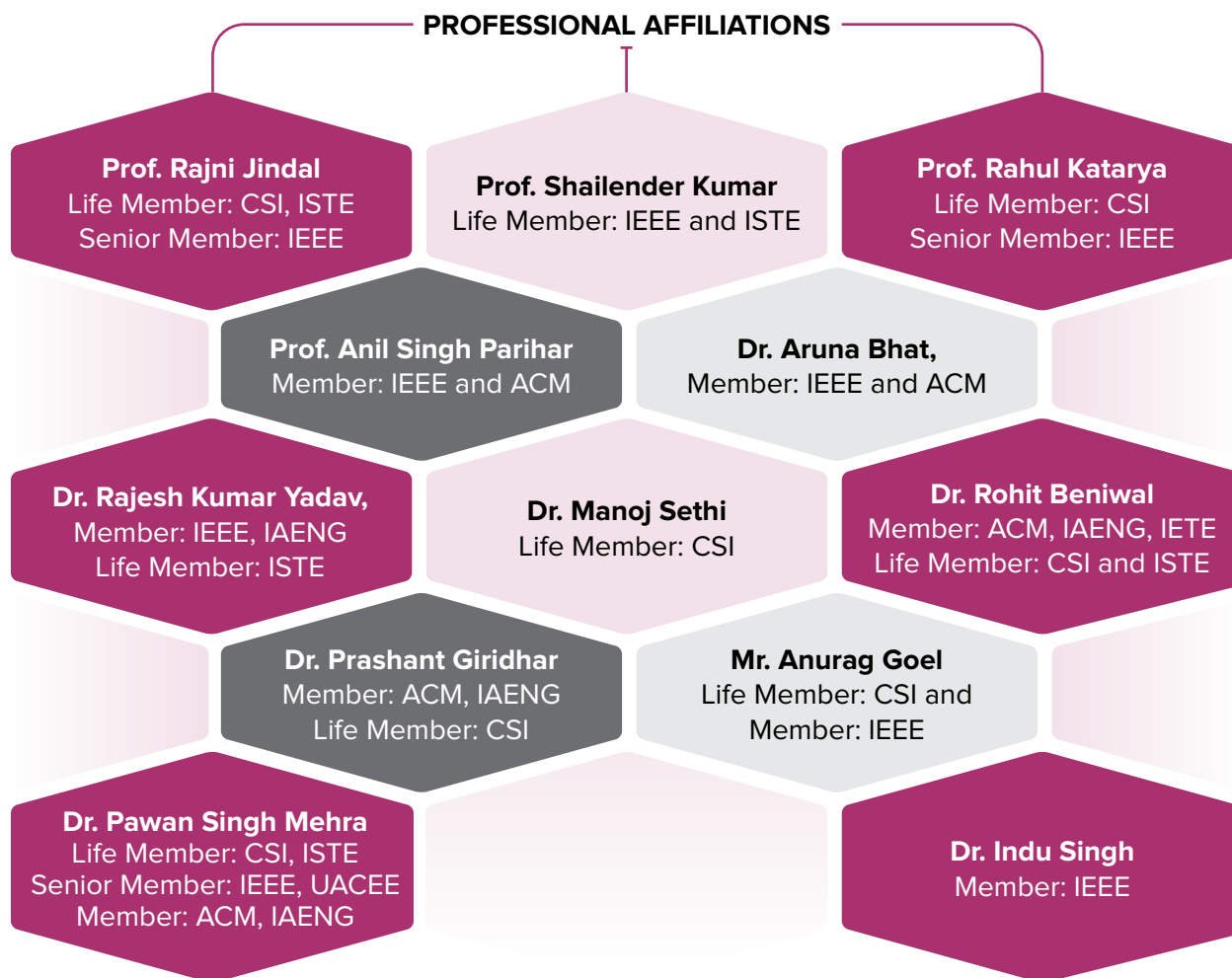
**Event:** Expert Talk on "Classical Gates to Quantum Logical Gates" for Summer School on "Quantum Computing and its Application",

**Organizer:** JIIT and Ramanujan College, University of Delhi, from 25<sup>th</sup> July - 6<sup>th</sup> August, 2022

**Event:** Expert Talk on "A Perspective on Programming & Security" for One Week Workshop on Cyber Crime and Cyber Security

**Organizer:** Jamia Millia Islamia, from 20<sup>th</sup>- 25<sup>th</sup> February, 2023

## Professional Affiliations:



**DEPARTMENT OF COMPUTER  
SCIENCE AND ENGINEERING  
DELHI TECHNOLOGICAL UNIVERSITY**

in collaboration with  
**Department of Science and Technology  
Government of India**

**Organising  
AN EXPERT TALK ON  
Role of DST in Innovation  
Incubation and Entrepreneurship**

**Tuesday 25<sup>th</sup> April, 2023**

<b>CHIEF PATRON</b>	<b>PATRON</b>	<b>SPEAKERS</b>
 Prof. Jai Prakash Saini Head of Dept. of CSE, DTU	 Prof. Madhusudan Singh Professor, DTU	 Mr. Sujit Banerjee Secretary, IIT
 Prof. Vinod Kumar Head of Dept. of CSE, DTU	 Prof. Rahul Katarya Professor, DTU, IIT	 Mr. Nipun Bansal Assistant Professor, Dept. of CSE, DTU
<b>CONVENER</b>	<b>ORGANIZER</b>	<b>COORDINATOR</b>

**11:30 am to 1:30 pm** | **Pragyan Hall, Admin Block, DTU**





## 4.7 DEPARTMENT OF DESIGN

**Prof. Ranganath. M. Singari**  
HoD

### ACADEMIC PROGRAMMES

#### B. Des.

Intake : 123  
Admitted : 122

#### M. Des. (Interaction Design)

Intake : 15  
Admitted : 12

#### M. Des. (Product Design)

Intake : 15  
Admitted : 8

#### M. Des. (Visual Communication)

Intake : 15  
Admitted : 11

#### M. Des. (Transport and Service Design)

Intake : 15  
Admitted : 5

**Ph.D. : 3**

### SALIENT FEATURES

Strategic role of design through innovation in enhancing national and industrial competitiveness is universally recognized and underpins the national policy of Govt. of India. The strategy to achieve this vision seeks spotlight on strengthening quality design education and usages of design in different sectors. In furtherance of this national design vision, Delhi Technology University had decided to provide facilities for excellent design education, research and training to suit the needs of the society. The Department of Design is envisioned to pursue excellence in design thinking, design scholarship and design practice for the betterment of society in a holistic manner. Design is viewed as a driver of innovation and is recognized as a key differentiator for providing competitive edge to products and services. It involves an integrated humanistic approach to design products, it involves an integrated humanistic approach to design products, service and system. It seeks to delve deeper in understanding of technological, Commercial and societal context in connection. Development and delivery of innovatives products and services as well as tools, techniques and methods required in the practice of design suitable to the environment.

### DEPARTMENT FACILITIES

- Product Design Studio
- Interaction Design Studio
- Fashion Design Studio
- Photography and Videography Studio
- Computer Graphics Studio
- Visual Communication Studio
- Center for Industrial Design and Ergonomics
- Multiple Activity Hall
- Conference Hall
- Design Workshop
- Open Air Theater
- Knowledge Resource Center
- BOS Meeting Hall
- VIP Room
- Medical Facility Room
- Kitchen with Tea and Coffee facility
- Store Room
- Maintained Clean rooms and Drinking Water Facilities
- Open Class room facilities inside and outside the building



## ACADEMIC STAFF

### FACULTIES

#### Professors: 02

- Prof. Ranganath M. Singari (HoD)
- Prof. Lalit Kumar Das (Honorary)

#### Assistant Professors: 05

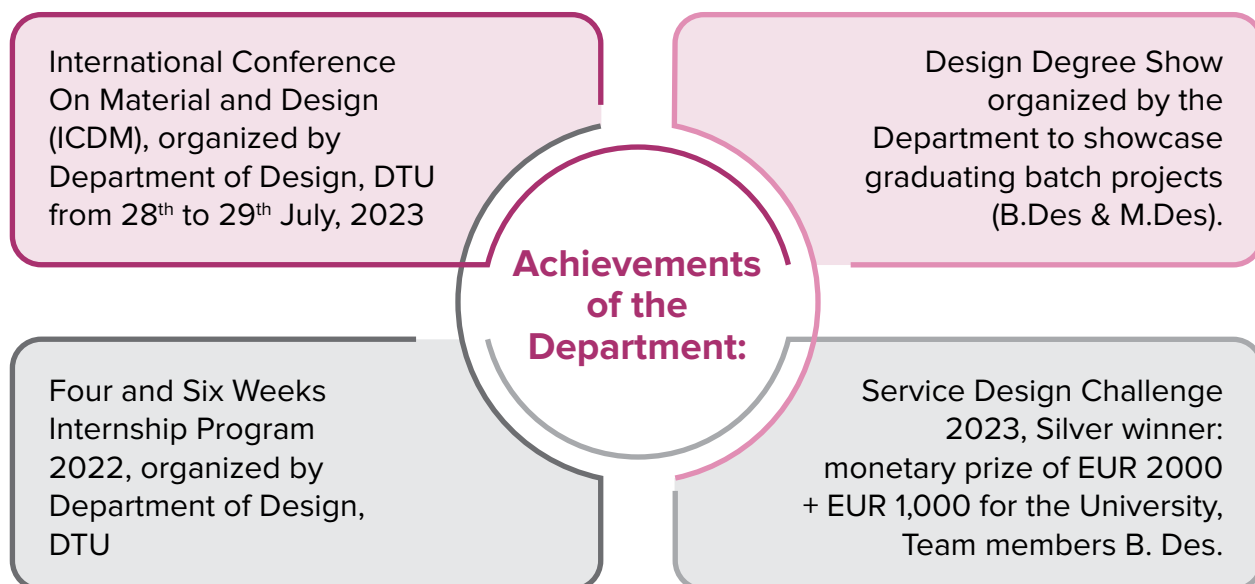
- Mr. Neeraj Rathee
- Mr. Partha Pratim Das
- Mr. Varun Singh
- Ms. Taruna Singh
- Dr. Ravindra Singh

#### Design Educator: 02

- Mr. S. G. Ranjan
- Mr. Arunotpal Thakur

### AREAS OF INTEREST

CAD/CAM, Product Design, Industrial Engineering, Innovative Design, Physical and Cognitive Ergonomics, Sustainability, Universal Design, Human Centric Design, Human Centric Design, UI/UX, Design Thinking, Ethnographic Research, Art and Pedagogy, Digital Design, Storytelling and Narratives, Accessory Design, Product, Craft Innovation, Interaction Design, Visual Communication, Transportation Design, Lifestyle Accessory Design.



### Participation in Professional Development Programmes by our Faculties:

**Mr. Partha P. Das**  
**Mr. Neeraj Rathee**  
**Mr. Varun Singh**

Completed NITTTR 8 Modules (AICTE) under National Initiative for Technical Teachers Training (NITTT)

### Faculty Visit to other Institutions for Experts Lectures/Academic Works:

#### FACULTY VISIT

##### Prof. Ranganath M Singari

Governing body member, ANDC, Delhi University

Design Expert Member with NSUT, IPU, CSIR and other Institutions

##### Dr. Ravindra Singh

Panel Member for "Design Premiere 2023", the annual design showcase at India Habitat Centre from 23<sup>rd</sup> -26<sup>th</sup> May, 2023

Invited for Expert lecture at AVANTIKA University, Ujjain.

Governing Panel Member: Assistive Technology & Orthotics Special Interest group.

Editorial Board Member: Design for all institute of India

Jury Member; National Institute of Design, Haryana  
BoS Member; UP institute of Design, Noida

## Awards and Recognition at State, National, International level from Recognised bodies:

**Dr. Ravindra Singh**

Design Drona Award  
2023 for Excellence  
in Teaching

Distinguished Alumni Award  
2023 at Hindustan College of  
Science & Technology

**AWARDS  
FOR  
INNOVATION**

Service Design  
Challenge 2023  
Silver Winner

Monetary  
prize of EUR  
2000 + EUR 1,000  
for the University,  
Team members -  
BDes

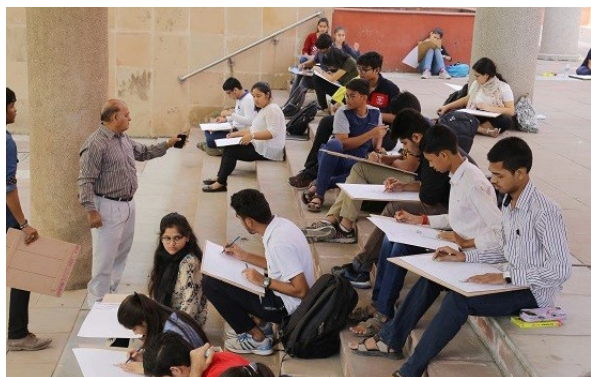
## Student Progression to Higher Education:

### STUDENT PROGRESSION TO HIGHER EDUCATION

**Ms. Yati Sharma**  
RCA, London

**Master in Design**

**Ms. Gopika**  
RMIT, Australia





## 4.8 DELHI SCHOOL OF MANAGEMENT

**Prof. Ranganath. M. Singari**  
HoD

### ACADEMIC PROGRAMMES

#### MBA

Intake : 150  
Admitted : 150

#### MBA (Executive)

Intake : 75  
Admitted : 27

Ph.D. : 5

### RESEARCH PUBLICATIONS

JOURNALS

**32**

CONFERENCES

**08**

### SALIENT FEATURES

Delhi School of Management (DSM) was established in 2009, with Delhi College of Engineering (DCE) acquiring University status, being officially renamed as Delhi Technological University (DTU) through a legislature passed by the Delhi State Assembly. DSM envisages at developing distinctive future managers, keeping up with the tradition of DCE (and now DTU) by providing excellent world-class education. DSM was established with the vision of inculcating a penchant for innovation, research, and experimentation in aspiring managers. DSM aims to extend the seven-decade-long legacy of DCE by incubating and developing technomanagers who are adept at identifying pertinent and critical business problems and applying their technical skills and competencies in solving those issues. To train its students to face the challenges of an information and knowledge-driven work environment, DSM provides them with the Triple E: Education, Experience, and Exposure. DSM strives to inculcate its students' managerial competence through specialized knowledge and skills while simultaneously empowering their minds through quality teaching, consultancy, and other professional services to fulfil its role of a vibrant and model institution capable of imparting quality education in the area of Management Studies. DSM envisions developing a knowledge society by providing equitable access to the masses and broadening the span of their participation in the areas of higher education.

### DEPARTMENT FACILITIES

Delhi School of Management has access to a wide array of world-class facilities that include a fully equipped Computer Centre, a chain of scientifically advanced Research Laboratories, Smart Classrooms with State-of-the-Art audio and video support, a fully Centralized Library with a plethora of available volumes, an Auditorium with a capacity of over a thousand, an Open-Air Theatre, and a fully developed Sports Centre.



## ACADEMIC STAFF

### FACULTIES

#### Professors: 03

- Prof. Pradeep Kumar Suri
- Prof. Rajan Yadav
- Prof. G. C. Maheshwari (Honorary)

#### Associate Professors: 02

- Dr. Archana Singh (HoD)
- Dr. Saurabh Agarwal

#### Assistant Professors: 09

- Dr. Shikha N. Khera
- Dr. Vikas Gupta
- Dr. Deepali Malhotra
- Dr. Deep Shree
- Dr. Chandan Sharma
- Dr. Mohit Beniwal
- Mr. Yashdeep Singh
- Mr. Dhiraj Kumar Pal
- Dr. Meha Joshi

#### AREAS OF INTEREST

E-Governance, IT Management, Business Analytics, Services Marketing, Sales and Distribution, Corporate Finance, Security Analysis, Chain Management, Reverse Logistics, Industrial Engineering, Data Analytics, Organizational Behaviour And Organizational Development, Knowledge Management, Innovation Management, Business Process Re-Engineering, Customer Relationship Management, Talent Management, Finance, International Business, Strategy Management, International Business, Brand Management, Qualitative Research, Marketing Management, Information Technology Management, Operations & SCM, Strategy

## Achievements of the Department:

- The Department got NBA accreditation on 1<sup>st</sup> July, 2022 for Three years.
- DSM and National Informatics Centre signed an MoU to explore the opportunities to collaborate in the field of data science.
- DSM Students participated in inter-university sports.

## Events organized by the Department:

- DSM organized a Guest Lecture with Ms. Jyotsna Yadav, Joint Director (Competition Commission of India) on 22<sup>nd</sup> February, 2023.
- DSM organized an International Conference on “Business and Management’ 23” during 19<sup>th</sup> – 20<sup>th</sup> January, 2023.
- Dr. Meha Joshi Conducted a workshop on "HR skills for bilateral ties" on 28<sup>th</sup> September, 2022.

## Participation in Professional Development Programmes by Faculties during Current Year:

- Dr. Deepali Malhotra and Dr. Deep Shree have attended a Four-weeks faculty induction/ orientation program organized by TLC, Ramanujan College. 20<sup>th</sup> July – 18<sup>th</sup> August, 2022.
- Dr. Saurabh Aggarwal attended Two-weeks industrial Training organized by Priserive Private Limited in December, 2022.
- Dr. Deep Shree attended the Scale Construction & Development Program organised by Meerashpa Learning Solutions on 11<sup>th</sup> – 13<sup>th</sup> November, 2022.
- Dr. Archana attended a Two-weeks industrial Training organised by DMG Mori India Private Limited in June, 2023.

## Faculty Visit to other Institutions for Expert Lecture/Academic Work:

### FACULTY VISITS TO OTHER INSTITUTIONS

#### Dr. Archana

Delivered an Expert Lecture on “Financial Management in Scientific Organizations for Scientists and Technologists” in January, 2023

#### Prof. P. K. Suri

A resource person in the Training Programme of Government Officers at the Institute of Secretarial Training and Management on 8<sup>th</sup> September, 2022

Delivered an online lecture as an External Expert in the Synopsis Confirmation Seminar for the Indian Institute of Foreign Trade on 4<sup>th</sup> August, 2022

As a Member of the Interview Panel, MBA Admissions to Department of Management Studies, IIT Delhi on 7<sup>th</sup> March, 2023.

**Dr. Sonal Thukral**

A resource person in FDP  
from 8<sup>th</sup> – 23<sup>rd</sup> July, 2022

Delivered a lecture for University  
of Puerto Rico in online mode  
on 3<sup>rd</sup> December, 2022

**Dr. Saurabh Agrawal**

Delivered an expert talk in KaryaShala for PEC  
Chandigarh on 24<sup>th</sup> – 25<sup>th</sup> February, 2023

**Dr. Deepali Malhotra**

Chaired a technical session in 2<sup>nd</sup> International  
Conference at GRFCG on 10<sup>th</sup> – 11<sup>th</sup> September, 2022

### Faculties Provided with Financial Support to attend Conference/ Seminar/ Symposia/ Workshop/ Short Term Course/ FDP/ Training etc.

Name of Faculty	Title of Event	Amount of support (₹)	Date(s)
Dr. Archana Singh	Corporate Board Composition and Earnings Management: A meta-analysis	6,000/-	28 <sup>th</sup> – 29 <sup>th</sup> October, 2022
Dr. Deepali Malhotra	Qualitative Research Methods using Nvivo and Maxqda	1,200/-	11 <sup>th</sup> – 17 <sup>th</sup> May, 2023.
Dr. Deepali Malhotra	Global Research Foundation for Corporate Governance (GRFCG)	2,500/-	10 <sup>th</sup> – 11 <sup>th</sup> September, 2022
Mr. Dhiraj Kumar Pal	Workshop on Econometrics using R and Python	1,500/-	21 <sup>st</sup> – 25 <sup>th</sup> November, 2022
Mr. Mohit Beniwal	Applied Artificial Intelligence and Computing, Narasu's Sarathy Institute of Technology (NSIT), Salem, Tamil Nadu	7,500/-	4 <sup>th</sup> – 6 <sup>th</sup> May, 2023
Mr. Mohit Beniwal	Financial Market and Corporate Finance (ICFMC 2023), IIT Delhi	10,000/-	6 <sup>th</sup> – 8 <sup>th</sup> July, 2023
Dr. Chandan Sharma	Online Faculty Induction Programme, Ramanujan College, University of Delhi	1,950/-	20 <sup>th</sup> July – 18 <sup>th</sup> August, 2022
Dr. Meha Joshi	24 <sup>th</sup> Annual Convention of the Strategic Management Forum, Institute of Rural Management Anand (IRMA), Gujarat	27,897/-	21 <sup>st</sup> – 23 <sup>rd</sup> December, 2022

### Awards and Recognition at State, National, International level from Recognised Bodies:

#### Research Excellence Awards (DTU, Delhi on 6<sup>th</sup> April, 2023)

##### Highly Cited Paper Award

Dr. Saurabh Agarwal

##### Commendable Research Awards

Prof. P.K. Suri  
Dr. Saurabh Agarwal  
Dr. Vikas Gupta  
Mr. Yashdeep Singh





## 4.9 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**Prof. O. P. Verma**  
HoD

### ACADEMIC PROGRAMMES

**B. Tech. (ECE)**

Intake : 241  
Admitted : 241

**M. Tech.  
(VLSI Design and  
Embedded Systems)**

Intake : 25  
Admitted : 23

**M. Tech.  
(Signal Processing  
and Digital Design)**

Intake : 25  
Admitted : 10

**Ph.D. : 13**

### RESEARCH PUBLICATIONS

**JOURNALS**

**156**

**CONFERENCES**

**90**

**BOOK CHAPTERS**

**7**

### SALIENT FEATURES

Since its establishment in 1976, the Department of Electronics and Communication Engineering has experienced significant expansion. The department's primary goal is to foster innovation in electronic design and fabrication, as well as communication technologies, to tackle the emerging challenges of the future. Our objective is to cultivate a sustainable and ever-evolving environment that encompasses science, technology, and education on a global scale while remaining pertinent to industry demands. The department provides undergraduate, postgraduate, and doctoral programs (B. Tech, M. Tech and Ph.D.) to cater to a diverse range of educational needs.

At present, the department has an annual intake of 241 + 37 (NRI) students in the B. Tech program for Electronics and Communication Engineering, along with 60 students in M. Tech programs with specializations in VLSI Design & Embedded Systems, and Signal Processing & Digital Design. The curriculum places a significant emphasis on hands-on training and industrial experience in cutting-edge technology areas. The Department currently boasts 12 well-equipped UG curriculum laboratories, 2 PG laboratories, 3 Research laboratories and 1 Industry Sponsored Design Lab.

The educational program is designed to foster a deep understanding of fundamental principles and the latest knowledge in the field. The postgraduate programs also emphasize a profound comprehension of core principles and contemporary developments, with offerings including M. Tech. degrees in VLSI Design and Embedded Systems, Signal Processing and Digital Design, and Microwave and Optical Communication.

Furthermore, the Department has placed significant emphasis on promoting high-quality research. Scholarships are available for Ph.D. programs in Electronics and Communication, covering a wide range of specialized areas, such as VLSI, Embedded Systems, DSP, Image Processing, Microstrip antenna design, RF & Microwave Engineering, Sensor Networks, ML, DL & AI, Computer Vision, Robotics, Wireless Communication, Optical Communication, Nanoelectronics, Speech Processing, and Analog and Digital System Design.

## SALIENT FEATURES Cont.

Faculty members of the department have been regularly contributing to International and National Journals of repute from publishers like IEEE Transactions, IET, Wiley, Springer, Elsevier, etc., along with the Proceedings of National and International Conferences. The department is also actively involved in professional activities undertaken by IEEE Delhi chapters. Several popular technical books and chapters have been authored by the faculty members of the department. Some faculty members have applied for patents for their research findings. The Department of Electronics and Communication Engineering at Delhi Technological University has developed into one of the best departments of the University. The placement trend has shown that the department's students have successfully gotten lucrative jobs and internships based on their interests in different fields.

Leading corporations/companies such as Oracle, Texas Instruments, Intel, Qualcomm, Synopsis FTE, Airtel, Ansys, Western Digital, Nvidia, Uber, NXP Semiconductor, C-DoT, Deutsche Bank, Razor Pay, Piramal Group, Microsoft, Vedanta Resources Ltd., Accenture, Adobe Emerge, Tata Motors, HCL, Genpact, Paytm, Sprinklr, KPMG, Euler Motors, Paisa Bazaar, Adobe, ST Microelectronics, Google H/W, Ciena, Deloitte India, Expedia, BNY Mellon, Publicis Sapient, BEL, Disney+ Hotstar, ICICI Bank, Advantage Club, ZS Associates, Navi, Nucleus, and HBSS are among the prominent recruiters, offering opportunities, including internships, for students pursuing Electronics and Communication Engineering (ECE).

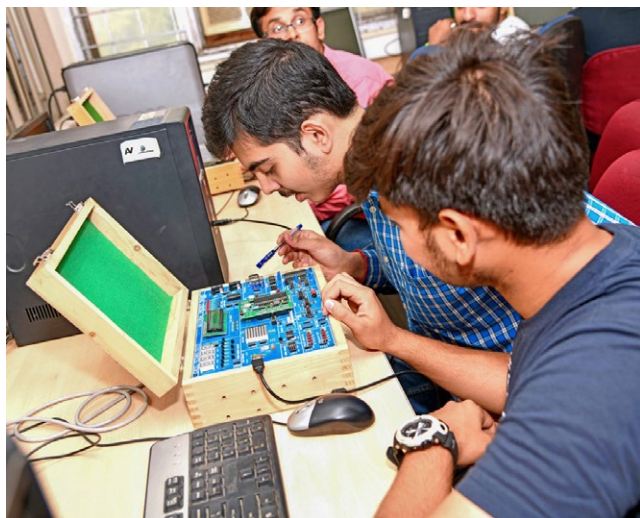
The average package offered to the B. Tech and M. Tech students of this department is about 18 Lacs and 23 Lacs per annum, while the maximum CTC for B. Tech and M. Tech students of 51.03 Lacs and 38.67 Lacs, respectively. Other recruiters from allied sectors have also recruited students from this department with attractive packages. This consistent placement record illustrates the commitment and contribution of this department to the success story of the University. The graduates of the department are occupying important positions in both governments as well as the corporate sector, with many of them having joined programs of higher studies in India and abroad.

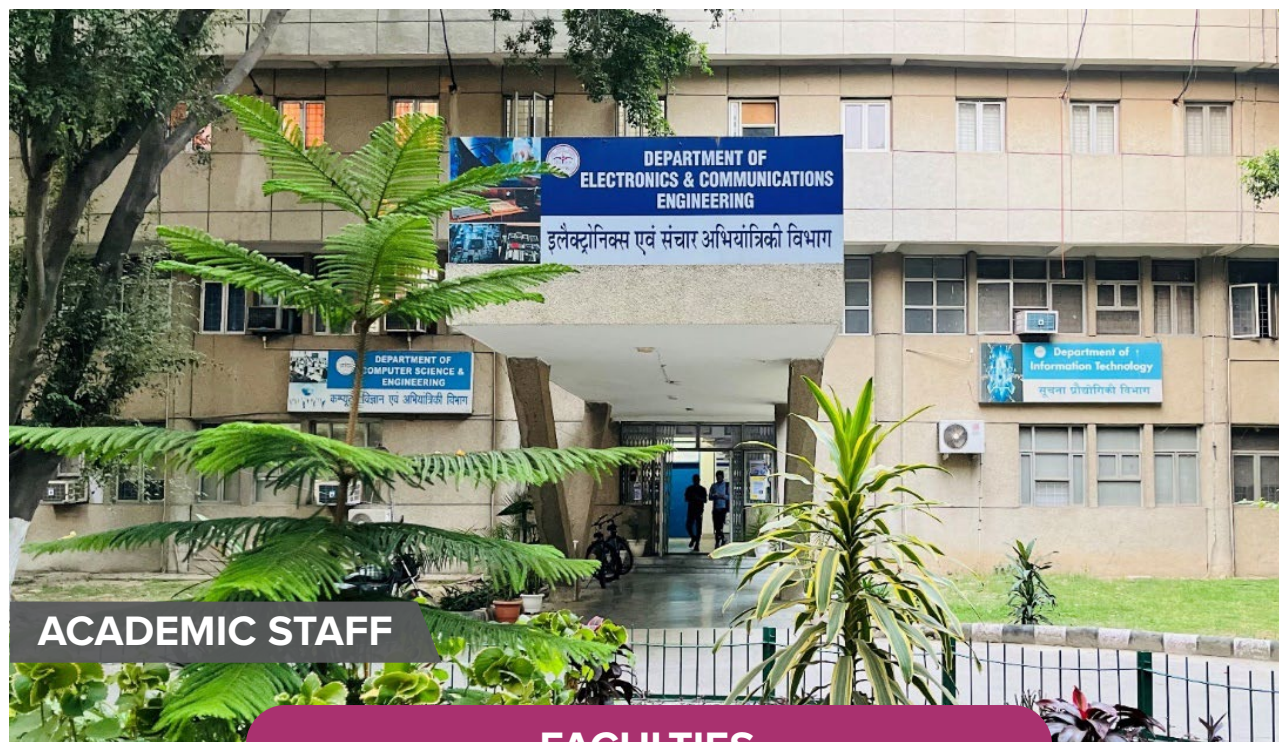
The Department regularly organizes seminars, workshops, and training programs in online and offline modes to keep pace with the new developments and recent trends in relevant technologies. The department also conducted various FDPs/STTPs, workshops, and webinars to improve the quality of the faculties/teachers and staff by training and to enable the faculty members of various institutions/universities to be abreast with contemporary research methods, teaching techniques, pedagogical advancements, bridge the gap between industry and academia and focused discussions on contemporary advancements in the technical disciplines.

Apart from these activities, the students are encouraged to organize and participate in various technical and social activities under the aegis of the IEEE student branch and Robotics Society. Technical fests are organized under the IEEE student branch (TROIKA) and Robotics Society. They are also encouraged to participate in various group learning and discussion activities and present seminars and term paper presentations.

### LABORATORIES

The Department has well established and equipped eighteen laboratories, such as; PCB, Telecommunication, Robotic & Machine Learning, Optical Communication, Microwave CAD, Microwave, UAS, Digital Electronics, VLSI CAD, Microprocessor, Advance Digital Signal Processing, Linear Integrated Circuits, Freescale, Computer Vision, Electronic Devices & Circuit - I, Electronic Devices & Circuit - II, Circuit Fabrication and Industrial sponsored Design Lab.





## ACADEMIC STAFF

## FACULTIES

### Professors: 13

- Prof. O. P. Verma (HoD)
- Prof. Asok De
- Prof. Rajiv Kapoor
- Prof. S. Indu
- Prof. Rajeshwari Pandey
- Prof. Neeta Pandey
- Prof. Dinesh Kumar
- Prof. Jeebananda Panda
- Prof. Rajesh Rohilla
- Prof. M. S. Choudhary
- Prof. Poornima Mittal
- Prof. Priyanka Jain
- Prof. Alok Kumar Singh

### Associate Professor: 01

- Dr. Rajesh Birok

### Assistant Professors: 31

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Dr. Deva Nand</li> <li>• Dr. N. Jayanthi</li> <li>• Dr. Sudipta Majumdar</li> <li>• Dr. Avinash Ratre</li> <li>• Dr. Ajai Kumar Gautam</li> <li>• Dr. Malti Bansal</li> <li>• Dr. Yashna Sharma</li> <li>• Mr. Piyush Tewari</li> <li>• Mr. Anurag Chauhan</li> <li>• Ms. Kriti Suneja</li> <li>• Mr. Sumit Kumar Khandelwal</li> <li>• Dr. Rohit Kumar</li> <li>• Mr. Sachin Dhariwal</li> <li>• Mr. Akshay Mann</li> <li>• Mr. Lokesh Gautam</li> <li>• Mr. Rahul Thakur</li> </ul> | <ul style="list-style-type: none"> <li>• Mr. Kaustubh Ranjan Singh</li> <li>• Dr. Sachin Taran</li> <li>• Dr. Sumit Kale</li> <li>• Dr. Sonal Singh</li> <li>• Dr. Anukul Pandey</li> <li>• Ms. Lavi Tanwar</li> <li>• Dr. Chhavi Dhiman</li> <li>• Dr. Sonam Rewari</li> <li>• Dr. Manjeet Kumar</li> <li>• Mr. M. Ganesh</li> <li>• Dr. Deepika Sipal</li> <li>• Dr. Harikesh</li> <li>• Mr. Varun Sangwan</li> <li>• Mr. Vinay Kumar</li> <li>• Dr. Pankaj Dahiya</li> </ul> |
|--|---|

## AREAS OF INTEREST

Image Processing, Evolutionary Computing Communication & Microwave, Computer Vision, Signal Processing, Instrumentation and Sensor Design. AI and ML, Sensor Networks, Microelectronics, Analog Circuits, Digital VLSI Design, Current Mode ADC Design, Soft Computing, Biometrics, Embedded System Design, Low Power VLSI, SRAM Memory Cell, Flexible Electronics, RF Microwave and Digital, Signal Processing, Communication Systems & Biomedical Electronics, Machine Learning, Optical Communication, Nanophotonic, IoT, Wireless Communication, Advanced Semiconductor Electronics, Mixed Signal Design, NLP, Control Systems.

## Achievements of the Department:

### NBA ACCREDITATION

**Program:** M.Tech. in VLSI Design & Embedded Systems

**Duration:** 2023-2026 (3 Years)

**Program:** M. Tech. in Signal Processing & Digital Design

**Duration:** 2023-2026 (3 Years)

### PLACEMENT

#### B.Tech.

##### Maximum CTC

51.03 Lacs

##### Avg. CTC

18.25 Lacs

##### Students Placed

155

##### Total Offers

172

#### M.Tech.

##### Maximum CTC

38.67 Lacs

##### Avg. CTC

23 Lacs

##### Students Placed

34

##### Total Offers

37

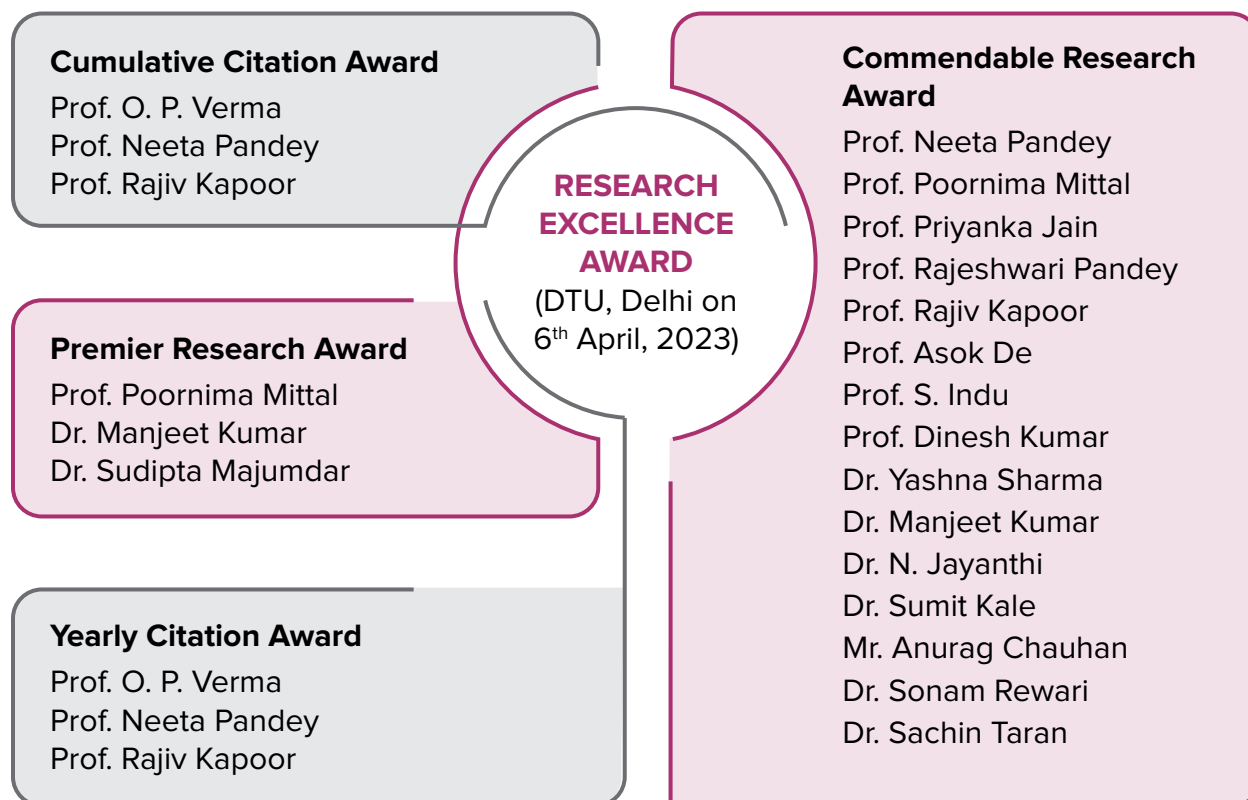
- 10 research scholars are awarded Ph.D. degree in 2022-23.
- 16 Faculty members of ECE Department received Citation Award/Research Excellence Award/Commendable Research Award/Premiere Research Award in the 6<sup>th</sup> Research Excellence Award.
- 17 Students of the ECE department received the Commendable Research Award in the 6<sup>th</sup> Research Excellence Award.

## Faculties Provided with Financial Support to attend Conference/ Seminar/ Symposia/ Workshop/ Short Term Course/ FDP/ Training etc. during Current Year:

- Dr. Yashna Sharma received ₹ 1,50,000/- for attending International Conference SPIE Optics+Optoelectronics, 2023, at Czech Republic, organized by SPIE Europe from 24<sup>th</sup> – 27<sup>th</sup> April, 2023.
- Ms. Kriti Suneja received ₹ 20,583/- for attending 2022 IEEE Global Conference on “Computing, Power, and Communication Technologies (GlobConPT)” during 23<sup>rd</sup> – 25<sup>th</sup> September, 2023.

- Ms. Kriti Suneja received ₹ 11,934/- for attending 2022 International Conference on “Computing, Communication, and Intelligent Systems (ICCCIS)” during 4<sup>th</sup> - 11<sup>th</sup> November, 2023.
- Following faculty members have received ₹ 11,800/- for attending Two Weeks Industrial Training Program on “Cyber Security and Networking”, organized by ALTTC, BSNL during 6<sup>th</sup> - 22<sup>nd</sup> July, 2023.
  - Mr. Piyush Tewari
  - Mr. Anurag Chauhan
  - Ms. Kriti Suneja
- Following faculty members have received ₹ 14,160/- for attending Two Weeks Industrial Training Program on “Internet of Things”, organized by NSIC Technical Services Center, Okhla, New Delhi during 12<sup>th</sup> – 26<sup>th</sup> June, 2023.
  - Dr. Pankaj Dahiya
  - Mr. Vinay Kumar
  - Mr. Sachin Dhariwal
  - Dr. Sumit Kale
  - Mr. Varun Sangwan
  - Mr. Rahul Thakur
  - Ms. Lavi Tanwar
  - Mr. Lokesh Gautam
  - Dr. Sonam Rewari
  - Dr. Sonal Singh
  - Dr. Chhavi Dhiman
  - Dr. Anukul Pandey
  - Mr. Sumit Kumar Khandelwal
  - Dr. Manjeet Kumar

### Awards and Recognition at State, National, International level from Recognised Bodies:



## Participation in Professional Development Programmes by Faculties during Current Year:

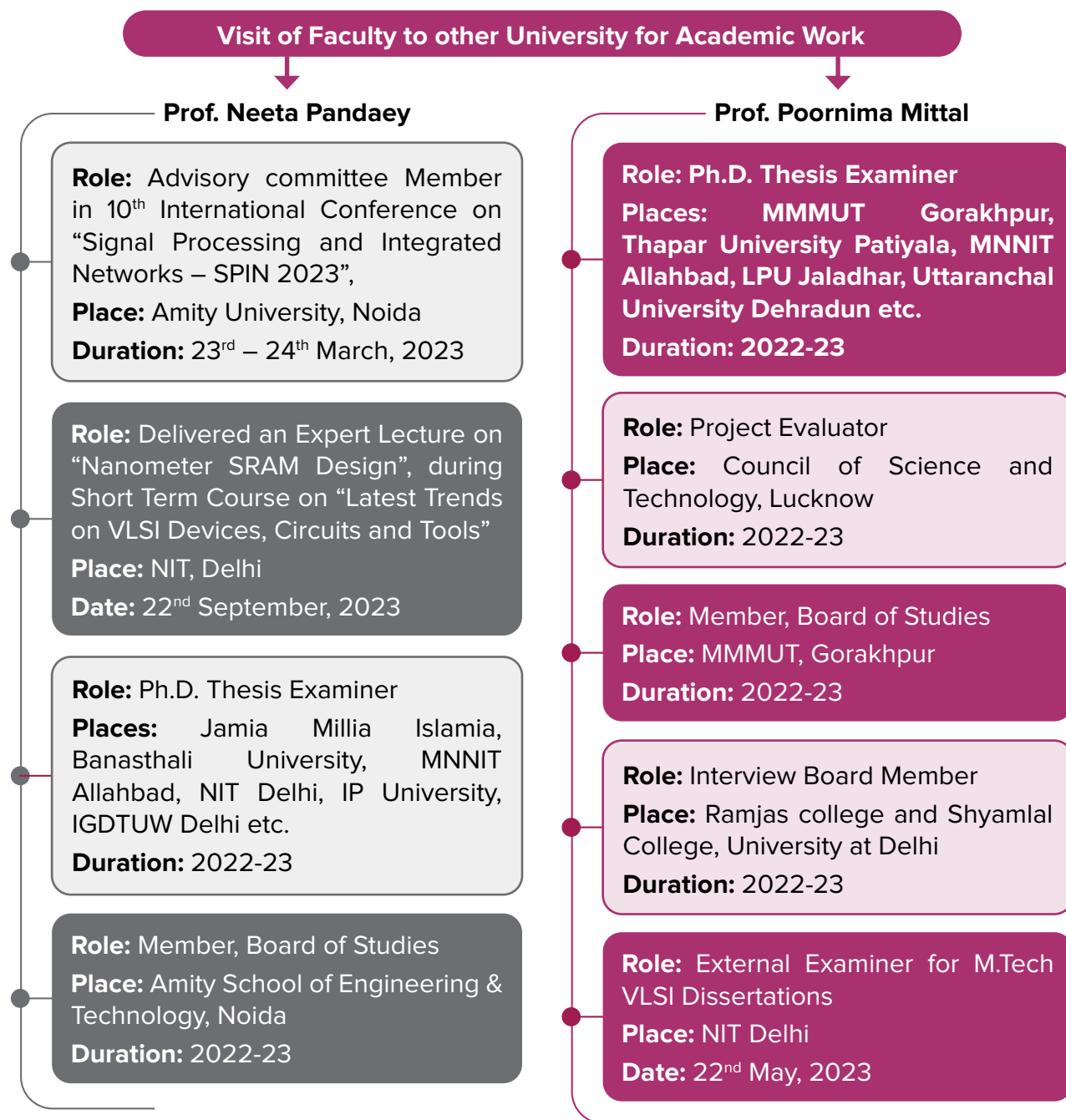
- Prof. Neeta pandey attended “ISO Auditor Training”, organized by IQAC, DTU, Delhi during 19<sup>th</sup> – 21<sup>th</sup> July, 2023.
- Dr. Avinash Ratre attended One Week One Week Online FDP on “IOT Induced Artificial Intelligence for Emerging Computing Paradigms”, organized by the Department of Information Technology, NIT, Jalandhar during 4<sup>th</sup> – 8<sup>th</sup> October 2023.
- Dr. Yashna Sharma attended One Week STTP/FDP on “Introduction to High Performance Computing (HPC) and its Application in AI”, organized by the CSE Department, DTU, Delhi during 7<sup>th</sup> – 11<sup>th</sup> Aug 2023.
- Mr. Lokesh Gautam attended One Week STTP/FDP on “Introduction to High Performance Computing (HPC) and its Application in AI”, organized by CSE Department, DTU, Delhi, and CDAC Pune during 7<sup>th</sup> – 11<sup>th</sup> July, 2023.
- Dr. Chhavi Dhiman attended One Week GIAN course on “Advanced Computer Vision: Application to Food Image Analysis”, organized by VNIT Nagpur, during 2<sup>nd</sup> – 6<sup>th</sup> Jan, 2023.
- Dr. Manjeet Kumar attended One Week FDP on “Cyber Security: Managing Risk in the Information Age”, organized by the Department of Computer Science & Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar during 12<sup>th</sup> - 16<sup>th</sup> October, 2023.
- Mr. Vinay Kumar attended One Week Short Term Course on “Nascent Technologies in Signal Processing, Communication and VLSI, organized by the ECE Department, NIT Delhi, during 24<sup>th</sup> – 29<sup>th</sup> April 2023.
- Mr. Vinay Kumar attended the One Day FDP on “Design and Fabrication Techniques of an Antenna: TV & Radio to Sensors” organized by School of Electronics and Communication Engineering at VIT-AP University, Amravati, on 8<sup>th</sup> April 2023.
- Following Faculty Members have attended the Two Weeks Industrial Training Program on “Cyber Security and Networking”, organized by BSNL, ALTTC, during 6<sup>th</sup> – 22<sup>nd</sup> July 2023.
  - Dr. Yashna Sharma
  - Mr. Piyush Tewari
  - Mr. Anurag Chauhan
- Following Faculty Members have attended the Online Faculty Development Programme on “Recent Tools and Techniques for Quality Research- RTTQR 2023”, organized by Department of Computer Science, Banasthali Vidyapeeth during 15<sup>th</sup> – 20<sup>th</sup> March, 2023.
  - Mr. Piyush Tewari
  - Mr. Anurag Chauhan
- Following Faculty Members have attended the Industrial Training on “IOT”, organized by the NSIC Technical Services Center, Okhla, New Delhi during 12<sup>th</sup> – 24<sup>th</sup> June, 2023.
  - Mr. Vinay Kumar
  - Mr. Sachin Dhariwal
  - Dr. Pankaj Dahiya
  - Mr. Rahul Thakur
  - Dr. Sumit Kale
  - Mr. Varun Sangwan
  - Ms. Lavi Tanwar
  - Dr. Sonam Rewari
  - Dr. Anukul Pandey

- Mr. Sumit Kumar Khandelwal
- Dr. Chhavi Dhiman
- Dr. Manjeet Kumar
- Following Faculty Members have attended the FDP on “Advanced Pedagogy”, organized by the Department of ECE, DTU, and NITTTR Kolkata during 10<sup>th</sup> – 21<sup>st</sup> July, 2023.
  - Dr. Pankaj Dahiya
  - Mr. Rahul Thakur
  - Mr. Sachin Dhariwal
  - Mr. Vinay Kumar
  - Dr. Sumit Kale
  - Ms. Lavi Tanwar
  - Dr. Sonam Rewari
  - Dr. Chhavi Dhiman
  - Dr. Anukul Pandey
  - Mr. Sumit Kumar Khandelwal
  - Dr. Manjeet Kumar

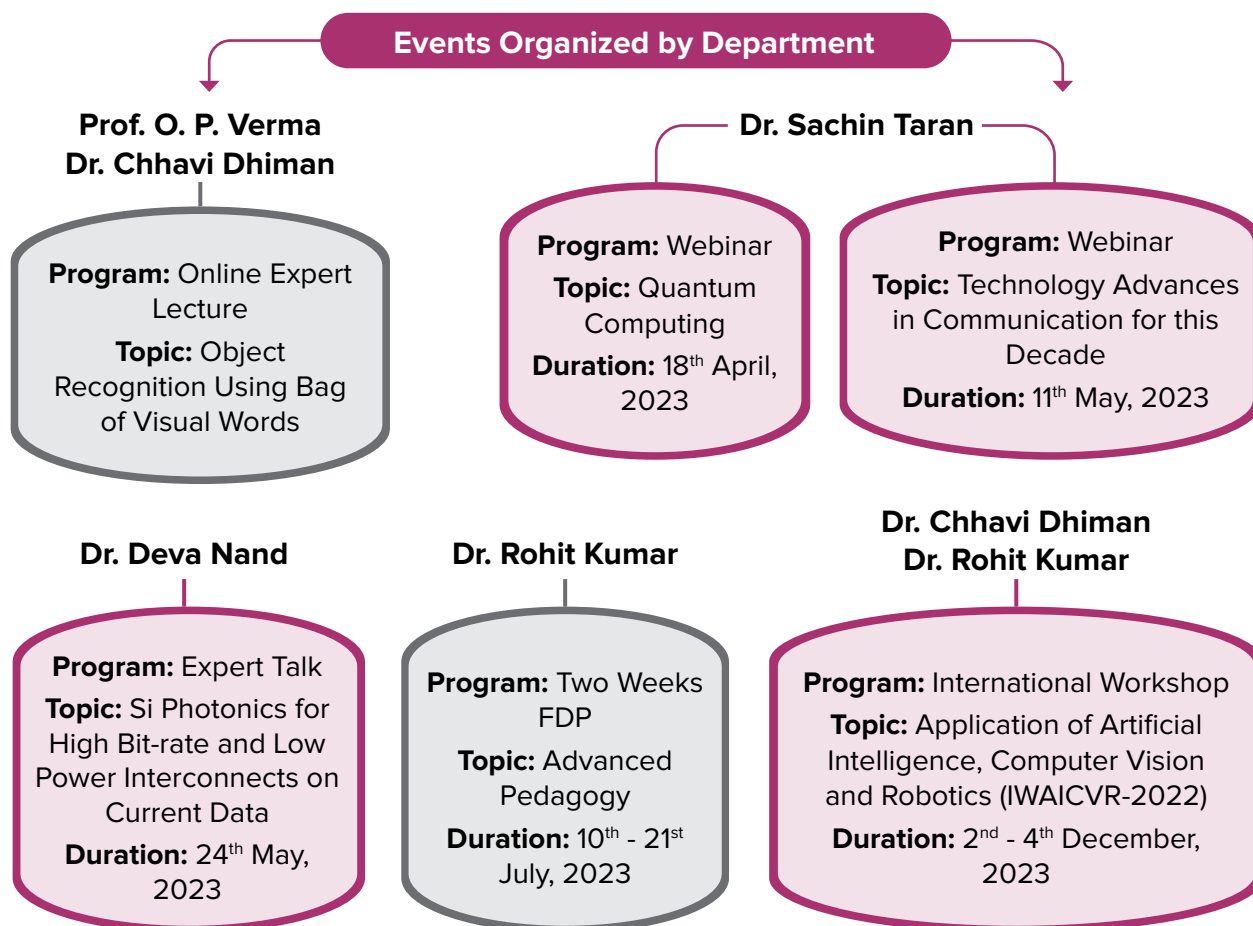
### Grants for Research Projects Sponsored by Funding Agencies:

S. No	PI/Co-PI	Title of Project	Agency	Amount (₹)	Sanctioned Date	Duration
1.	Prof. Rajiv Kapoor (PI) and Dr. Rajesh Birok (CO-PI)	Real Time Video Anomaly Detection for Tactical Surveillance Using Deep Learning	DRDO	29.772 Lacs	2022	Three Years
2.	Prof. S. Indu (PI) and Dr. N. Jayanthi (Co-PI)	Development of Framework for Imaging, Restoring and Archiving Inscription and Manuscript	DST	26 Lacs	2019	Three Years
3.	Dr. Rohit Kumar (PI)	Performance Optimization of Reconfigurable Intelligent Surfaces (RIS) Assisted Communication Networks Using Reinforcement Learning Algorithms for Smart Villages	SERB	31.4 Lacs	2022	Two Years
4.	Dr. Sumit Kale (PI)	Design and Development of Reconfigurable Silicon Nanowire Schottky Barrier Transistors for Biosensor Applications	SERB	29.65 Lacs	2022	Three Years
5.	Prof. Rajiv Kapoor (PI)	Fine and Intelligent, Automatic Tuning of High Power Microwave Filter	Ericcson Estonia	10 Lacs	2019	Five Years
6.	Prof. Rajiv Kapoor (PI)	Design of Dynamic EV Charger	M&M Logicsoft	35 Lacs	2021	Three Years

## Faculty Visit to other Institutions for Expert Lectures/Academic Works:



## Events organized by the Department:



## Functional MoUs with Universities/Institutions/Industries of National/ International Importance:

Adani Defence Systems & Technologies Limited and Flaire Unmanned Systems Private Limited have signed an MoU with the Department of ECE, DTU in 2019 for Five years.

## Extension & Outreach Activities:

Following faculty members have worked as Faculty Coordinator of different students' group for the Community Engagement Course (MS-199) through the "Desh Ke Mentor Program" from February – April, 2023, at DTU, Delhi

Mr. Piyush Tewari  
Dr. Chhavi Dhiman  
Dr. Sachin Taran  
Dr. Manjeet Kumar  
Dr. Rohit Kumar

### Faculty Awarded international Fellowship for Advanced Studies/Research:

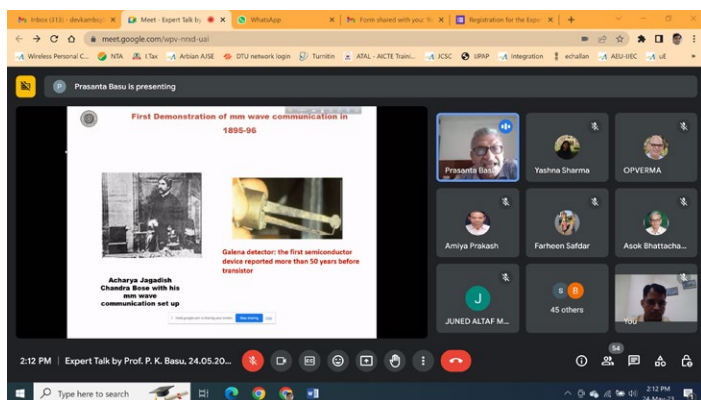
Dr. Harikesh is awarded the “SERB International Research Experience” fellowship for the year 2023-2024 (Six Months), by the Government Organization SERB, with Dr. Djuradj Budimir, Wireless Communications Research Group at UoW, University of Westminster, London, UK.

### Students' Achievements:

**Rithwick Sethi, B. Tech ECE, DTU, Delhi has received the following achievements:**

- Team Leader of Global Hawks-DTU, and won the Smart India Hackathon (Software Edition) 2022 with 1 Lakh rupees prize money, held at Maharashtra Institute of Technology, Aurangabad, Maharashtra from 25<sup>th</sup> – 26<sup>th</sup> August, 2023.
- Member of Handball Team, won 3<sup>rd</sup> prize in the Spardha-22 at IIT, BHU, held from 18<sup>th</sup> – 21<sup>st</sup> October, 2023.
- Selected as an Indian Delegate in the Harvard Project for “Aisan and International Relations (HPAIR-2023)”, in December, 2022.
- Selected for MITACS Research Internship in Canada for the project “Artificial Intelligence-Based Coordinated Target Detection and Tracking with A Swarm of Autonomous UAVs”, in December, 2022.
- Won a Silver Medal in Shotput, a Silver Medal in Basketball and a Bronze Medal in Lawn Tennis in the Intra-DTU sports event ARENA 2022-23, in January, 2023.
- Won First Prize and Cash ₹. 19,000 in the IDEAZ contest held at IIT Roorkee Technical Fest “Cognizance-23”, in March, 2023.
- Won Third Prize and Cash ₹. 1 Lakh in Cloud Coverage Determination (CCD) contest at IIT Roorkee Technical Fest Cognizance-23, in March, 2023.
- Won First Prize and Cash ₹. 12,500 in the Prodigy contest at IIT Roorkee Technical Fest

Love Jain, B.Tech ECE, was the Winner of the “Code for Good” Hackathon 2022, organized by J. P. Morgan Chase & Co.



## 4.10 DEPARTMENT OF ELECTRICAL ENGINEERING



**Prof. Rachana Garg**  
HoD  
(19<sup>th</sup> June, 2023 to till date )



**Prof. Pragati Kumar**  
HoD  
(25<sup>th</sup> October, 2022 to 19<sup>th</sup> June, 2023)



**Prof. Uma Nagia**  
HoD  
(4<sup>th</sup> - 24<sup>th</sup> October, 2022)

### ACADEMIC PROGRAMMES

#### B. Tech. (Electrical Engg.)

Intake: 301  
Admitted: 301

#### B. Tech. (EE- Cont. Edu.)

Intake: 60  
Admitted: 58

#### M. Tech. (C & I)

Intake: 25  
Admitted: 09

#### M. Tech. (PES)

Intake: 30  
Admitted: 15

**Ph.D. : 13**



**Prof. Narendra Kumar-II**  
HoD  
(1<sup>st</sup> September - 3<sup>rd</sup> October, 2022)

### SALIENT FEATURES

The Department of Electrical Engineering of Delhi Technological University is one among the first major departments to be established in 1941. The overall goal of the department is to provide quality education at undergraduate and postgraduate levels and undertake cutting edge research in several new areas of Electrical Engineering.

Faculty members of the department have been regularly contributing towards International and National Journals of repute like IEEE Transactions, IET, Elsevier, etc. along with Proceedings of National and International Conferences. Department had organized IEEE peer reviewed conferences like IICPE, ICPIECES etc. Department has time to time organized FDP's and expert lectures for faculty members and students.

The department has the distinction of organizing eight MHRD sponsored GIAN courses with international faculty

### RESEARCH PUBLICATIONS

#### JOURNALS

**119**

#### CONFERENCES

**181**

#### BOOK CHAPTERS

**24**

#### BOOKS

**02**

### SALIENT FEATURES Cont.

and experts from Virginia Tech, USA; University of Victoria, Canada; Texas A&M University, Texas, USA; Technical University of Crete, Greece; BC Hydro Canada; College of Engineering, Michigan State University, USA. The students are motivated for technical and creative activities besides classroom teaching and laboratory exercise through technical fests like TROIKA; RENAISSANCE organized under the IEEE student chapter and IET student chapter.

### LABORATORIES

The department currently has 17 laboratories and 13 dedicated research areas equipped with state-of-the-art facilities with the latest versions of software. The department has well-equipped laboratories which include; Basic Electrical Engineering, Electrical Workshop, Junior Machines, Senior Machines, Instrumentation and Measure, Linear Integrated Circuits, Electrical Energy Utilization, Power Electronics, Drives, Control System, Microprocessor & Microcontroller, Process Control, Power System, Switchgear & Protection, PS Simulation, High Voltage and Simulation Lab. The laboratories are equipped with sophisticated equipment's, test setups, FPGA based data acquisition systems, embedded controllers, Digital Signal Processors, Medium power Inverter-converters, various Electric Drives, PLCs, Power analysers, spectrum analysers, OPAL- RT, Phasor Measurement Units (PMUs), 300kV Impulse generator, 100 kV transformer etc.



## ACADEMIC STAFF

### FACULTIES

#### Professors: 24

- Prof. Rachna Garg (HoD)
- Prof. Narendra Kumar (I)
- Prof. Madhusudan Singh
- Prof. Uma Nangia
- Prof. Narendra Kumar (II)
- Prof. Pragati Kumar
- Prof. Vishal Verma
- Prof. Suman Bhowmick
- Prof. Bharat Bhushan
- Prof. S. T. Nagarajan
- Prof. Alka Singh
- Prof. Mukhtiar Singh
- Prof. Dheeraj Joshi
- Prof. M. M. Tripathi
- Prof. J. N. Rai
- Prof. Priya Mahajan
- Prof. Sudarshan K. Valluru
- Prof. Mini Sreejeth
- Prof. Ram Bhagat
- Prof. M. Rizwan
- Prof. Vinod Kumar Yadav
- Prof. R. S. Saha
- Prof. N. K. Jain (Adjunct)
- Prof. D. R. Bhaskar (Adjunct)

#### Associate Professors: 03

- Mr. Neeraj Kumar Bhagat
- Dr. D. C. Meena
- Mr. Ram Jee Lal Meena

#### Assistant Professors: 22

- Mr. A. B. Bhattacharya
- Dr. Prem Prakash
- Dr. Bhavnesh Jaint
- Mr. A. R. Kulkarni
- Dr. Garima
- Mr. Kuldeep Singh
- Dr. Ankita Arora
- Mr. Saurabh Mishra
- Mr. Sikandar Ali Khan
- Mr. Himanshu Singh
- Dr. Anup Kumar Mandpura
- Dr. Mayank Kumar
- Dr. Prakash Chittora
- Dr. Shatakshi
- Mr. Rohan Pillai
- Mr. Gaurav Kaushik
- Mr. Shreyansh Upadhyaya
- Dr. Vanjari Venkata Ramana
- Mr. Abhishek Chaudhary
- Dr. Chaudhry Indra Kumar
- Ms. Anupama
- Mr. Krishna Dutt

### AREAS OF INTEREST

Power System Operation and Control, Renewable Energy Systems, Artificial Intelligent Techniques, Smart Grid, Instrumentation, Railway Electric Traction System, Electrical Machines, Power Electronics, Electric Drives, Renewable Energy Systems, VSC-HVDC, Restructuring Power Systems, Artificial Intelligence (AI) Application to Load & Price Forecasting, Cyber Security of Smart Grid, Embedded Systems, Bio-Inspired Algorithms, Control of Dynamical Systems, Bifurcation Analysis, Analog Signal Processing, Power Quality, Bipolar and MOS Analog Integrated Circuits, Wireless Sensor Network, VLSI, Cooperative Communication Systems, PWM of Power Converters, Modelling and Control of Power Electronics Converters, Solar Power Conversion, Radiation Hardened IC Design, Energy Efficient Circuit Design, Advance Power Electronics, Control of Power Electronics Converters, Custom Power Devices, Facts, Machine, Microelectronics, Soft Computing, Robotics.

### Achievements of the Department:

- Highly placed alumni in various reputed organizations and institutions across the world.
- Mr. Vinod Dham “Father of Pentium Chip” is an distinguish alumni of Department.
- The Department is accredited by National Board of Accreditation (NBA).
- The Department is identified as a Quality Improvement Program Research Centre.
- The department is involved in carrying out several sponsored R & D projects funded by national agencies like AICTE, DST, SERB, NPIU and MeitY. Currently, sponsored projects from the DST and the AICTE amounting to more than 14.65 crores are underway in the department. The department is also engaged in consultancies in various fields of Electrical Engineering.

### Events organized by the Department:

One-day Workshop on "Application of Renewable Energy Systems in EV Charging Infrastructure", organized by COE for Electric Vehicles and Related Technologies, Department of Electrical Engineering, DTU, Delhi on 22<sup>nd</sup> February, 2023.

AICTE Training and Learning (ATAL) Academy Blended/Hybrid FDP on "Electric Vehicle Technology Challenges & Infrastructure", organised by Department of Electrical Engineering, DTU, Delhi from 12<sup>th</sup> to 23<sup>rd</sup> December, 2022.

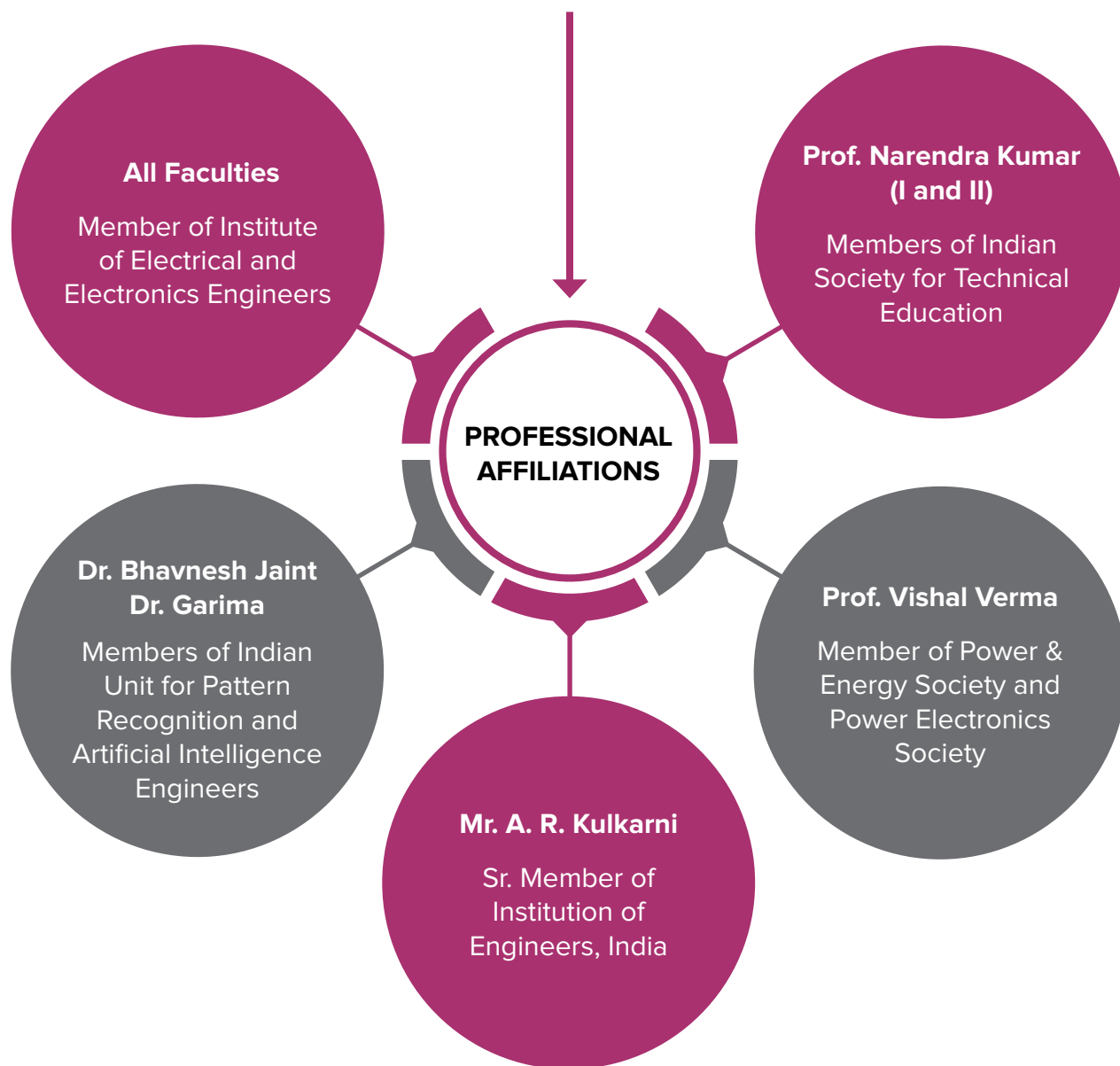
### Participation in Professional Development Programmes by Faculties:

- Following Faculty Member have attended Two-Weeks FDP on "Advanced Pedagogy", conducted by ECE Deptt DTU in collaboration with NITTTR Kolkata, during 10<sup>th</sup> - 21<sup>st</sup> July, 2023.
  - Dr. Bhavnesht Jaint
  - Dr. Garima
  - Dr Anup Kumar Mandpura
  - Dr. Ankita Arora
  - Dr. Shatakshi
  - Dr. Chaudhary Indra Kumar
  - Mr. Rohan Pillai
  - Mr. Abhishek Chaudhary
  - Mr. Gaurav Kaushik
- Following Faculty Member have attended Two Weeks Industrial Training at NSIC Okhla during 12<sup>th</sup> - 26<sup>th</sup> June, 2023.
  - Dr. Bhavnesht Jaint
  - Dr. Ankita Arora
  - Dr. Shatakshi
  - Dr. Chaudhary Indra Kumar
  - Mr. Rohan Pillai
  - Mr. Abhishek Chaudhary
  - Mr. Gaurav Kaushik
- Mr. Saurabh Mishra participated in AICTE Training and Learning (ATAL) Academy Blended/Hybrid FDP on "Electric Vehicle Technology Challenges & Infrastructure", at DTU, Delhi, during 12<sup>th</sup> – 23<sup>rd</sup> Dec, 2022.
- Ms. Anupama attended Two-Weeks Industrial Training on “Cyber Security and Networking”, at ALTTC-BSNL, Ghaziabad during 6<sup>th</sup> – 22<sup>th</sup> July, 2023.

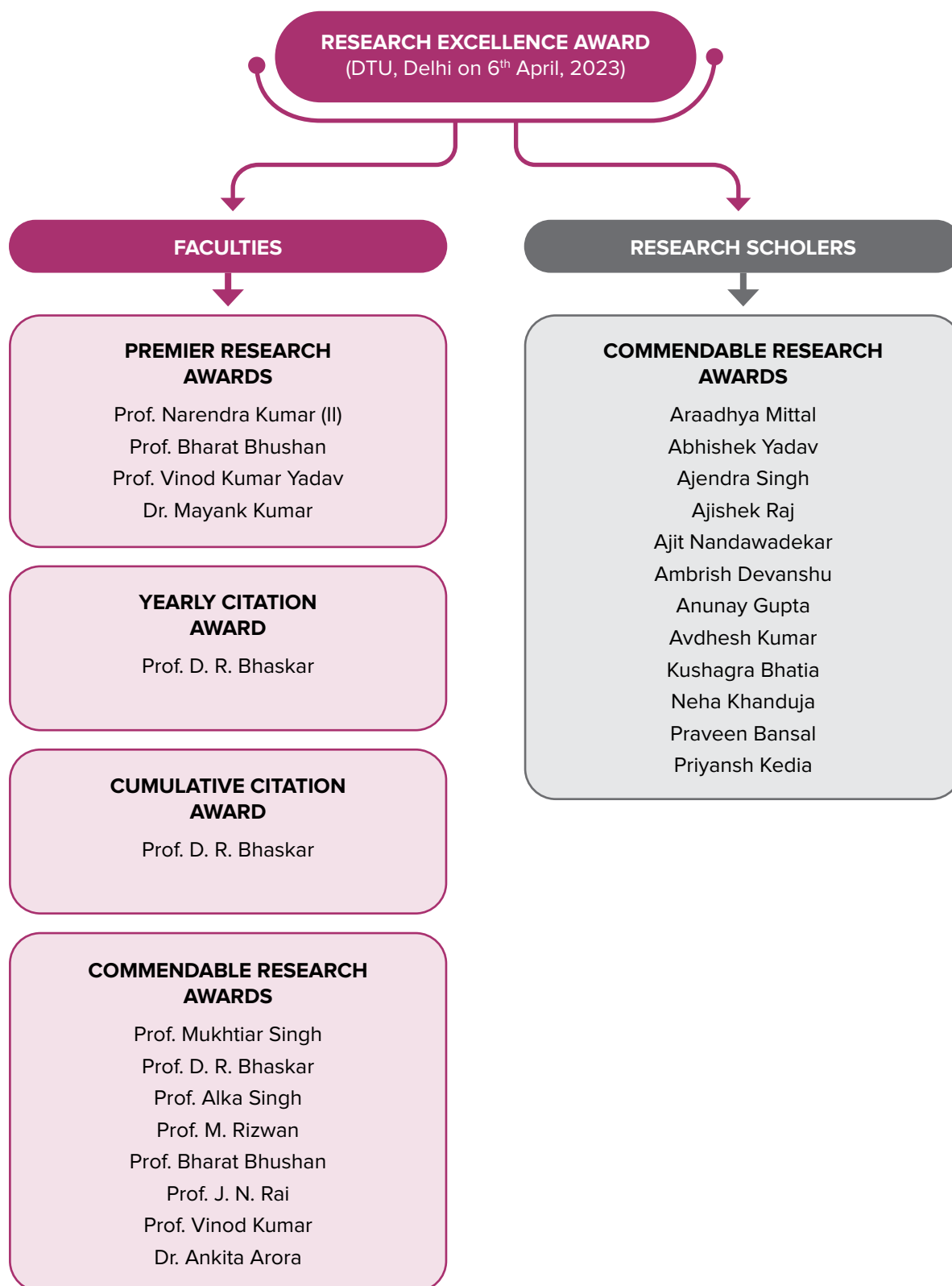
## Faculty Visit to other Institutions for Expert Lectures/Academic Works:

Prof. Mini Sreejeth delivered an Expert lecture in FDP on “Scope of Mechanical Engineering in Electric Vehicles”, at Netaji Subhas University of Technology, Delhi, during 12<sup>th</sup> - 16<sup>th</sup> June, 2023.

### Professional Affiliations:



## Awards and Recognition at State, National, International level from Recognised bodies:



### Grants for Research Projects Sponsored by Funding Agencies:

PI/Co-PI	Title of Project	Agency	Amount (₹)	Sanctioned Date/Duration
Dr. Hitesh Dutt Mathur (PI) Co PI- Dr. Dheeraj Joshi (Co-PI)	IOT Based Energy Management System of Microgrid with Vehicle to Grid Feature	DST	16,83,100/-	26 <sup>th</sup> February, 2019
Prof. M. Rizwan	Smart Dynamic Energy Management for built Environment with Integrated Renewable Energy	SERB	31,06,455/-	27 <sup>th</sup> March, 2019 for Three Years
Prof. V. Verma	Demonstration of Grid Supportive EV Charger and charging Infrastructure at LT level (D-EVCI)	DST	22,53,600/-	12 <sup>th</sup> June, 2018 for Three Years
Prof. V. Verma	Design and Demonstration of off-grid self-healing and sustainable DC community energy solutions	DST	1,63,000/-	For Three Years
Prof. Mini Sreejeth	Development and Deployment of Motor controller for Low to Medium Power Electric Vehicles	MeitY	30,00,000/-	For Three Years

### Revenue Generated from Consultancy:

S. No.	Title	Funding Agency	Grant (₹)	Date of Start of Project	Name of Principal Investigator
1	CCTV throughout in School	PWD	15,40,000	2019-20	ABK Bhattacharya
2	Construction of additional classroom priority I & II (Electrical)	PWD	15,00,000 approx	2018-20	ABK Bhattacharya
3	TPQA for various AIIMS project from HSCC	AIIMS	10,79,000	2019-20	ABK Bhattacharya
4	BSES underground cable laying work in Delhi	BSES	10,00,000	2019-20	ABK Bhattacharya





## 4.11 DEPARTMENT OF ENVIRONMENTAL

**Prof. A. K. Haritash**  
HoD

### ACADEMIC PROGRAMMES



### RESEARCH PUBLICATIONS

JOURNALS

**38**

CONFERENCES

**49**

### SALIENT FEATURES

The Department of Environmental Engineering offers B.Tech, M.Tech. and Ph.D. programs in Environmental Engineering. A major in Environmental Engineering and three minors in Environmental Engineering, Sustainability, and Environmental Remediation are offered for the B.Tech program. The Department also provides an opportunity to working engineers for academic upgradation by offering part-time postgraduate courses. The department envisions to produce technologically relevant Environmental Engineering graduates, post-graduates, and researchers through innovative applications of engineering, science & technology with a globally acceptable curriculum and teaching-learning environment, and create leaders in engineering who can work in multi-disciplinary groups to anticipate and address evolving challenges sustainably for the betterment of human society. The department also hosts international students in various programmes admitted through DASA, ICCR, and exchange from Asian, African and European countries.

### LABORATORIES

Department has set up six well-equipped laboratories: Water Pollution, Air & Noise Pollution, Environmental Microbiology and Bioremediation, Solid Waste Management, GIS & Remote Sensing and System Simulation Lab. The Department of Environmental engineering focuses on the major environmental issues of our society. It covers subjects on Air, Noise, Water and Soil Quality Monitoring, Assessment and Management, Socio-Economic Aspects, Environmental Legislation, EIA, Audit, Environmental Chemistry, Environmental Ecology & Microbiology, Wastewater Engineering, Soil Mechanics, Fluid Mechanics & Hydraulics, Remote Sensing & GIS, etc.



## ACADEMIC STAFF

### FACULTIES

#### Professors: 02

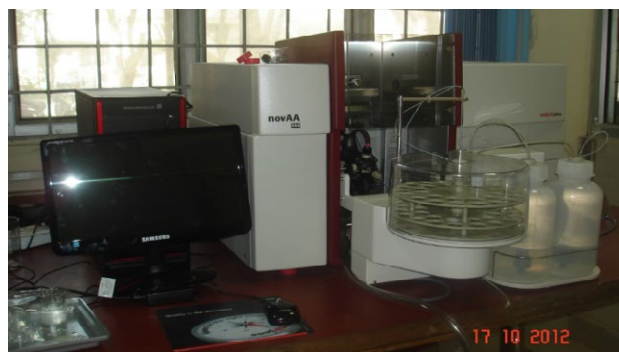
- Prof. Anil Kumar Haritash (HoD)
- Prof. S. K. Singh

#### Assistant Professors: 04

- Dr. Geeta Singh
- Dr. Lovleen Gupta
- Dr. Rajeev Kumar Mishra
- Mr. Gour Anunay Ashokkumar

### AREAS OF INTEREST

Solid Waste Processing, Wastewater Treatment Designs, EIA & Auditing, Environmental Microbiology, Bioremediation, Constructed Wetlands, AOPs, Environmental Impact Assessment, Climate Change, Transport Systems, Urban Air Pollution Analysis & Modelling, Acoustics & Barrier Design, Environmental Impact Assessment.



### Achievements of the Department:

- The department is actively engaged in providing technical support to the Central Pollution Control Board, Delhi for monitoring of industries, NMCG for evaluation of DPRs, CPWD, DJB, and many other institutions.
- The department has carried out consultancy projects for Delhi Jal Board, IFFCO, Uttar Pradesh Pollution Control Board, NMCG, and other private sector units as well.
- The department also provides technical support to various institutions, such as; The Institution of Engineers (India), the International Development Centre Foundation (IDC Foundation), and the Green Institute for Research and Development (GIRD).
- To sensitize students, staff and Faculty, the Equal Opportunity Cell (EOC) of DTU in association with the Department of Environmental Engineering, organized an awareness session on "Gender Sensitivity and POSH Act" on 31<sup>st</sup> January, 2023.

## Events organized by the Department:

An Awareness Program on “Women’s Health and Hygiene” on 10<sup>th</sup> November, 2022.

One day National Seminar on “National Pollution Control Day” on 2<sup>nd</sup> December, 2022.

Drawing competition event on “Innovative Ideas to Reduce Plastic Pollution” on World Environment Day on 5<sup>th</sup> June, 2023.

One-day Seminar on “Urban Emissions, Climate & Health Hazards (SUCH 2023)” on 21<sup>st</sup> February, 2023.

One-day National Seminar on “Clean Water and Sanitation” on World Water on 22<sup>nd</sup> March, 2023.

One day Seminar on “Innovation & Legislation of Environmental Noise Control and It’s Effect (SILENCE 2023)” on 26<sup>th</sup> April, 2023.

## Participation in Professional Development Programmes by Faculties:

Mr. Gour Anunay Ashokkumar attended FDPs on

- “Universal Human Values-I” during 26<sup>th</sup> – 30<sup>th</sup> September, 2022.
- “Universal Human Values-II” during 24<sup>th</sup> – 29<sup>th</sup> April, 2023.
- “Advanced Pedagogy”, organized by department of Environment Engg. during 10<sup>th</sup> – 21<sup>st</sup> July, 2023.

## Faculty Visit to other Institutions for Experts Lectures/Academic Works:

### EXPERTS LECTURES AND OTHER ACADEMIC WORKS

#### Dr. Anil Haritash

**Topic:** “Treatment of Textile industry Effluent by Advanced Oxidation Processes”

**Organizer:** Institute of Engineers, Delhi and DTU on 4<sup>th</sup> August, 2022

**Topic:** “Water Quality and Health” during CAORC FDP

**Organizer:** American Institute for Indian Studies at University of Chicago Centre, Delhi on 3<sup>rd</sup> January, 2023

#### Dr. Geeta Singh

**Topic:** National Meeting as subject Expert in Advisory Committee (EAC) on “Environmental Engineering Fundamental Glossary”

**Organizer:** Commission for Scientific and Technical Terminology, Ministry of Education, New Delhi, from 16<sup>th</sup> - 18<sup>th</sup> August, 2022

#### Mr. Anunay Gour

**Topic:** An expert lecture in Webinar on “Ozone Day 2022”

**Organizer:** Department of Environment, GNCTD on 16<sup>th</sup> September, 2022

## Functional MoUs with Universities/Institutions/Industries of National/International Importance:

- An International MoU with Environmental Defense Fund (EDF) New York, USA.
- An International MoU with Canakkale Onsekiz Mart University, Canakkale, Turkey.
- A National MoU with Central Pulp and Paper Research Institute, Saharanpur, Uttar Pradesh.

## Revenue Generated from Consultancy during the current year (INR in Lacs): 84.89 Lacs:

- Adequacy Report for IFFCO-Aonla and IFFCO-Phulpur Plant, Uttar Pradesh (2023) at a cost of ₹ 1.416 Lacs.
- Process vetting for upgradation of Delhi Jal Board Sewage Treatment Plants from ASP-based technology to IFAS-Technology at a cost of ₹ 8.496 Lacs.
- GPI Inspection 2022-23 by technical institutes in main stem states of river Ganga and Yamuna at a cost of ₹ 59.513 Lacs.
- Validation and approval of the technical scheme, hydraulic calculation, and hydraulic diagram (2022), M/s Suez Pvt. Ltd. Amount mobilized ₹ 3.54 Lacs.
- Validation and Approval of Structural Drawings for Disc Filter, UV Disinfection System, Odour Control System, Blower Shed (2023), M/s Suez Pvt. Ltd., Amount mobilized ₹ 11.925 Lacs.

## Awards and Recognition at State, National, International level from Recognised Bodies:



## Number of linkages with Institutions/ Industries for Internships, on-the-job Training, Project Work, Sharing of Research Facilities etc. during the current year:

- World Resources Institute (WRI), Washington, USA
- Environmental Defence Fund (EDF), New York, USA
- Linkage for Student Internship was established with Central Pollution Control Board (CPCB) from 2019 to date for B.Tech. and M.Tech. Students.
- Linkage for Student Internship was established with Delhi Pollution Control Committee (DPCC) in 2019 for B.Tech. and M.Tech. Students.
- Joint activities with the School of Planning and Architecture (SPA), New Delhi, for environmental awareness and training activities.
- Joint supervision of doctoral research on Electro-kinetic Remediation of Heavy Metal contaminated Soils with Canakkale Onsekiz Mart University, Canakkale, Turkey.



## 4.12 DEPARTMENT OF HUMANITIES

**Prof. Nand Kumar**  
HoD

### ACADEMIC PROGRAMMES

**Ph.D.**  
**(English and Economics):**  
**02**

### RESEARCH PUBLICATIONS

JOURNALS

**23**

CONFERENCES

**13**

BOOK CHAPTERS

**08**

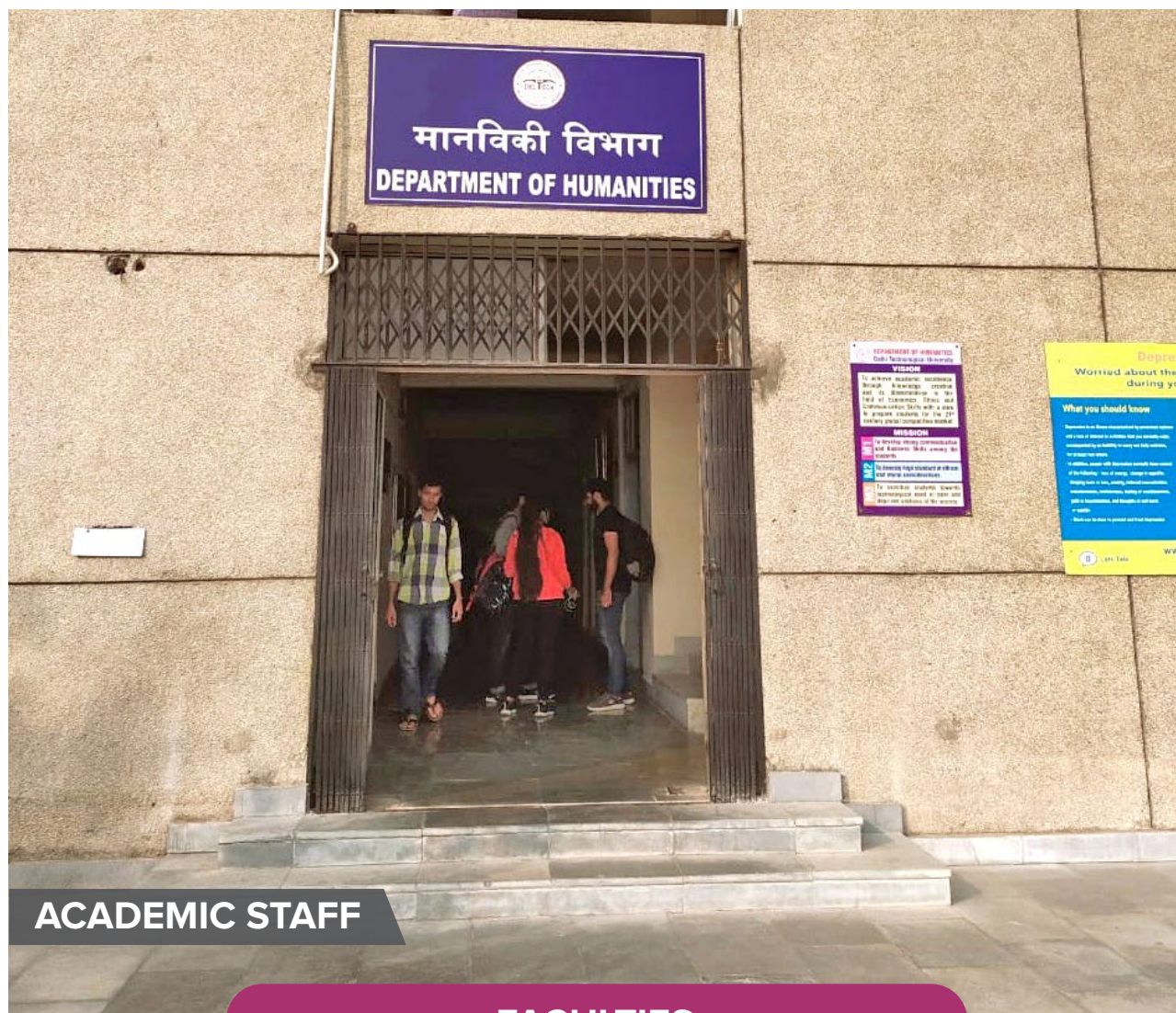
### SALIENT FEATURES

The Department of Humanities was established in the year 1941 with a view to impart necessary soft skills to the graduating engineering students. Initially courses in English, Economics and Accountancy were taught to the students. With the growing impetus on new courses like Econometrics, Gender and Technology and timely revision of syllabi of subjects like Engineering Economics and Communication Skills, a crossover between technical and non-technical aspects of learning is facilitated. The main objective is to give the students a comprehensive idea of the competition and the emerging work cultures to make them confident and market ready. The knowledge of different branches of engineering can be for the betterment of society and environment. In the current scenario we need engineers who can develop technologies that are sustainable, user friendly, effective and adaptable with respect to changing social and cultural environment.

The department offers PhD degree in English and Economics. In the last 5 years, the impetus on research has led to publication of high quality research papers in indexed databases of repute, such as Web of Sciences, Scopus and UGC Care Journals by both faculty and research scholars.

### LABORATORIES

Language Laboratory



## ACADEMIC STAFF

### FACULTIES

#### Professors: 02

- Prof. Nand Kumar (HoD)
- Prof. Seema Singh

#### Associate Professors: 02

- Dr. Rajiv Ranjan Dwivedi
- Ms. Saroj Bala

#### Assistant Professor: 01

- Ms. Parinita Sinha

### AREAS OF INTEREST

Women Education and Inclusive Growth, Banking and Finance, International Trade, Applied Econometrics, Efficiency Analysis, Diaspora Studies, Postmodern Fiction, South Asian Fiction, Cultural Studies, Translation Studies, Communication Skills, and Creative Writing, English Literature, Indian Literature

## Achievements of the Department:

### Ph.D. DEGREE AWARDED IN 2022-23:

Dr. Addissie Melak (Economics)  
Dr. Khyati Kathuria (Economics)

### RESEARCH EXCELLENCE AWARD:

Prof. Nand Kumar received Commendable Research Award on 6<sup>th</sup> April, 2023 at DTU, Delhi for the SCI International Journal research paper.

### BOOK PUBLICATION:

Prof. Seema Singh has authored and published a book on “Engineering Economics, Estimation and Costing”, IK International Pvt. Ltd. New Delhi, ISBN no. 978-93-90620-08-1.

## Faculties Provided with Financial Support to attend Conference/ Seminar/ Symposia/ Workshop/ STC/ FDP/ Training etc. during Current Year:

### Financial Support Provided for Membership of Professional Societies

Dr. Rajiv Ranjan Dwivedi

Ms. Saroj Bala

“Heritage Society”  
Based in Patna  
Bihar

## Visit of Faculty to other University/Institution for Expert Lectures/ Academic Work:

Name of Faculty	Visit to Institutions of Eminence
Prof. Nand Kumar	Rajasthan Technical University, Kota on 22 <sup>nd</sup> July, 2023 GBU, Greater Noida on 8 <sup>th</sup> July, 2023 BBAU, Lucknow on 18 <sup>th</sup> January, 2023
Prof. Seema Singh	Panel Member for “Ask anything you wanted to know about INWES, a women –in-STEM network” in a parallel event at NGO CSW 67, United Nations on 11 <sup>th</sup> March, 2023. Panelist for Webinar on “Gender Perspectives on Achieving SDG-5” organised by World Federation of Engineering organisations on 19 <sup>th</sup> November, 2022 ( <a href="https://www.youtube.com/watch?v=RFKBE8F948A">https://www.youtube.com/watch?v=RFKBE8F948A</a> ). Invited Speaker at “No COP OUT” organised by Pan India Campaign for Children Rights on 5 <sup>th</sup> November, 2022. Panel Member for discussion on “Gender, Sustainability and Research Capacity Building in the Global South” on 28 <sup>th</sup> October, 2022.
Dr. Rajiv Ranjan Dwivedi	BPIT, IP University, Delhi on 1 <sup>st</sup> February, 2023 Manav Rachna University, Faridabad on 24 <sup>th</sup> November, 2022 and 15 <sup>th</sup> March, 2023.
Ms. Saroj Bala	Member, Interview Board of Orissa School Education for selection of PGT, TGT English, during 1 <sup>st</sup> – 5 <sup>th</sup> August, 2023. Nominated for Research Committee of the Ambedkar Chair, Hari Singh Gaur University, Sagar, MP. MAIT, IP University, Delhi during 23 <sup>rd</sup> and 24 <sup>th</sup> January, 2023. BPIT, IP University, Delhi On 25 <sup>th</sup> January and 3 <sup>rd</sup> February, 2023.

## Participation in Faculty Development Programmes during Current Year:

### PARTICIPATION IN FDPs

**Dr. Rajiv Ranjan Dwivedi**

**Event:** Five days “Information Literacy Workshop” on E-Resources: A Gateway for Research

**Organizer:** DTU library from 5<sup>th</sup>-9<sup>th</sup> Sept, 2022

**Prof. Seema Singh**

**Event:** E Resources: A Gateway for Research from 5<sup>th</sup>-9<sup>th</sup> Sept, 2022

**Ms. Parinita Sinha**

**Event:** “Assessment -Diagnostic Test of Learning Disability (DTLD)”

**Organizer:** Vriksha Academy on 5<sup>th</sup> Sept, 2022

**Ms. Saroj Bala**

**Event:** One-month workshop cum certificate course on “Research Methodology, Academic Writing, and Publishing in English” RMWCC 2022

**Organizer:** AIFEST Instt. of Aeronautical Engineering, Hyderabad

**Event:** Six days Week online FDP on “Contemporary Trends in English Language and Literature”

**Organizer:** Sri Guru Teg Bahadur Khalsa College, Punjab from 10<sup>th</sup>-16<sup>th</sup> Jan, 2023

**Event:** Six days Week online FDP on “Emerging Trends & Challenges in Teaching Language and Literature”

**Organizer:** VET Institute of Arts and Science, Tamilnadu from 2<sup>nd</sup>-7<sup>th</sup> Jan, 2023

**Event:** Five days “Information Literacy Workshop” on E-Resources: A Gateway for Research

**Organizer:** DTU library from 5<sup>th</sup>-9<sup>th</sup> Sept, 2022

### PROJECTS:

Prof. Seema Singh participated as the Country Lead, India for the Project on “INWES-KWSE on Gender Perspective in Science and Engineering (GISE)”, Global Project on Women in STEM 2022, sponsored by National Research Foundation, South Korea and the Ministry of Science and ICT, South Korea during 1<sup>st</sup> April – 30<sup>th</sup> November, 2022)



### Capacity Enhancement and Development Schemes:

E-Training Programme of EBSCO India through, Central Library DTU for faculty members of Social Sciences on 24<sup>th</sup> Sept, 2022.



## 4.13 DEPARTMENT OF INFORMATION TECHNOLOGY

**Prof. Dinesh K. Vishwakarma**  
HoD

### ACADEMIC PROGRAMMES

#### B. Tech. (Information Technology)

Intake: 181  
Admitted: 181

#### M. Tech. (Information Systems)

Intake: 25  
Admitted: 23

Ph.D. : 11

### SALIENT FEATURES

The Department of Information Technology (IT) endeavors to provide the thrill of a corporate R & D environment with a planned focus on industrially relevant subjects, projects and technology incubation. The curriculum defined, emphasizes on design principles and development of system softwares for Operating Systems, Malware Analysis, Artificial Intelligence, Data Mining, Computer Vision and Networks. Department has developed various state-of-the-art laboratories; Computer Networks, Web Engineering, Programming, Information and Security, Malware Analysis and Biometric Research Lab in the various fields of Information Technology. Currently, the Department offers Doctorate in various emerging technologies, post- graduate in Information Systems & under- graduate in IT. The department also has an active student chapter of Computer Society of India (CSI) and contributes significantly in professional activities undertaken by IEEE and IET student chapters.

### RESEARCH PUBLICATIONS

JOURNALS

**49**

CONFERENCES

**72**

CITATION

**3239**





## ACADEMIC STAFF

## FACULTIES

### Professors: 03

- Prof. Dinesh K. Vishwakarma (HoD)
- Prof. Kapil Sharma
- Prof. Seba Susan

### Associate Professor: 01

- Dr. Virender Ranga

### Assistant Professors: 07

- Dr. Ritu Agarwal
- Ms. Anamika Chauhan
- Dr. Priyanka Meel
- Dr. Jasraj Meena
- Mr. Rahul Gupta
- Dr. Bindu Verma
- Dr. Varsha Sisaudia

## AREAS OF INTEREST

Artificial Intelligence, Evolutionary Computation, Software Engineering, Malware Analysis, Machine/Deep Learning, Computer Vision, Human Action and Activity Recognition, Sentiment Analysis, Rumour Detection, Statistical Data Analysis, Pattern Recognition, Natural Language Processing, Wireless Ad-Hoc & Sensor Network, Security Issues in Cloud Computing, Information Security, Digital Forensics, Data Structures, Analysis and Design of Algorithms, Cyber Security, Pattern Mining, Sensor Networks, Social Media Analysis, Parallel and Distributed Computing, Cloud Computing, Hand Gesture, Affective Computing, Emotion Recognition, Image Processing, Evolutionary Algorithms.

## Achievements of the Department:

An amalgam of Computers and Telecommunications, Information Technology has changed the lives of people locally as well as globally with the applications apparent in every walk of life. Popular areas that encompass the scope for IT and have grown in the recent years are medicine, E-Governance, entertainment and multimedia, scientific research, business intelligence solutions and knowledge discovery in databases. The Department of Information Technology offers an UG in Information Technology with an intake of 180 students every year. The course is designed in a such a way to provide the students with fundamental concepts and tools related to fields Also, the Department offers PG in Information Systems with an annual intake of 25 students. Specialized knowledge on Analysis and Design of Information System, Information Security, Mobile Communication, Soft Computing, Artificial Intelligence, Big Data, Cloud Computing, Deep Learning,

Computer Vision and Expert Systems, Web Engineering is also imparted, along with various electives related to upcoming I.T. fields. A large number of B.Tech (IT) students have obtained admissions in foreign and reputed national universities for M.S/M. Tech. and M.B.A programs. Further, many publications in international conferences/ Journals published by the undergraduate and post graduate students are the outcome of the research culture developed in the Department. The Department has a student society called the "Society for IT Engineers" (S.I.T.E.). Students regularly participate in national and international events like Hackathons and other technical and non-technical competitions. The department aims to encourage the students to be a part of active working teams in practical industrial projects and technical work, enabling them to expand intellectually so that they can make their contributions in the challenging IT industry.

## Events organized by the Department:

Organized a Short-Term Course on "Recent Trends in Machine Learning and Deep Learning for AI Applications", during 5<sup>th</sup> - 9<sup>th</sup> June, 2023 at IT, DTU, Delhi (Coordinator/Member: Dr. Varsha Sisaudia, Prof. Kapil Sharma, Dr. Virender Ranga, Dr. Bindu Verma, Ms. Anamika Chauhan)

One-Day Workshop on "Intellectual Property Rights and IP management for Startup", on 23<sup>rd</sup> May, 2023 at IT, DTU, Delhi (Coordinator: Dr. Bindu Verma)

Organized a Short-Term Course on "Recent Trends in Machine Learning and Deep Learning for AI Applications", during 5<sup>th</sup> - 9<sup>th</sup> June, 2023 at IT, DTU, Delhi (Coordinator/Member: Dr. Ritu Agarwal, Dr. Varsha Sisaudia, Prof. Kapil Sharma, Dr. Virender Ranga, Dr. Bindu Verma, Ms. Anamika Chauhan)

## Faculties Provided with Financial Support to attend Conference/ Seminar/ Symposia/ Workshop/ Short Term Course/ FDP/ Training etc. during Current Year:

### FINANCIAL SUPPORT TO ATTEND ACADEMIC EVENTS

<b>Prof. Dinesh K. Vishwakarma</b>	Financial support of ₹ 8,228/- for the IEEE professional membership.
<b>Prof. Seba Susan</b>	Financial support of ₹ 11,985/- for the IEEE professional membership.
<b>Dr. Bindu Verma</b>	Financial support of ₹ 6,852/- for the IEEE young professional membership.
<b>Dr. Varsha Sisaudia</b>	Financial support of ₹ 7,273.85/- for IEEE membership 2023. Financial support of ₹ 11,800/- to attend industrial training on “Cyber Security and Networking” during 6 <sup>th</sup> - 22 <sup>nd</sup> July, 2023.

## Faculty Visit to other Institutions for Expert Lecture/Academic Work:

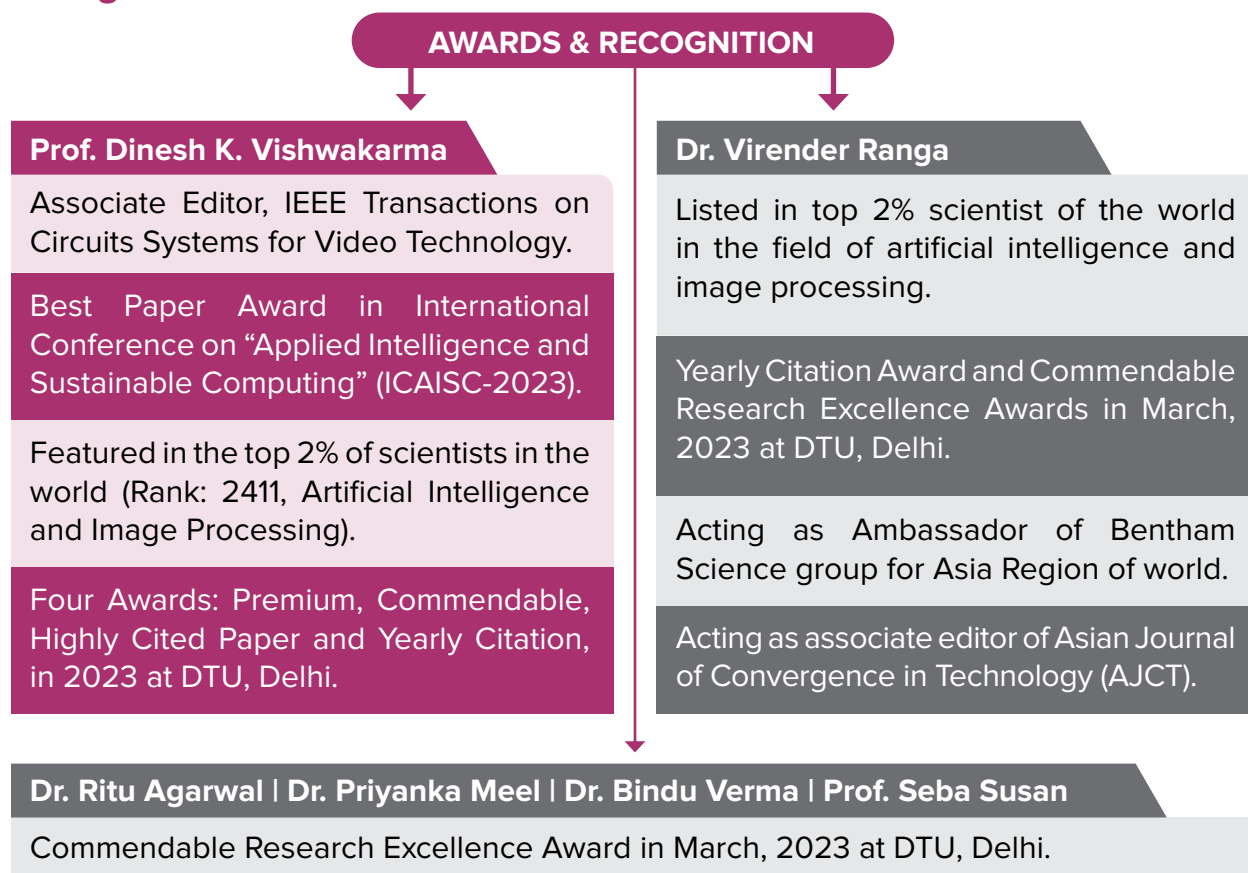
Name of Faculty	Expert Lectures Delivered / Academic Works
Prof. Dinesh K. Vishwakarma	<p>Session Chair in an International Conference on “Recent Advances in Electrical, Electronics &amp; Digital Healthcare Technologies, REEDCON 2023” held at JMI, Delhi from 1<sup>st</sup> to 3<sup>rd</sup>, March, 2023.</p> <p>Expert Talk on “Pytorch and Open CV” in a One week FDP on “Artificial Intelligence Tools” at Jaypee Institute of Information Technology, Noida from 28<sup>th</sup> June to 3<sup>rd</sup> July, 2023.</p> <p>Expert Talk on “ActionSense: Harnessing Machine Learning for Human Activity Recognition” in a Karyashala; a High-end Workshop on “Internet-of-thing, Artificial Intelligence and its Industrial Applications” at CSIR CEMRI, Durgapur, from 26<sup>th</sup> June to 2<sup>nd</sup> July, 2023.</p> <p>Expert Talk on “Smart Farming using Computer Vision Enabled IOT” in a Two-days workshop on “Applications of IoT Technology in Agriculture” from 26<sup>th</sup> to 27<sup>th</sup> May, 2023 at ABV-IIITM Gwalior.</p> <p>Expert Talk on “Role of IOT in Computer Vision” in a FDP on “Machine Learning for IOT” held during 15<sup>th</sup> – 20<sup>th</sup>, 2023 at Guru Jambheshwar University of Science &amp; Technology, Hisar-Haryana.</p> <p>Invited Talk in an International Conference on “Applied Data Science and Smart Systems”, at Chitkara University, Punjab, during 4<sup>th</sup> – 5<sup>th</sup> November, 2022.</p> <p>Invited Talk on “Fake News Analysis using LSTM” in Three-days National Virtual Workshop on “Advances in Artificial Intelligence and Cyber Security”, organized by Central University of Haryana, Central library &amp; CSE, DTU, Delhi during 30<sup>th</sup> November – 2<sup>nd</sup> December, 2022.</p>

Prof. Kapil Sharma	Reviewers of many reputed journals of IEEE, Springer, Elsevier, Wiley and T & F. TPC Member in various conferences held in India as well as abroad. External Examiner of Ph.D. Thesis at University of Delhi and GGSIPU, Delhi.
Prof. Seba Susan	External Expert for setting up question paper in Kerala state PSC for post in university. External Expert for formation of MBA (data science) course and syllabus in DSM, DTU, East campus. External Expert for conduction of interviews for admission to MBA (data science) course in DSM, DTU, East campus.
Dr. Virender Ranga	External Examiner for Ph.D. Thesis at Lingaya's Vidyapeeth University, Faridabad on 6 <sup>th</sup> April, 2023. External Practical Examiner at HMRITM College, Alipur, Delhi on 27 <sup>th</sup> and 28 <sup>th</sup> January, 2023. Reviewers of many reputed journals of IEEE, Springer, Elsevier, Wiley and T & F. Member of BoS of Computer Science & Engineering Department at RTU, Rajasthan. TPC Member in various conferences held in India as well as abroad.
Mr. Rahul Gupta	M.Tech Thesis Examiner at Punjab Engineering University in 2023.
Dr. Bindu Verma	Item Writer, Expert and Proof Reader for Computer Science/Informatics Practices in the year 2023 at National Testing Agency. External Practical Examiner (B.Tech) at IP University, Delhi on 13 <sup>th</sup> February, 2023. Reviewer of many papers for IEEE Transactions and International Journals during 2022-23.
Dr. Varsha Sisaudia	<ul style="list-style-type: none"> <li>External Practical Examiner (B.Tech) at IP University, Delhi, in 2023.</li> <li>Reviewer in IEEE International Conference on "Computing, Communication, and Intelligent Systems" during 4<sup>th</sup> – 5<sup>th</sup> November, 2022.</li> </ul> TPC Member in International Conference on "Advancement of Intelligent Computational Methods and Technologies", held on 27 <sup>th</sup> June, 2023.

### Participation in Professional Development Programmes by Faculties during Current Year:

Name of Faculty	Participation in Professional Development Programme
Dr. Ritu Agarwal	One week FDP on "IOT Induced Artificial Intelligence for Emerging Computing Paradigms from 4 <sup>th</sup> to 10 <sup>th</sup> October, 2022, organized by NIT, Jalandhar.
Ms. Anamika Chauhan	Two-weeks Short-Term Course on "Integration of WSN & IOT for Agrilculture", organized by the ATAL academy, DTU, Delhi from 2 <sup>nd</sup> to 13 <sup>th</sup> January, 2023. Two-weeks Industrial Training on "Network and Cyber Security", conducted by BSNL, Ghaziabad from 6 <sup>th</sup> to 22 <sup>nd</sup> July, 2023.
Mr. Rahul Gupta	Two weeks Industrial Training on "Cyber Security and Networks", conducted by ALTTC, Ghaziabad from 6 <sup>th</sup> to 22 <sup>nd</sup> July, 2023.
Dr. Bindu Verma	One-week Short-Term Course on "Demystifying Intellectual Property for Research Integrity and Economic Development", organized by Department of CSE, DTU, Delhi from 13 <sup>th</sup> to 17 <sup>th</sup> March, 2023. Two-weeks Industrial Training on "Network and Cyber Security", conducted by BSNL, Ghaziabad from 6 <sup>th</sup> to 22 <sup>nd</sup> July, 2023.

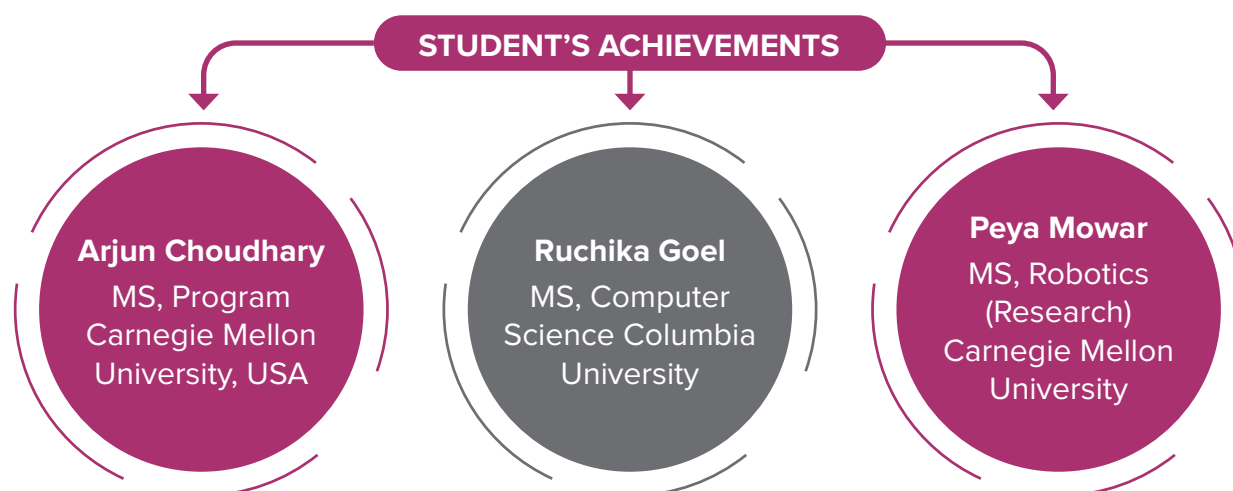
## Awards and Recognition at State, National, International level from Recognised Bodies:



## Collaborative Activities for Research, Faculty Exchange, and Student Exchange:

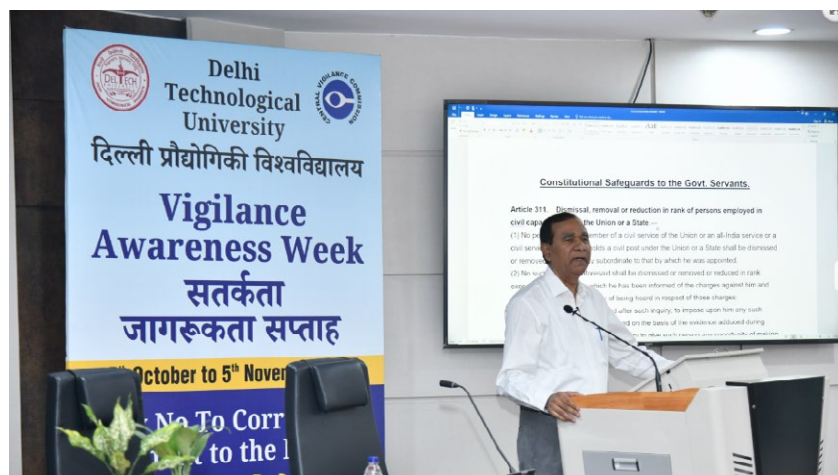
Name of Faculty	Collaborative Activities
Dr. Virender Ranga	<ul style="list-style-type: none"> <li>Collaborative research work with NIT Kurukshetra, Haryana with jointly supervised 02 Ph.D. scholars (degree awarded) in the area of “SDN Security and Integration of UAVs network with sensor network for solving partition problem”.</li> <li>Collaborative research work with NIT Kurukshetra, Haryana with jointly supervising 03 Ph.D. scholars in the areas of “Key Management in IoT with integration of Blockchain, Internet of Robotics Things and Medical Image Processing”.</li> <li>Collaborative research with Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Haryana, with jointly supervising 01 Ph.D. candidate in the area of “Internet of Things Security”.</li> <li>Collaborative research with Kurukshetra University, Haryana with jointly supervising 01 Ph.D. candidate in the area of “Security Issues in FoG Computing”.</li> </ul>

## Students' Progression to Higher Education:



## Students Provided with Financial Support to attend Conferences, Seminars, etc.:

Name of Student	Title of Event attended with financial support provided by DTU	Topic Name	Amount of support (₹)
Mr. Kunal Chauhan	IEEE 2023 3 <sup>rd</sup> International Conference	Intelligent Technologies (CONIT)	8,800/-
Mr. Naveen Kumar Shah	International Conference	Intelligent and smart computation (ICIAS 2023)	8,000/-
Mr. Shivam Kumar	International Conference	Engineering and Technology (PiCET2023)	6,000/-
Ms. Apoorva Aggarwal	IEEE 2023 2 <sup>nd</sup> International Conference	Vision towards Emerging Trends in Communication & Networking Technologies (ViTECoN 2023)	8,750/-
Mr. Naman Jain	International Conference	Emerging Technologies (GlobConET 2023)	16,436/-





## 4.14 DEPARTMENT OF MECHANICAL ENGINEERING

**Dr. S. K. Garg**  
HoD

### ACADEMIC PROGRAMMES

#### **B. Tech. (ME.)**

Intake : 301  
Admitted : 301

#### **B. Tech. (Production & Industrial Engg.)**

Intake : 76  
Admitted : 76

#### **B. Tech. (Automotive Engg.)**

Intake : 76  
Admitted : 76

#### **M. Tech. (IEM)**

Intake : 30  
Admitted : 13

**Ph.D. : 18**

### RESEARCH PUBLICATIONS

**JOURNAL &  
CONFERENCES**

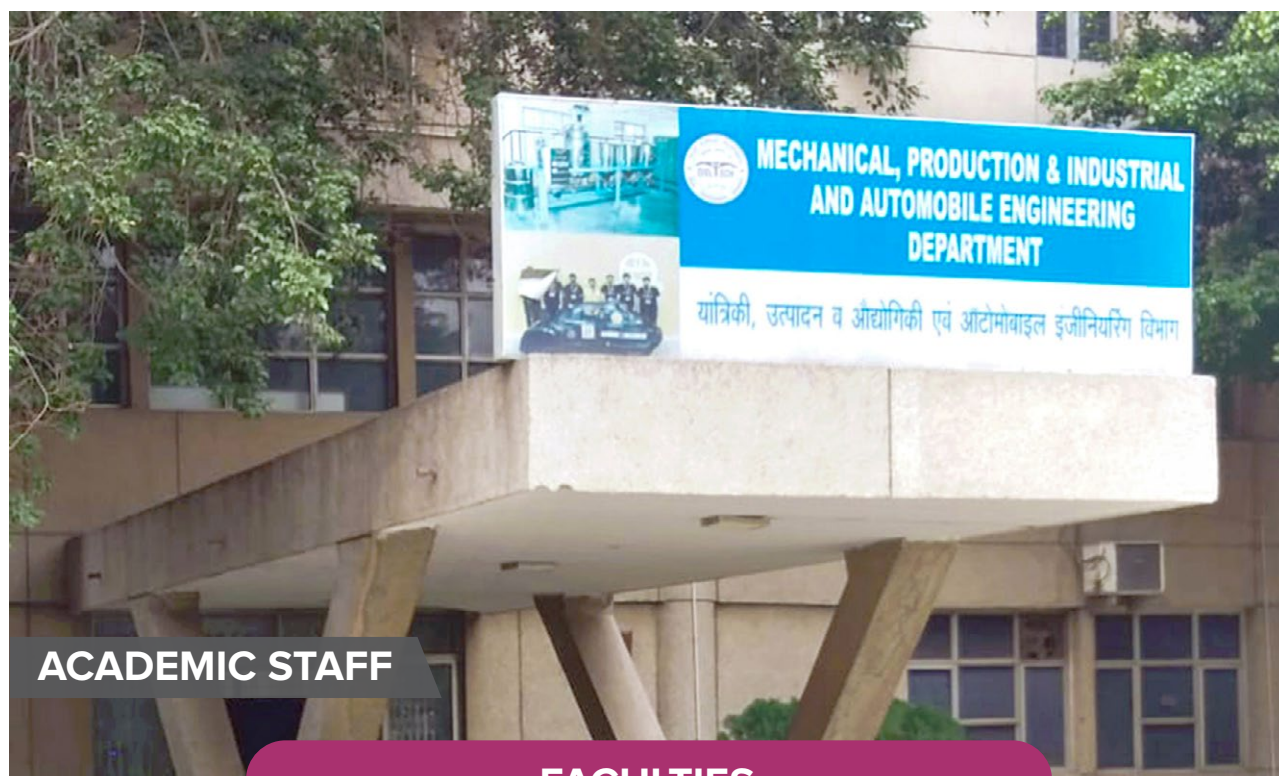
**49**

### SALIENT FEATURES

The department of Mechanical Engineering has seen considerable growth since its inception in 1941. The department of Mechanical Engineering also offers Post Graduate courses with specialization in Thermal Engineering, Production Engineering, Computational Design and Renewable Energy Technology. Ph.D. Program in all fields of Mechanical Engineering is also offered. In addition, the department also offers four years B.Tech. Programme for working Diploma Engineers. The department has developed eco-friendly technology using alternate refrigerants in the RAC lab for re-directing global warming and Ozone depletion.

### LABORATORIES

The department possesses modern laboratories equipped with latest experimental set-ups and research facilities for Instrumentation, Experimental Stress Analysis, Strength of Materials, Fluid Mechanics, Micro and Nano Scale Thermo-Fluidics, I.C. Engines, Automotive Engineering, Robotics, Heat Transfer, Solar Energy, Flexible Manufacturing System, Computational Fluid Dynamics supported by Softwares; View-Flex, CAD-CAM and Engine Design. CAD Lab has software like NX-LAD, NXCAM, AUTOCAD Inventor, Catia, Techomatix, Abacus, Iadino, NX- Nastran, Hyper mesh, hyper works, MDADAMS, Dynaform etc. In addition, Microprocessors, Micro Controllers, PLC, Spectrum Analyser and Logic Analyser are available for project work.



## ACADEMIC STAFF

### FACULTIES

#### Professors: 20

- Prof. S. K. Garg (HoD)
- Prof. Sagar Maji
- Prof. Samsher
- Prof. R. S. Mishra
- Prof. Naveen Kumar
- Prof. D. S. Nagesh
- Prof. Vipin
- Prof. Reeta Wattal
- Prof. B. B. Arora
- Prof. Ashok Kumar Madan
- Prof. Raj Kumar Singh
- Prof. Amit Pal
- Prof. R. C. Singh
- Prof. Rajesh Kumar
- Prof. Qasim Murtaza
- Prof. Rajiv Chaudhry
- Prof. Atul Kumar Agrawal
- Prof. Vijay Gautam
- Prof. Akhilesh Arora
- Prof. Girish Kumar

#### Associate Professors: 07

- Mr. Vishva Kamal
- Mr. P. V. Ram Kumar
- Dr. Pushpendra
- Dr. Mahendra Singh Niranjana
- Dr. Pravin Kumar
- Dr. Anil Kumar
- Dr. Roop Lal

#### Assistant Professors: 08

- Dr. Manjunath K
- Dr. Krovvidi Srinivas
- Dr. Sanjay Kumar
- Dr. Naushad Ahmad Ansari
- Dr. Mohammad Zunaed
- Dr. Paras Kumar
- Dr. Raghvendra Gautam
- Dr. Sushila Rani

#### Foreman Instructors: 02

- Mr. P. K. Jain
- Dr. N. Yuvraj

## AREAS OF INTEREST

Operations And Supply Chain Management, Quality Engineering and Management, Automation and Industry 4.0, Thermal Engineering, IC Engine, Solar Energy, CAD/ CAM, Application of ANN & GA, Production Engineering, Applied Mechanics, Production Engg. & Materials, Metal Coating Advance Machining, Solid Mechanics, Machine Design and Finite Element Method, Design Engineering, Industrial Management.



## Details of FDPs/Conferences/Seminars/Symposia/Workshops/STP/Guest Lecture/Administrative Training Programmes organized by the Department:

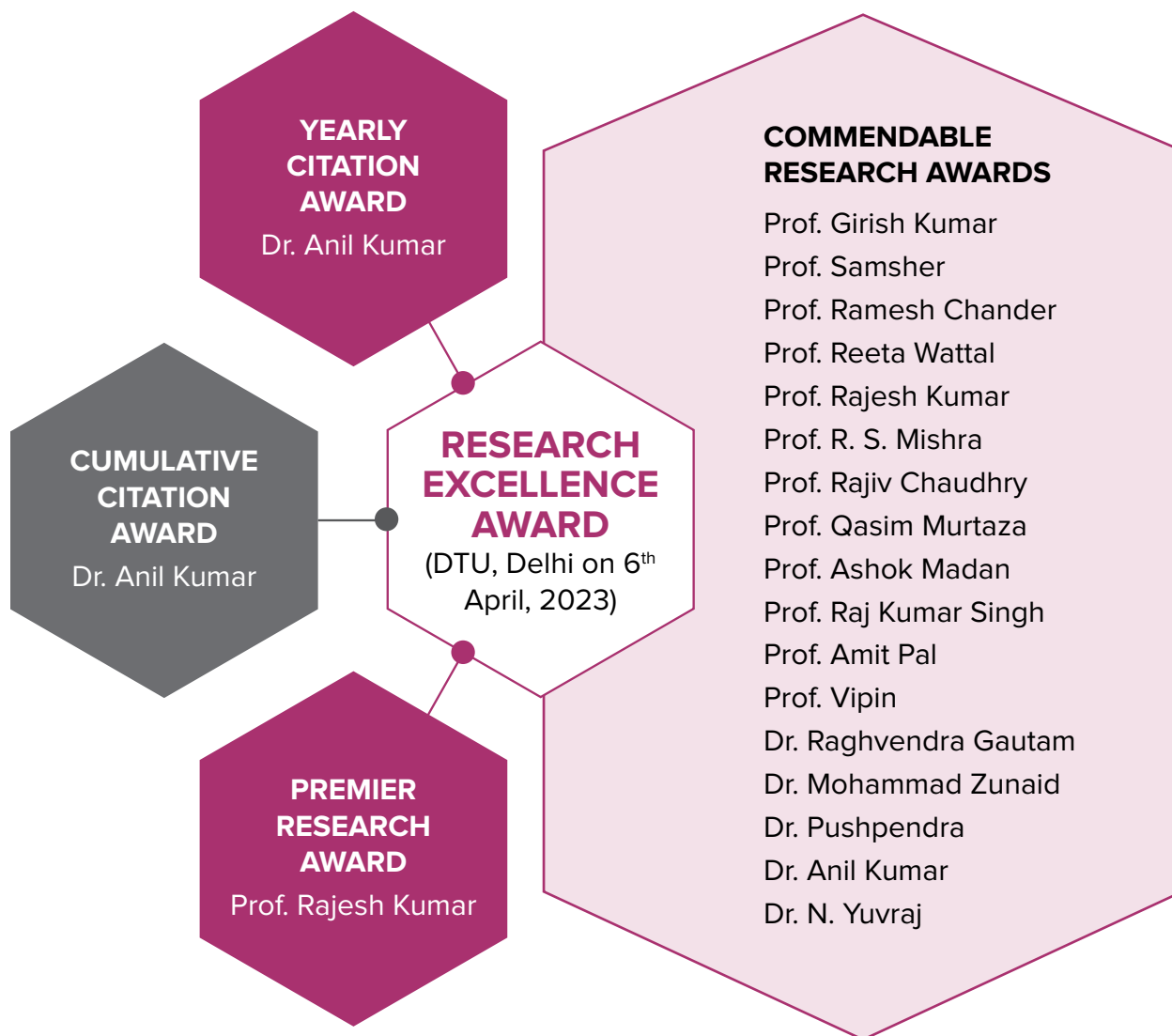
Organized One-Day Seminar to celebrate “Innovative Rural Application of Clean Energy” by Centre for Energy and Environment, Dept. of Mechanical Engineering, DTU, Delhi, on 25<sup>th</sup> February, 2023

Dr. M. Zunaid coordinated for Inter Departmental Sport Tournament “ARENA-2023”, organized by sports council DTU, during 20<sup>th</sup> - 22<sup>nd</sup> January, 2023.

## Participation in Professional Development Programmes by Faculties during Current Year:

Name of Faculty	Title of Event	Organizer & Duration
Dr. N. A. Ansari	One-Day National Seminar on “Implementation of NEP-2020 in Special Reference to Innovation and Entrepreneurship”	Applied Physics Department, DTU, Delhi, on 24 <sup>th</sup> February, 2023
Dr. M. Zunaid	One-Day National Seminar on “Urban Emissions, Climate and Health Hazards-(SUCH-2023)”,	Department of Environmental Engineering, DTU in collaboration with IIC on 21 <sup>st</sup> February, 2023.
	One-Day Workshop on “Application of Renewable Energy Systems in EV Charging Infrastructure”	CoE for Electrical Vehicles and Related Technologies, Dept. of Electrical Engineering, DTU, Delhi, on 22 <sup>nd</sup> February, 2023.
	One-Day Seminar to celebrate “Innovative Rural Application of Clean Energy”	Centre for Energy and Environment, Dept. of Mechanical Engineering, DTU, Delhi, on 25 <sup>th</sup> February, 2023
	Three Days auditor training course of “ISO 9001:2015”	STQC ETDC Solan, during 19 <sup>th</sup> - 21 <sup>st</sup> July, 2023
	2 <sup>nd</sup> International Conference on “Multidisciplinary Approaches in Technology and Social Development (ICMATSD-2023)”	Institute For Engineering Research and Publication (IFERP) in Seoul, South Korea as Hybrid Conference, on 13 <sup>th</sup> - 14 <sup>th</sup> July, 2023.

## Awards and Recognition at State, National, International level from Recognised bodies:



## Professional Membership :

### Prof. R. S. Mishra

- Life Fellow Member of the Institution of Engineers (India)-Calcutta, Geological Society of India-Bangalore, Indian Institution of Environmental Engineers-Delhi, Indian Water Resources Society-Roorkee, Indian Institute of Disaster management- Delhi, National foundation of Indian Engineers- Delhi.
- Life Member of :-
  - Solar Energy Society of India, Delhi.
  - Bio Energy Society of India.
  - Indian Society of Biotechnology and Bio Chemistry, Delhi.
  - Indian Society of Soil Sciences, IARI, Delhi.
  - Indian Institute of Chemical Engineers, Calcutta.

- Indian Society of Water Management, Delhi.
- Indian Society of Agricultural Engineers, Delhi.
- Indian Society of Soil Conservation.
- Indian Society of Information technology and Statics.
- Systems Society of India.
- Association of Food Scientists & Technologists (India), Bangalore.
- Association of Soil and Water Conservationist (India), Dehradun.
- Indian Society for Technical Education (ISTE).
- Indian Society of Mechanical Engineers, Delhi.
- Indian Society of Dry Land agriculture, Hyderabad.

#### **Prof. S. K. Garg**

- Life Fellow; The Indian Institution of Industrial Engineering.
- Life Member; Indian Society of Technical Education; Global Institute of Flexible Technology.

#### **Prof. Naveen Kumar**

- Fellow of Institution of Mechanical Engineers, UK.
- Fellow of Institution of Engineers, India.
- Chartered Engineer, Engineering Council, UK.

#### **Prof. Vipin**

- Life Member; Indian Society of Mechanical Engineers, Indian Society of Technical Education ISTE.

#### **Prof. Rajesh Kumar**

- Member; SESI (LM/2037/2013).

#### **Prof. V. Gautam**

- Member; Society of Automotive Engineers, India (M No.:7160311104).

#### **Prof. Reeta Wattal**

- Life Member; ISME, ISTE, IIWE

#### **Prof. Amit Pal**

- Life Member; Indian Society of Mechanical Engineers (LM-1047), Indian Society of Technical Education (LM86407), Solar Energy Society of India (LM/2045/2014), Ultrasonic Society of India (LM-257).
- Expert Member; DTC CNG Bus procurement committee, DTC Electric Bus procurement committee, Govt. of Delhi, Bus fire incidents investigation committee.

#### **Dr. Anil Kumar**

- Fellow Membership; The Institution of Engineers (India) (vide no. F-1268879, date of election 24<sup>th</sup> August, 2020).
- Chartered Engineer; The Institution of Engineers (India) (vide no. F-1268879, date of election 3<sup>rd</sup> September, 2020).
- Fellow Membership; International Scientific Research Organization for Science, Engineering and Technology (ISROSET-FM-1092).

#### **Dr. Akhilesh Arora**

- Life Member; Indian Society of Technical Education
- Member of ISHRAE, ASHRAE, American Society of Heating, Refrigerating and Air Conditioning Engineers, Indian Society of Heating, Refrigerating and Air-Conditioning Engineers.

#### **Dr. Roop Lal**

- Life Member; Institution of Engineers, Kolkata.

#### **Dr. Paras Kumar**

- Life Member; Indian Society for Technical Education (LMISTE), Tribology Society of India, International Association of Engineers (IAENG).

**Dr. K. Manjunath**

- Life Member; Indian Society for Technical Education (ISTE) (LM 43996).
- Fellow of Institution of Engineers, India (FIE), (F-1240015).

**Dr. Pravin**

- Life Member; Institution of Engineers (India), Kolkata, System Society of India, Society of Operations Management, India
- Life Associate Member; IIIE, India.

**Dr. Pushpendra Singh**

- Life Member; ISCA, FSIESRP
- Senior Member ; ISME

**Dr. Sushila Rani**

- Life Member; Indian Society of Technical Education.

**Dr. M. Zunaid**

- Life member; Indian Society of Heat and Mass Transfer (ISHMT) (LM- 722), Indian Society for Technical Education (ISTE), (LM 82172), Solar Energy Society of India (SESI) (LM/2046/2014), The Institution

of Engineers India (IEI) (M- 1533457), Indian Society of Heating Refrigeration & Air Conditioning Engineers (ISHRAE) (21819), Society for Fusion of Science and Technology (SFST) (LM/ 2017/ 106), Society for International Association of Engineers (IAENG) (248647), Indian Society of Mechanical Engineers (ISME) (L-1223).

**Dr. Naushad Ansari**

- Life Member; Indian Society for Technical Education (ISTE) (LM 80889), Solar Energy Society of India (SESI) (LM/2044/2014),
- Member; Indian Society of heating Refrigeration & Air-conditioning Engineers (ISHRAE) (21818). International Association of Engineers (IAENG) (266658).

**Dr. K. Srinivas**

- Member; Institution of Engineers (India), Kolkata, Indian Society for Technical Education, Powder Metallurgy Association of India.



## 4.15 DEPARTMENT OF SOFTWARE ENGINEERING

**Prof. Ruchika Malhotra**  
HoD

### ACADEMIC PROGRAMMES

#### **B. Tech. (Software Engineering)**

Intake : 181  
Admitted : 181

#### **M. Tech. (Software Engineering)**

Intake : 25  
Admitted : 22

#### **M. Tech. (Data Science)**

Intake : 30  
Admitted : 20

**Ph.D. : 02**

### SALIENT FEATURES

The department of Software Engineering is dedicated to produce high quality graduate and skilled software engineers/professionals who can develop high quality and cost-effective software systems. The department of Software Engineering was introduced in March 2021. All the software engineering programs are well designed keeping in view of the industry demands. The programs are designed to build the analytical and practical capabilities of students in the design and development of the software and lays emphasis on well-defined and systematic approach for meeting the growing demands and requirements of the software industry. The curriculum is regularly updated in accordance with the latest trends, research and best practices in the software industry and academia.

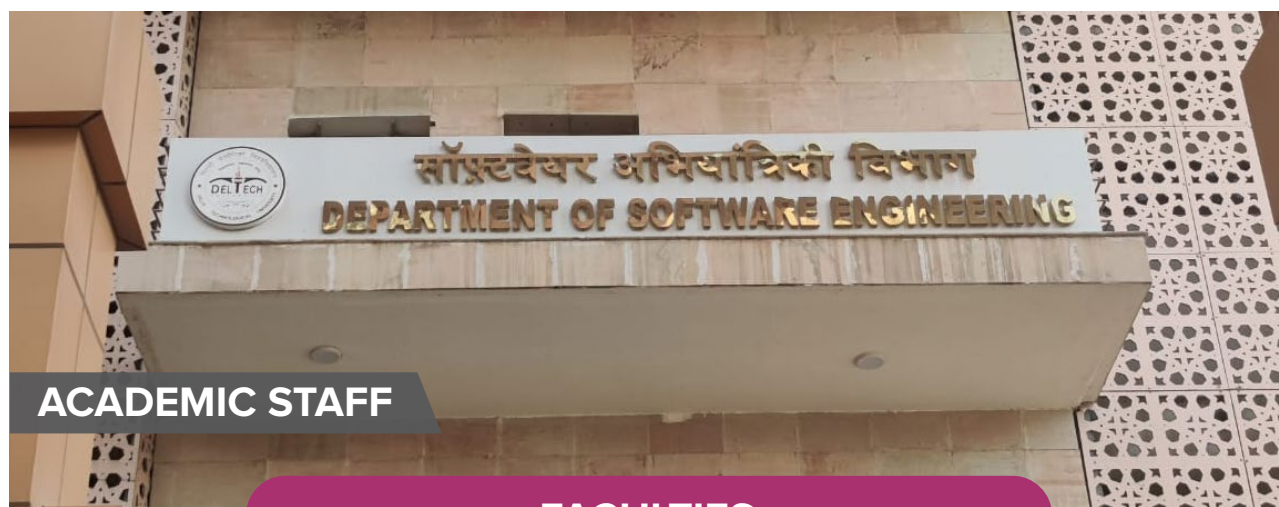
### RESEARCH PUBLICATIONS

JOURNALS

**20**

CONFERENCES

**43**



## ACADEMIC STAFF

### FACULTIES

#### Professor: 01

- Prof. Ruchika Malhotra (HoD)

#### Assistant Professors: 07

- Dr. Abhilasha Sharma
- Dr. Divyashikha Sethia
- Mr. Sanjay Patidar
- Dr. Sonika Dahiya
- Mr. Rahul
- Ms. Shweta Meena
- Ms. Priya Singh

### AREAS OF INTEREST

Machine Learning and Predictive Modelling, Software Testing and Quality, Empirical Software Engineering, DBMS, Web Technology, Distributed Systems, Computer Networks, Cryptography, Data Mining, Theory of Computation, Data Structures, Deep Learning, Sentiment Analysis, Cloud Native, 5G Core Network, Analog and Digital VLSI Design, Fault Tolerance Design, Computer Architecture and Modelling and Simulation, Web Technology and Fundamentals of Computer.



### Achievements of the Department:

Efkon India Private Limited signed an MoU in 2020 for Four years to set up an Intelligent Transportation System Facility at DTU, Delhi for Research and Innovation.

### Details of FDPs/Conferences/Seminars/Symposia/Workshops/STP/ Guest Lecture/Administrative Training Programmes organized by the Department:

- Prof. Ruchika Malhotra and Priya Singh organized the “World Entrepreneurs Day”, by SAMADHAAN’22 on 22<sup>nd</sup> August, 2022.
- Prof. Ruchika Malhotra organized the “Diwali Mela UPHAAR”, on 18<sup>th</sup> October, 2022.
- Prof. Ruchika Malhotra and Priya Singh organized the “Alumni Meet”, on 4<sup>th</sup> November, 2022.
- Dr. Divyashikha Sethia and Rahul organized the “Meditation Workshop”, from 9<sup>th</sup> to 11<sup>th</sup> November, 2022.
- Prof. Ruchika Malhotra and Dr. Abhilasha Sharma organized the “Hawan/Yagaya”, on the occasion of Navratrion 28<sup>th</sup> March, 2023.
- Prof. Ruchika Malhotra and Shweta Meena organized one-day Online Workshop on “Recent Trends in Data Science”, on 31<sup>st</sup> May, 2023.
- Prof. Ruchika Malhotra and Priya Singh organized the “Farewell”, for outgoing B.Tech-Class of 2023 on 9<sup>th</sup> June, 2023.
- Prof. Ruchika Malhotra and Shweta Meena organized the “Farewell Party”, for outgoing M.Tech-Class of 2023 on 14<sup>th</sup> June, 2023.
- Prof. Ruchika Malhotra organized the “Hawan / Yagaya”, in the Newly Constructed Building on 24<sup>th</sup> July, 2023.

### Faculties Provided with Financial Support to attend Conference/ Seminar/ Symposia/ Workshop/ STC/ FDP/ Training etc. during Current Year:

Name of Faculty	Title of Event attended with financial support provided by DTU	Organized by	Amount of support (₹)	Date(s)
Prof. Ruchika Malhotra	4 <sup>th</sup> International Conference on Data Analytics & Management (ICDAM) 2023	London Metropolitan University	1,50,000/-	21 <sup>st</sup> - 29 <sup>th</sup> June, 2023
Mr. Sanjay Patidar, Ms. Shweta Meena and Ms. Priya Singh	FDP on Advanced Pedagogy	Department of ECE, DTU, Delhi	7,000/-	10 <sup>th</sup> - 21 <sup>st</sup> July, 2023
Mr. Rahul	FDP on Cyber Security and Networking	ALTTC, Ghaziabad, UP	11,800/-	06 <sup>th</sup> - 22 <sup>nd</sup> July, 2023

## Participation in Professional Development Programmes by Faculties during Current Year:

### PARTICIPATION IN PDPs

#### Mr. Rahul

**Event:** Three days Workshop on “Intellectual Property (IP) Awareness Program”

**Organizer:** IPR Cell, DTU, Delhi, during 12<sup>th</sup> – 14<sup>th</sup> Dec, 2022

**Prof. Ruchika Malhotra**  
**Dr. Abhilasha Sharma**  
**Dr. Sonika Dahiya | Mr. Rahul**  
**Mr. Sanjay Patidar | Ms. Priya Singh**  
**Ms. Shweta Meena**

**Event:** “World Entrepreneurs Day”

**Organizer:** SAMADHAAN’22, Dept. of SE, DTU on 22<sup>nd</sup> August, 2022

**Mr. Sanjay Patidar**  
**Ms. Shweta Meena | Ms. Priya Singh**

**Event:** “Advanced Pedagogy”

**Organizer:** ECE, DTU, Delhi during 10<sup>th</sup> - 21<sup>st</sup> July, 2023

**Prof. Ruchika Malhotra**  
**Dr. Divyashikha Setia**  
**Dr. Abhilasha Sharma | Mr. Rahul**  
**Mr. Sanjay Patidar | Ms. Priya Singh**  
**Ms. Shweta Meena**

**Event:** “Meditation Workshop”

**Organizer:** Dept. of SE, DTU, from 9<sup>th</sup> -11<sup>th</sup> November 2022

**Event:** “Recent Trends in Data Science”

**Organizer:** Dept. of SE, DTU, on 31<sup>st</sup> May, 2023

#### Mr. Rahul

**Event:** Three day’s Workshop on “Intellectual Property (IP) Awareness Program”

**Organizer:** IPR Cell, DTU, Delhi, during 12<sup>th</sup> – 14<sup>th</sup> Dec, 2022

**Event:** Two weeks Industrial Training on “Cyber Security and Networking”

**Organizer:** ALTTC, Ghaziabad, UP during 06<sup>th</sup> - 22<sup>nd</sup> July, 2023

## Awards and Recognition at State, National, International level from Recognised Bodies:

### Research Excellence Award (DTU, Delhi on 6<sup>th</sup> April, 2023)

#### Prof. Ruchika Malhotra

- Cumulative Citation Award: SILVER
- Highly Cited Paper Award
- Yearly Citation Award: Early Research Impact and Influence Award
- Commendable Research Award

#### Ms. Shweta Meena

Commendable  
Research Award



## 4.16 UNIVERSITY SCHOOL OF MANAGEMENT AND ENTREPRENEURSHIP

**Prof. Amit Mookerjee**  
HoD

### ACADEMIC PROGRAMMES

#### B.A. (H) (Economics)

Intake : 182  
Admitted : 182

#### BBA

Intake : 182  
Admitted : 180

#### M.A. (Economics)

Intake : 60  
Admitted : 60

#### MBA

Intake : 120  
Admitted : 117

#### MBA (Business Analytics)

Intake : 40  
Admitted : 28

#### MBA (IEVD)

Intake : 40  
Admitted : 12

#### Ph.D. : 06

### RESEARCH PUBLICATIONS

JOURNALS

**27**

CONFERENCES

**05**

PATENTS

**02**

### SALIENT FEATURES

The East Delhi Campus of the DTU, was inaugurated in August, 2017, by the Hon'ble Chief Minister of Delhi Shri Arvind Kejriwal, and the Hon. Deputy Chief Minister of Delhi, Shri Manish Sisodia, in the August, presence of Hon. Vice Chancellor, Prof. Yogesh Singh, Hon. PVC, Prof. Anu Singh Lather and Prof. S. K. Garg, and a gathering of esteemed members of the Government of Delhi, respected academics and others. The East Delhi Campus of DTU is functional since 2017-18 academic session, offering both undergraduate and postgraduate programs, and is situated at Vivek Vihar Phase II, New Delhi.

In alignment with the vision and mission of the DTU, this campus endeavors to provide quality education, research and innovation in the emerging areas of management relevant to industry and society. The University School of Management and Entrepreneurship was initiated with the view to fulfill this mission and the able leadership of the PVC II, Prof. Anu Singh Lather, as the founding head of East Delhi Campus, DTU has helped create a multidisciplinary approach towards entrepreneurship, embedded in a management school, which would be able to leverage the rich and esteemed heritage of the DTU in the world of technology and best practices in higher education. The prime focus of the USME was on the introduction of new UG and PG programs in the emerging areas of management such as business analytics, entrepreneurship and family business, public policy and financial Markets etc. along with traditional undergraduate and postgraduate management programs. It aims to foster the educational ethos in its programs, of employability through industry relevant programs, on focused domains of knowledge creation and innovation, through research and development. It looks to harness and leverage

## SALIENT FEATURES Cont.

Techno - Entrepreneurship and knowledge enterprise development through the centers of Entrepreneurship Development and Organizational Development.

From the 2017-18 academic year, it has offered Programs in Bachelor of Business Administration (B.B.A.), Bachelor of Arts (Hons.) in Economics (BAE) and Master of Business Administration (M.B.A.). The second PG program, M.B.A. Business Analytics, was launched in the academic year 2018-19. Two more programs M.B.A. Family Business and Entrepreneurship and M.B.A.-Innovation, Entrepreneurship and Venture Development (IEV) in the academic year 2019-20. This was in line with the mission of the USME to offer cutting edge programs in emerging and critical emerging areas of industry and societal needs for talent. The department also offers Ph.D. programs in Management, Economics and IEV. We launched the MA Economics program in the 2022-23 academic year and admitted 62 students into the course. We have successfully filled all available seats for the first batch.

The school has designed programs to develop the capability amongst students for managing complex situations and relationships. Amongst the various skills of management courses, some of them focus on strengthening management principles, presentation, problem solving, team building, decision-making and marketing. Hence, management programs running in the school will help the country in producing talented and skilled workforce.

There has been active involvement of students and faculty in the various professional activities and student events. The department has 18 student clubs built around professional, cultural, social and sports related interests. Guest lectures, events, visits to industries and trade fairs, all have led to an all-round exposure of students at USME to the rapidly changing economic and industrial scenario. Executive MBA in Data Science and Analytics was launch for working professionals with minimum three years of industry experiences.

## LABORATORIES

The department currently has two computer laboratories equipped with the latest version of different software platforms and systems. There has been active involvement of students and faculty in the various professional activities and student events. The department has 18 student clubs built around professional, cultural, social and sports related interests. Guest lectures, events, visits to industries and trade fairs, all have led to an all- round exposure of students at USME to the rapidly changing economic and industrial scenario.





## ACADEMIC STAFF

### FACULTIES

#### Professors: 02

- Prof. Amit Mookerjee (HoD)
- Prof. K. V. Bhanumurthy (Adjunct)

#### Associate Professors: 01

- Dr. Nidhi Maheshwari

#### Visiting Faculty: 03

- Prof. Manoj Kumar Sharma
- Dr. Sanjay Bhattacharya
- Mr. S. M. Rounaque Mustafa

#### Assistant Professors: 14

- Mr. Anurag Chaturvedi
- Ms. Harleen Kaur
- Ms. Priya Malhotra
- Dr. Varsha Sehgal
- Ms. Pallavi Sethi
- Dr. Naval Garg
- Dr. Deepti Aggrawal,
- Dr. Gaganmeet Kaur Awal
- Dr. Kusum Lata
- Dr. Aakanksha Kaushik
- Dr. Virender Kumar
- Mr. Puneet Arora
- Dr. Rajesh Sharma
- Dr. Ratnam Mishra

#### AREAS OF INTEREST

Customer relationship management, consumer insights, Economics, HR Leadership, Brand Strategy, FRM, Financial Management, Investment Management, Strategic Management, Workplace Spirituality, Innovation Diffusion in marketing, Decision Sciences, Machine Learning and Data Mining, Macroeconomics, Time Series Econometrics, Monetary Economics, Panel Data Econometrics, Health Economics, Epidemiology, Leadership, Entrepreneurship, Corporate Venturing.

**Achievement of the Department:**

New Program of BBA (Innovation, Entrepreneurship and Venture Development) got Sanctioned.

**Events Organized by the Department:**

1. Dr. Deepti Aggrawal and Ms. Aakanksha Kaushik Organized One Day seminar on "Significance of MSME sector in India", on 26<sup>th</sup> April, 2023.
2. Dr. Deepti Aggrawal and Dr. Virender organized a One Day seminar on "Gender Diversity at workplace", on 14<sup>th</sup> November, 2022.
3. Prof. S. M. Rounaque Mustafa & Ms. Harleen Kaur organized One Day seminar on "1<sup>st</sup> Annual Conclave on Family Business", on 14<sup>th</sup> September, 2022.
4. Prof. S. M. Rounaque Mustafa and Dr. Varsha Sehgal organized a One Day workshop on "Demystifying the MetaVerse", on 30<sup>th</sup> November, 2022.
5. Prof. S. M. Rounaque Mustafa organized One Day workshop on "Startup Day", on 16<sup>th</sup> January, 2023.
6. Prof. S. M. Rounaque Mustafa organized Two Days workshop on "EBuzz 2.0" from 20<sup>th</sup> to 21<sup>st</sup> February, 2023.
7. Dr. Kusumlata and Dr. Priya Malhotra organized One Day workshop on "Research Writing, Plagiarism and Reference Management", on 2<sup>nd</sup> November, 2022.
8. Dr. Varsha Sehgal organized One Day workshop on "Entrepreneurship Skill, Attitude and Behavior Development", on 28<sup>th</sup> February, 2023.
9. Dr. Varsha Sehgal and Prof. S. M. Rounaque Mustafa organized One Day workshop on "Angel Investment/VC Funding Opportunities for Early Stage Entrepreneurs", on 30<sup>th</sup> August, 2022.
10. Dr. Virender Kumar and Dr. Varsha Sehgal in collaboration with NSS & Save Life foundation organized One Day workshop on 20<sup>th</sup> April, 2023.
11. Dr. Kusum Lata and Dr. Gaganmeet Kaur Awal organized One Day seminar on "Cyber Security-Need of the hour", on 20<sup>th</sup> October, 2022.

**Awards and Recognition at State, National, International level from Recognised Bodies:**

**RESEARCH EXCELLENCE AWARDS**  
(DTU, Delhi on 6<sup>th</sup> April, 2023)

**COMMENDABLE RESEARCH AWARDS**

Dr. Rajesh Sharma  
Dr. Deepti Aggrawal

## Participation in Professional Development Programmes by Faculties during Current Year:

**Dr. Kusum Lata**

**Event:** Five Days FDP on “Academic Administration”

**Organizer:** Ramanujan College, under the aegis of Ministry of Education Pandit Madan Mohan Malviya national Mission on Teachers and Teaching during 7<sup>th</sup> - 12<sup>th</sup> November, 2022

**Dr. Kusum Lata and  
Dr. Naval Garg**

**Event:** A conference on “Shaping the Future of Management Education for Sustainable Emerging Economies” on the theme: Changing Face of Management in a Digital World

**Organizer:** IIT Roorkee

**Dr Priya Malhotra**

**Event:** One Month NITTT FDP

**Organizer:** AICTE NITTTR Chennai from September - October 2022

**Event:** One Month PMMMNMTT Four-week Faculty Induction Program

**Organizer:** TLC Ramanujan College from July - August 2023

**Dr. Nidhi Maheshwari**

**Event:** One Month NITTT FDP

**Organizer:** AICTE NITTTR Chennai from September - October 2022

**Event:** One Month PMMMNMTT Four-week Faculty Induction Program

**Organizer:** TLC Ramanujan College from July - August 2023

## Students' Achievements and Recognition:

Startup recognized as “**Top 75 Emerging Start-Ups in India**” by AICTE and Ministry of Education, Government of India

Incubated at DTU-IIF under the MBA-IEV program of USME, DTU.

**Mr. Shubham Prajapati:** “Innovative Scripts Private Limited”, a DPIIT- Startup India, recognized start-up, working on the cutting-edge technologies such as Blockchain, Artificial Intelligence, AR, VR and Mixed Reality.

**Ms. Pranati:** Awarded by Hon'ble Delhi Education Minister, Ms. Atishi for being a panelist and mentor in the **Desh Ke Mentor Conclave.**

1<sup>st</sup> position in badminton for ARENA'23, DTU.

3<sup>rd</sup> position for girls shotput in ARENA'23, DTU.

**Mr. Suhans Bansal:**

Received Best Paper Presenter Award at 12<sup>th</sup> Asian Society for Innovation and Policy's (ASIP) International Conference, organized by IISc and MSRUAS, Bangalore.

**NISHITA**

(BBA 3<sup>rd</sup> Year)

1<sup>st</sup> position in AAHVAN badminton girls.

1<sup>st</sup> position in ARENA '23.

2<sup>nd</sup> position in IIIT DELHI ASTRA.

Cleared CA FOUNDATION.

**KAPIL RUKHEJA**

(BAE 3<sup>rd</sup> Year)

1<sup>st</sup> position "Wallstreet Warriors" in crescendo issued by financial

**RAMANDEEP SINGH**

(BAE 3<sup>rd</sup> Year)

1<sup>st</sup> Prize in Data Analytics competition held by St. Stephens College, Delhi University

**SHRESHTHA BHATIA**

(BAE 3<sup>rd</sup> Year)

1<sup>st</sup> Prize in Data Analytics competition held by St. Stephens College, Delhi University



Name	Roll No.	Program	Semester	Award / Recognition
Mehak Gupta	2K22/BAE/99	BAE	3 <sup>rd</sup>	Volunteer in December 2022 and March 2023 (Rotaract club of USME), Certificate of recognition for being recognized as the club member for the year 2022-23 in Rotaract, Certificate of being trained as the Director of Community Services (Rotaract)
Shubham Bhatt	2K22/UMBA/66	MBA	3 <sup>rd</sup>	Business Plan Competitions, 2023 State Level 1 <sup>st</sup> Position in Ideathon - organized by USME, DTU

Venkata Ramana Deepak Malyala	2K21/IMBA/14	MBA-IEV	4 <sup>th</sup>	Exceptional contribution as a Business Coach in the Delhi Government's Business Blasters program 2022-23 for classes 11 <sup>th</sup> and 12 <sup>th</sup>
Ridhima Nagpaul	2K22/BAE/133	BAE	3 <sup>rd</sup>	Joint Secretary in the core team of RaC USME for the tenure 2023-24 Certificate of recognition for being recognised as the club member (2022-23) Certificate of recognition for the Best Rotaractor in December 2022 3 <sup>rd</sup> position in Table Tennis in the Educators Net Clash Competition, USME, DTU
Pulkit Kumar	2K22/UMBA/76	MBA	1 <sup>st</sup>	3 <sup>rd</sup> position in badminton in the educators net clash competition, USME, DTU.
Anshika Goel	2K22/BAE/23	BAE	3 <sup>rd</sup>	Certificate for being trained as Director of International Services -(Rotaract). Certificate of being recognised as club member for year 2022-23 - (Rotaract) Certificate for valuable contribution as Core Member of Ecotech for year 2022-23. Certificate for getting selected among top 5 ideas of techstars- startup weekend Delhi '23. Certificate for participation in explorer's weekend '23 (Rotaract).
Radhika Goel	23/UMBA/79	MBA	1 <sup>st</sup>	Certificate of appreciation for being in the team of Social Media at Zosh- The Marketing society at IGDTUW, Delhi Certificate of completion of a free online course of Front End Development - HTML.
Sahil Mehta	23/UMBA/90	MBA	1 <sup>st</sup>	11 <sup>th</sup> rank in B.B.A. Batch of 2023, DSPSR Received accolades for working on a project based on Brand dealing in Headphones 1 <sup>st</sup> position in Inter School Basketball Tournament 2 <sup>nd</sup> position in Inter School Cricket Tournament
Vivek Maggo	2K22/BAE/175	BAE	3 <sup>rd</sup>	Certificate for completing internship with Younity.in Certificate for valuable contribution as core member with EcoTech, Rotaract and Pradarshani Certificate for getting selected among top 5 ideas of techstars- startup weekend Delhi '23.
Ankit Akshay Akash Jain Abhishek S Iyer	2K22/UMBA/19 2K22/UMBA/17 2K22/UMBA/09	MBA	3 <sup>rd</sup>	2 <sup>nd</sup> position in Group Discussion Series Manthan organized by Vimarsh Club on De-Dollarization

Nirmal Singh Sachdeva	2K21/BBA/97	BBA	5 <sup>th</sup>	Won the national level scholarship competition held by Ernst & Young (EY), National Finalist at Case Competition: Case Conundrum at SRCC
Shikha Gambhir	2K23/UMBA/95	MBA	1 <sup>st</sup>	Institute topper for the BBA 2023 Participated in Earth Day Quiz Competition in year 2022
Aanya Aggarwal	2k21/BBA/01	BBA	5 <sup>th</sup>	Won 3 <sup>rd</sup> position at Business Masters, organised by JIMS Finalist of slam poetry competition, organised by NIFT Certificate for being in the core organizing committee of the competitions, organised by Sahitya for ENGIFEST - Asia's 3 <sup>rd</sup> largest college cultural fest Certificate for being in the core organizing committee of the competitions organised by Sahitya for YUVAAN



## Major Students' Events Organised:

### INIZIO'22

Pradarshani performed a play on the college life for the freshers.

**No. of participants:** 300+

**Date:** 15<sup>th</sup> Dec, 2022

### PARODY MAKING

All the members of Pradarshani made parodies of some famous reality shows.

**No. of participants:** 30+

**Date:** 20<sup>th</sup> Feb, 2023

### TEQUILA NIGHT

Pradarshani organized tequila night which was a fun and entertaining night organized for the freshers of college to get them familiar with the overall vibe of the college, and get them on board with a sweet gesture. It was followed by fun games and prizes associated to them.

**No. of participants:** 500+

**Date:** 3<sup>rd</sup> Dec, 2022

### INVESTING & TRADING FOR BEGINNERS

As demand for this topic was high among the members, a webinar on the same was conducted. This session aims to provide beginners with a fundamental understanding of investing and trading in financial markets. Our industry specialist will share valuable insights and practical tips to help you get started on your investment journey.

**No. of participants:** 200+

**Date:** 22<sup>nd</sup> Jan, 2023

### VIPANAN

Participants engage in four intellectually stimulating roasting sessions spanning two days, showcasing their eloquence and wit. Each session pairs two industry giants, with participants strategically choosing sides. Creativity, language proficiency, and factual precision determine the victors, announced at the competition's culmination.

**No. of participants:** 250+

**Dates:** 20<sup>th</sup> – 24<sup>th</sup> Aug, 2022

### STARTUP CONCLAVE

On the occasion of national start-up day, E-Cell USME DTU organised a conclave in collaboration of PR Cell, aimed at promoting and celebrating the spirit of entrepreneurship among the youth in India. The event provides a platform for young entrepreneurs, startup founders, investors, and industry experts to come together and share their experiences, ideas, and insights.

**No. of participants:** 100+

**Date:** 16<sup>th</sup> Jan, 2023

### E-CELL: CAUSE AND CONSEQUENCE

The Entrepreneurship Club of DTU USME organised a case study competition for students interested in exploring the field of entrepreneurship. The competition aims to provide a platform for students to showcase their analytical and problem-solving skills, as well as to gain valuable experience in the field of business management. Participants were presented with a business case study that will require them to analyze the situation, identify the problem areas, and come up with effective solutions from an entrepreneurial perspective. The case study competition was conducted online through Unstop and google meet, and had two rounds, Attracted 100 participants from various colleges of Delhi and India.

**No. of participants:** 100+

**Dates:** 4<sup>th</sup> – 6<sup>th</sup> Aug, 2022



## 5. Centres and Other Units

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

DTU Innovation and Incubation Foundation (DTU IIF) was established as per the policy guidelines of Govt. of NCT of Delhi on summary recommendations for setting Incubators in Higher Education Institutions in Delhi by a working group established by the Government of National Capital Territory of Delhi, under order No.F.75(73)/2015-16/ Incubation/ADPL/321-330 dated 5/6/15 to pursue the following core objectives as given in the guidelines by the Government of NCT of Delhi:

#### OBJECTIVES

To create a culture of entrepreneurship, Start-ups, and, and Intellectual Property Creation that can value creation, jobs and employment and do social and economic good.

To facilitate creation of incubation centres that offer incubation infrastructure space, computing resources, connectivity, common tools; and environment for co- working, collaboration, and innovation.

Create entrepreneurship challenges based upon existing problems to foster Innovation.

DTU IIF is promoted and established by Delhi Technological University under Section 8, (LicenseNumber107658, CIN of the company is U74999DL2016NPL305531), as per Companies Act of Govt. of India, as Incubation Centre i.e., Technology Business Incubator (TBI) of Delhi Technological University (DTU). The Vision and Mission of DTU IIF:

#### VISION

To create the Entrepreneurial Ecosystem by Innovation to provide enhanced value propositions to the customers and create wealth and employment for everyone.

#### MISSION

To provide incubation and business support services to Startups/ Companies of DTU IIF so that they can grow and prosper.

## Organization Structure:

<b>Prof. S. Indu</b> Dean Student Welfare, DTU	Chairperson & Director
<b>Prof. J. P. Saini,</b> Vice Chancellor, MMMUT, Gorakhpur	Director
<b>Prof. Madhusudan Singh</b> Registrar, DTU	Director
<b>Prof. M. N. Doja</b> Director, IIIT Sonapat	Director
<b>Prof. S. K. Garg</b> HoD, Mechanical Engineering	Director
<b>Prof. Anu Singh Lather</b> Vice Chancellor, Ambedkar University	Director
<b>Prof. Ashutosh Trivedi</b> Civil Dept., DTU	Director

<b>Prof. Samsher,</b> Vice Chancellor, HBTU, Kanpur	Director
<b>Prof. Amit Mookerjee</b> Director, USME	Director
<b>Dr. R. K. Shukla</b>	Director
<b>Dr. Girish Kumar</b>	CEO/Director
<b>Dr. Rajiv Dwivedi</b>	Coordinator
<b>Sh. Sanjay Patidar</b>	Coordinator
<b>Dr. Sachin Taran</b>	Coordinator
<b>Dr. Ritu Agarwal</b>	Coordinator
<b>Dr. Deepali Malhotra</b>	Coordinator
<b>Mr. Kavinder Singh</b>	Coordinator
<b>Dr. Ratnam Mishra</b>	Coordinator
<b>Mr. Neeraj Rathee</b>	Coordinator

## Details of Currently Incubating Startup Companies at DTU-IIF:

Manish Mega Mart Pvt. Ltd.  
U52609DL2021PTC391368

MMMart is a newly stabilised demand driven B2B2C digital platform that bridges the gap between consumers and farmers to gain access to farm fresh produce (fruits and vegetables) at the lowest possible price. MMMart is working on expanding its product portfolio to fruits, vegetables, groceries, bakery and dairy products along with a steady expansion across Delhi & NCR markets. We are aiming to develop machinery powered with technology and harvest on predicted demand to reduce wastage, increase profitability and create more jobs".

Eythor Pvt. Ltd.  
U72200HR2021PTC099893

Eythor is a proposed Product-as-a-Service (PaaS) inventing advanced optimized Robots for domestic and industrial use with Solar Cleaning Robot as our first product. With Eythor, we wish to develop Made-In-India Robots ranging in different domains and thus reducing energy losses and aiming for a cost-cutting mechanism for Industrial & Domestic use. We would be focusing on R&D and deploying Customer-Driven products in the National & International market. We would be using LORA Technology which is long range and low-power mode which is highly efficient along-with high-speed data transfer rate Our product would be composed of aluminum carbon fiber having high tensile strength and light weight from existing variants present in the market We would be implementing structural engineering in our robots thus reducing material cost for large scale robots also fast movement speed.

**Monkhood Living Solutions Pvt. Ltd.**  
U74999DL2019PTC354036

The company's founders have been living away from their parents for 10 years now, the primary problem of finding accommodation that is faced by many students around India is brokerage, which is a commission taken by local brokers to find a place for people to live in. Brokerage in India is equal to one month's rent in all cities. Secondly, people need to purchase furniture and appliances as the accommodations generally don't come with all that they need (if it does they charge you 2 times the rent). Moreover, people don't get reliable and trustworthy domestic help as well, which include cooks, maids. And during their tenure, people often struggle on finding good emergency services too, this includes services like electricians, plumbers. The company's vision is to make a complete living solution for Students and young professionals.

**Hash Brown Ventures Pvt. Ltd.**  
U15134DL2022PTC399251

Refoveo is a food and beverage venture focused on targeting health enthusiasts, and the young population by offering them healthy food and beverages specially curated by dieticians and nutritionists.

**Innovation Scripts Pvt. Ltd.**  
U72900DL2020PTC367743

Innovative Scripts Private Limited, Working on the Area of Blockchain technology. Building Cryptographic Document Verification Portal based on the blockchain technology.

**Echiofy Private Limited**  
U72900DL2022PTC395579

Echiofy is basically an Advanced and AI inclined influencer marketing company. We basically deal for both influencers and companies. Our product basically full fill all the needs of an influencer. We bridge the gap between talent and companies. We are solving monetization and content problems for influencers and time and resource consuming influencer marketing problem for companies. We help influencers and companies to be a brand. Echio, a sophisticated and automated influencer marketing platform that will serve as a one-stop, all-inclusive solution for influencer and business needs.

**Selectricgoev Solution Pvt. Ltd.**  
U72200DL2022PTC395976

SelectricGo is a one stop solution for all EV owners where all services related to an EV charging station will be provided on a single platform.

**Cattleguru Pvt. Ltd.**  
**U01100HR2022PTC103327**

Cattle GURU is a tech-enabled platform for more than 90 Million dairy farmers of India which provides best quality cattle feed right at the doorstep of dairy farmers. We are helping dairy farmers earn more money from dairy farming and make their dairy business more efficient, profitable and convenient.

**Offset Global Technologies Pvt. Ltd.**  
**U74999DL2021PTC386794**

Offset-Go aims to create a sustainable ecosystem for India's transition to a Net-zero country without compromising on other development aspirations of the country.

**Polowings Healthtech Private Limited**  
**U72900JH2021PTC017101**

Walnut are building a platform that uses the technology of a social media, but reshapes and carves out the good part of it and prompts users to engage on their daily health updates. We are building communities that is lead by health professionals and influencers who understand the importance of health and well being. They are leading by example, influencing & motivating the members to actually work on improving their health conditions. They are spreading health tips and information with accuracy to the best of their knowledge. The app currently has a personal feed where users connect with their close circle friends and family members and share daily health updates to keep people engaged and updated who care about you and motivate you. The communities have a rather informative feed and content there is much more engaging and useful for the audience. We are also introducing polls and QnA shortly so that our users can engage among themselves that makes them informed, up to date, motivated and in the right direction towards a healthy lifestyle.

**Myekigai Profound Pvt. Ltd.**  
**U60300DL2022PTC405793**

MYeKIGAI is a PaaS that is integrating the MCB (Mobility, Charging & Battery-as-a-Service) and developing the holistic EV framework under one umbrella. Our Asset Management System (AMS) is a comprehensive system consisting of three components:

the Vehicle Management System (VMS), the Charging Management System (CMS), and the Battery Management System (BSMS). Each component is an IoT device that enables automated guidance and real-time data transmission to the cloud.

**Mechphy AWE Robotics Pvt.  
Ltd.U72200DL2022OPC404981**

We are developing innovative solutions with wide ranging applications in Civilian and Defense sector.

**Ongoing projects -**

1. Infantry Combat Simulator System - a Force on Force combat training simulation for military training
2. Unmanned Amphibious Vehicle - Remotely Operates Unmanned Ground Vehicle with ability to operate on ground and on water bodies

**Quickreel Pvt. Ltd.  
U92490UP2022PTC174547U72200D**

QuickReel is an easy-to-use, AI powered platform to repurpose your long form content into formats suitable for Tiktok, Reels and YouTube Shorts and automatically edit them with AI.

**Ezinore Pvt. Ltd.  
U31100DL2022PTC403922**

Ezinore is a clean tech startup dedicated to revolutionizing energy management for both residential and commercial users. Our flagship product, Sparko, is an AI-driven energy control system that optimizes energy distribution and monitoring through real-time data analysis, renewable energy integration, and efficient storage. With a focus on sustainability, cost savings, and empowering users, we aim to provide a holistic solution for a greener and more energy-efficient future.

**Vitalth Forgers Pvt. Ltd.  
U31900DL2022PTC397833**

Our diagnostic device stands exclusively for household based diagnosis i.e gripping system of the device is exclusively designed with anthropometry data study to make the device ergonomically fit for the target user base and placing of elements make the device intuitive for the user, also this device stands for robustness with compact portability factors. This device would measure Spo2, Body Temperature, Pulse rate, ECG, Blood Pressure and Respiratory rate. The mentioned physiological parameters would provide great insights into the user's health conditions as this data could be shared through the associated app to any doctor only with user's consent. This ecosystem would contribute to the Digital Health ecosystem of India. Our app would be supported by UHI (Unified Health Interface) APIs backed by National Health Authority of India (NHA).

Krayadotshop Pvt. Ltd.  
U62099BR2023PTC06421

Kraya is a social video shopping platform that lets you shop in video and purchase in just a few seconds. Our app makes it easy for social sellers to create and manage their online.

Freelance Mantra Pvt. Ltd.  
U72900DL2022PTC407665

I don't have any information on the services provided by Freelance Mantra Private Limited. However, based on the company's primary business activity, which is in the field of computer and related activities. It's possible that they offer services related to software development, IT consulting, or other computer-related services.

Mazout Electric Pvt. Ltd.  
U34300DL2022PTC401754

Indigenizing drive train electronics for EVs in India, with a focus on all two-wheeler form factors, iCommuteX1 integrates drivetrain electronics with a common software stack and a secure operating system, enabling the development of applications on top of it.

Dronearch Systems and Technologies Pvt. Ltd.  
U30303DL2023PTC412860

House Technologies is a pioneering startup dedicated to reshaping the drone industry through cutting-edge innovation. Our focus lies in the development of miniaturized nano drones, which represent a groundbreaking leap in aerial technology. These compact drones are equipped with advanced sensors and communication tools, enabling precise and versatile applications across various sectors, from agriculture to urban surveillance and disaster response. By introducing these highly agile and cost-effective nano drones, House Technologies is committed to revolutionizing the drone landscape and making advanced aerial solutions accessible to a broader audience.

Solarverse Pvt. Ltd.  
U74999UP2022PTC164702

Currently the renewable sector specifically the solar industry have been very disorganized & being controlled by big Industry/govt.on a very big scale and there is no focus towards small consumers who generally opt for 2-25kwh of plants, whom market size is quite big in terms of the number of household in this country and the main problems they face in starting is less trust b/w installer and consumer and very hectic process have been involved to get a solar plant commissioned at your home, What we are offering to do is to organized the whole sector by digitalizing them so that for a normal consumer can easily opt solar and go for better sustainable energy consumptions, and those who have already opted for this can maintain their plant better. The broader overview of our Startup idea has 3 major parts, where, customer can visit the app get the idea of his solar requirement and choose the installer as per his views Existing solar customers can opt for maintenance related services as per their availability and getting the status of their plant over the app on every visit and last, provide a platform for vendors to get highly qualified sales customers with the lowest customer acquisition costs and reduce their additional work in terms of maintenance services.aerial solutions accessible to a broader audience.

VikretagPrivate Limited  
U72900DL2021PTC385939

VikretaG is a technology-driven marketplace for hyper-local markets.it is started in 2021 with the aim to create space for itself in the Hyperlocal Services Market that Will Reach US\$ 4,681.3 Million by 2030, at a CAGR of 15.8%. VikretaG enters the market with AI that enables the local vendor to access the power of their own data. It uses AI and Data science to perform predictive modeling and helps local vendors to manage their sales and marketing using the power of their own data. It helps in managing the supply chain and inventory of local shop owners based on their forecasted future sales.

Deziwebapp Systems Pvt. Ltd.  
U72900DL2022PTC407759

To provide Consultancy and Services in Website/App using new and emerging technologies to other companies through research and development.

Mathsloyal Pvt. Ltd.  
U80904DL2023PTC409802

MATHSLOYAL is an online doubt-solving and instant tutoring platform, that connects students to the tutors of their respective competitive exams and subjects through video call sessions. It also provides freedom to pay for just a single question and connect to IITians and NITians.

**Zoid Technologies Pvt. Ltd.**  
U72900DL2022PTC394635

Zoid is a high-tech R&D startup devoted towards developing cutting-edge technologies in the defence sector. Zoid have full-fledged technical departments in the field of AI, Signal Processing and Software, headed by professors of IIT Delhi and Delhi Technological University (Formerly DCE). Our core team members are from team UAS-DTU who started their journey in 2009, since then they have partnered with multiple tech giants like Lockheed Martin, ONGC, Tata advanced systems to develop and deploy next generation technologies.

**Grotesk Fintech Pvt. Ltd.**  
U72900KA2023PTC170558

A finance app that enables Gen Z college students to save, invest as well as create a budget and rewards those who stick to it.

**Transition Mobility Pvt. Ltd.**  
U45102UP2023PTC184055

GenO2 aims to build a combination of a Photobioreactor and an Air purifier which not only aims to reduce air pollutants (such as PM2.5, PM10, Sulphur Dioxide, etc) but also improve the oxygen level in the room by using Algae that performs photosynthesis to change atmospheric CO2 into oxygen.

## Achievements:

- Incubated startup Quickreel secured the second runner-up position at the EO GSEA Finals 2023 in New Delhi.
- Saksham, founder of Mechphy AWE Robotics, awarded Best Innovation for 'Combat Simulator for Infantry Training' at the Yukti Innovation Challenge.
- Incubated startup, Ezinore Private Limited, aced a 9-weeks program with Nexus, the USA embassy, and ACIR.
- Ministry of Commerce and Industry approved grant of ₹4 Cr. to DTU IIF under Startup India Seed Fund Scheme. 22 startups selected under SISFS project and ₹1.28 Cr. disbursed to 9 startups under this project
- Startup company MAGNEUM TECHNOLOGY PRIVATE LIMITED generated total revenue ₹11 Cr.
- Vitalth Forgers Pvt Ltd received Design patent for its unique design.
- Voltrider Pvt Ltd is a lead supplier of Mission Shakti Programme of Govt of Orissa.
- Department of Science and Technology approved grant of ₹5 Cr. to DTU IIF under NIDHI I-TBI Project.

## 5.2 Human Resource Development Centre (HRDC)

In consonance with the National Policy on Education (NPE), 1986 of University Grants Commission, Delhi Technological University established Human Resource Development Centre under section 7(13) of the Delhi Technological University Act, 2009 with effect from 1<sup>st</sup> January, 2018.

HRDC is focused to the crucial development of quality ensured delivery of education to continuous knowledge up-gradation, capacity building and motivation of teachers for accepting challenges arising from new research and advancement in technology

and recent trends of breaking barriers of subject related to science and technology.

At present there are 66 Human Resource Development Centre (HRDC) established by UGC in different universities over a period since 1986.

### Organization Structure:

**Prof. S. Anbu Kumar**, Director HRDC

**Dr. Vinod Singh**, Associate HRDC

**Dr. Bharti Singh**, Coordinator

### Types of Programs:

#### PROGRAMS

##### Orientation Programs

Every new faculty member in higher education is required to undergo a four-week Orientation/First level Program, focused on some broad area of knowledge spanning a few allied disciplines with minimum of 24 working days (excluding Sundays) and 144 contact hours (six hours a day).

##### Refresher Courses

These are mainly focused for those faculty members who have already undergone through the Orientation/First Level Program in an identified broad area with minimum of 18 working days (excluding Sundays) and 108 contact hours (six hours a day).

##### Workshops

These are organized for shorter duration of one week (6 working days, 36 contact hours) and cover mainly for capacity building of academics, administrators, and other stakeholders.

##### Short-Term Course

3-6 days duration especially on research methodology and specialized themes of interest.

## Trainings/Programmes organised:

Event Details	Mode	Date	Organised by
Teachers Day Lecture “UPCYCLING BIOMASS WASTE FOR ELECTROCHEMICAL ENERGY STORAGE”	Online	8 <sup>th</sup> September 2022	HRDC-DTU
A national Education Day Webinar	Online	11 <sup>th</sup> November, 2022	HRDC-DTU
A Workshop on IPR awareness	Online	30 <sup>th</sup> November, 2022	HRDC-DTU
One Day National Seminar on “National Science Day 2023”	Offline	28 <sup>th</sup> February 2023	HRDC-DTU, in association with IIC-DTU and Department of Applied Physics
World Entrepreneurs Day-2023	Offline	23 <sup>rd</sup> August 2023	HRDC-DTU

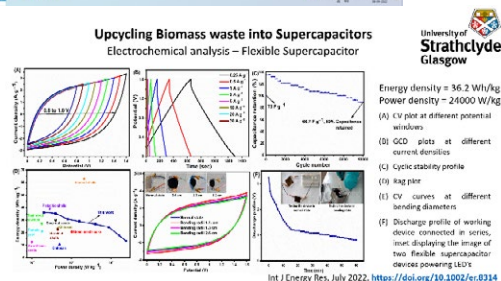
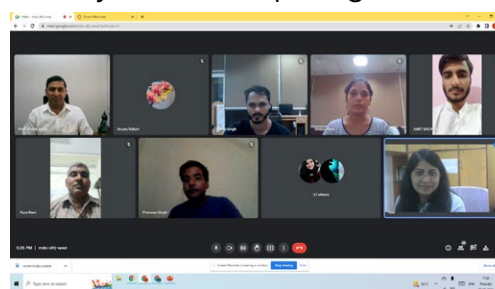
## Brief Report of Activities organised by HRDC-DTU:

### International Webinar on "Upcycling Biomass Waste for Electrochemical Energy Storage"

**Resource Person:** Dr. Aruna Ivaturi, Chancellor Fellow, EPSRC fellow, Senior Lecturer, Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, United Kingdom.

An International Webinar on “Upcycling Biomass Waste for Electrochemical Energy Storage” was organized by the HRDC, DTU on 8<sup>th</sup> September, 2022. The objective of the international webinar was to provide detailed knowledge to the undergrads of the institute on how we can Upcycle Biomass Waste for Electrochemical Energy through different scientific methods. The welcome note was given by Dr. Bharti Singh, Coordinator, HRDC-DTU. The entire programme was organized by Prof. S. Anbu Kumar (Director, HRDC-DTU), Prof. Vinod Singh (Associate Director, HRDC-DTU) and Dr. Bharti Singh (Coordinator, HRDC-DTU). Around 150+ undergrads registered for this international webinar. Dr. Aruna Ivaturi Mam highlighted the fact that more than 80% of commercial supercapacitors

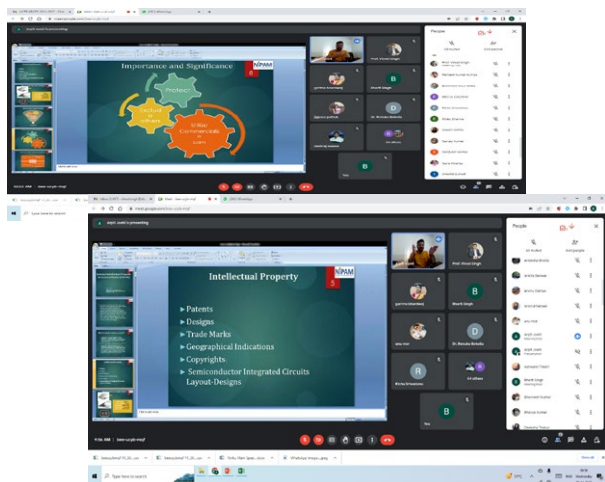
utilize chemically synthesized carbon nanomaterials which are expensive and necessitate non-renewable resources. Employing renewable, environment friendly and naturally available biomass feedstock as precursor for producing carbon materials is a low-cost and sustainable way for designing the electrodes of supercapacitors. She also stated that flexible supercapacitors when fabricated using sono exfoliated graphene-like activated carbon coated stainless steel mesh electrodes and biopolymer gel electrolyte exhibits an outstanding energy density of 38.7 Wh per Kg and power density of 198.4 W per Kg.



### A Workshop on IPR awareness, 30<sup>th</sup> November 2022

**Resource Person:** Sh. Arpit Joshi Ji, Patent Officer, DPIIT, Ministry of Commerce & Industry, New Delhi.

HRDC, DTU in association with the NIPAM organised the workshop on “Intellectual Property Awareness”. The objective of the event was to sensitize the audience about the need of patent filing and procedure also. Mr. Arpit emphasized the importance of the role of a strong IPR ecosystem in the advancement of a country and how IPR is an important tool for the IP holder to become a “Job giver rather than job seeker”. He also shared the government mission for spreading awareness on intellectual property so that a more conducive environment of innovation and creativity is established in the country. The talk was attended by more than 100 student participants through online mode.



### National Science Day Celebration, 28<sup>th</sup> February, 2023

**Chief Guest:** Sh. Shyam Lal Poonia, IAS, Deputy Secretary Ministry of Housing and Urban Affairs, GOI.

**Resource Persons:** Prof. I. M Kapahi, Former Member UGC and Prof. Pratibha Jolly, Former Principal Miranda House.

HRDC, DTU in association with the Institute Innovation Council-DTU and Department of Applied Physics organised the celebration of “National Science Day” on 28<sup>th</sup> February 2023. The objective of the event was to acknowledge entrepreneurship and individuals becoming entrepreneurs across the world and therefore such activities organised at the institute level will benefit and motivate young minds to join hands with existing entrepreneurs and government agencies to become future leader in various activities.

Sh. Shyam Lal Poonia ji motivated the student to understand the importance of science in day-to-day life and also highlighted the importance of science education in India. The welcome note was given by Prof. S Anbu Kumar, Director, HRDC-DTU, followed by address Prof. A S Rao, HOD Applied Physics, Prof. Vinod Singh, Associate Director, HRDC, Prof. Madhusudhan Singh and Prof. I. M. Kapahi, Former Member, UGC. All of them shared briefly about the role of scientist for the betterment of life. The entire programme was coordinated by Dr. Bharti Singh (Coordinator, HRDC-DTU). Around 100+ undergrads, postgraduates and Ph. D student registered for this event.

The titles of the talks were, “Science and Scientific Spirit is the Core of Human Well Being” and “Innovation, Enterprise, and Education weaving Paradigms for world of work. Both the talks were appreciated by the faculty and student participants with encouraging participation of more than 100. After the talks, the National Science Quiz was organised and later the winners were felicitated by respected Faculty members.





### Celebration of “World Entrepreneurs Day”, 23<sup>rd</sup> August, 2023

**Chief Guest:** Prof. Ashok K Nagawat, Hon'ble Vice Chancellor Delhi Skill and Entrepreneurship University, Delhi.

**Resource Persons:** Dr. Nikhil Kant, Dy Director, Regulation Bureau, AICTE and Dr Ashutosh Pastor, Senior Manager & Head, Incubation FIIT, IIT Delhi.

HRDC, DTU in association with the Institute Innovation Council-DTU organised the celebration of “World Entrepreneurs Day” on 21<sup>st</sup> August 2023. The objective of the event was to acknowledge entrepreneurship and individuals becoming entrepreneurs across the world and therefore such activities organised at the institute level will benefit and motivate young minds to join hands with existing entrepreneurs and government agencies to become future leader in various activities.

Prof. Nagawat encourages student for becoming the future entrepreneurs and quoted that there is no lower and upper limit for becoming the same. He also highlighted the importance of skill education in India. The welcome note was given by Prof. Vinod Singh, Associate Director, HRDC-DTU. The entire programme was organized by Prof. S. Anbukumar (Director, HRDC-DTU), Prof. Vinod Singh (Associate Director, HRDC-

DTU) and Dr. Bharti Singh (Coordinator, HRDC-DTU). Around 120+ undergrads, postgraduates and Ph.D. student registered for this event.

Dr. Nikhil Kant in his speech informed the participants about various initiatives of Government of India and briefed about the objective of Atmanirbhar Bharat and about the National Innovation and Startup Policy 2019. Various programmes such as Kalam Program for Intellectual Property filing, Hackathons, Ambassador Training Programme etc were also discussed. The topic of his speech was Embracing Entrepreneurship Benefits even from Failures. The second Speaker, Dr Ashutosh discussed in his speech about the role of university incubators and apprised the students about the various initiative taken at IIT Delhi to increase the in-house startup and patent filing. Both the talks were appreciated by the faculty and student participants with encouraging participation of more than 100.



### 5.3 Solar Energy Centre

Office-In-charge: **Mr. Pradeep Yadav**, (JE, Electrical Engineering)

Operation of 432 kW SPV roof top plant on resco model and 40 kW SPV plant on capex model is functioning at Delhi Technological University, Delhi. The University has installed 432 kW of Solar Photovoltaic Rooftop Plant on resco model by M/S Hero Future Energies on the terrace of the various departments. This has been further added by 40 kW SPV plant by M/S Photon Energy Systems Ltd. capex model on the rooftop of administrative building. In total, 472 kW SPV plant is functional in DTU. Both the plants have been working very satisfactorily. All 472 kW solar panels have been installed in science block (108 kWp, having 1 Electronic solar metre), Mechanical block (150 kWp, having 2 Electronic solar metres) and Electronic block (174 kWp, having 3 Electronic solar metres).

It has been observed that the maximum solar electricity output of all the 432 kW solar panel from all the 6 electronic meters is found as 3,55,157 kWh in the month of April, 2023. This is on an average 3.81 kWh per day production from 1 kW panel. A 40 kWp system has been also commissioned in the month of June, 2015 and functioning properly. It has two inverters of 20 kW each connected to the above system. The control room has been built on the ground floor at the back of the building. The DC power so generated by the SPV plant is converted into AC power by the SSE model inverters and feed to the 3 phase DTU grid.

The above two systems are grid connected to the TATA power Delhi Distribution Limited. (TPDDL). Hero Future Energies has provided the solar metre readings for the last one year from August 2022 to July, 2023 as given in the table below.

Month	Reading kWh (units)	Units Charges in	Bill Amount
Aug-22	50051	5.8	290296
Sep-22	43326	5.8	251291
Oct-22	45038	5.8	261220
Nov-22	41961	5.8	243374
Dec-22	41943	5.8	243269
Jan-23	34862	5.8	202200
Feb-23	51596	5.8	299257
Mar-23	53776	5.8	311901
Apr-23	59942	5.8	347664
May-23	57506	5.8	333535
Jun-23	51175	5.8	296815
Jul-23	38985	5.8	226113
<b>Total</b>			<b>3306934</b>



## 5.4 Kitchen Waste Plant

Office-In-Charge: **Prof. J. P. Kesri**, (Mechanical Engineering)

Delhi Technological University in collaboration with Bhabha Atomic Research Centre (BARC) has set-up 500 kg per day kitchen waste biogas plant behind the main canteen of DTU campus. This technology is developed by Dr. Sharad Kale from Babha Atomic Research Centre Mumbai. This is based on Nisargruna technology. It is an environment friendly technology, which delivers two valuable products i.e., methane and organic manure. The food waste from the canteen is grinded first in mixture grinder installed on the inlet platform, which is mixed with equal amount of water and it is fed into inlet of the installed biogas plant. This plant was installed and commissioned in April, 2014. Initially, the system worked very nicely with moderate and during summer seasons temperatures but during winter seasons the performance reduces. The methane gas so generated by this plant is used for cooking in the main canteen.

This technology is very useful and is suggested to be replicated in Azadpur, and Okhla sabzi mandis and other Municipal Corporations bodies to process their vegetable waste as most of biodegradable waste can be utilized as raw material for the biomethanisation plant. The organic manures are valuable product for horticulture and farming. Nevertheless, whole technology creates various types of opportunities for different prospects. Recently another Biogas has plant been set up in DTU campus near to DTU library which is used for the generation of electricity. Waste segregation at the source is another major issue which needs proper attention. Biogas production is faster because of combination of aerobic and anaerobic digestion technology. Electricity generation from biogas is also one of the potential benefits. This technology development will

save environment to greater extent. It will also provide benefits in the form of Biogas, reduction in Green house Gas emission, health hazard benefits, social benefits and benefits in terms of financial investments. Research is undertaken to convert methane in to hydrogen under high temperature and reaction with steam. Many undergraduate students are working on this project on conversion of methane in to hydrogen production as minor and major projects in 7<sup>th</sup> and 8<sup>th</sup> semesters as well as innovative projects in 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> semesters. In future there will be scope for extra benefits like subsidies and benefits like carbon credits, which will give high rate of return on total investment. Entrepreneurs will excel in their ventures by selling services and products related Technology. DTU is in contact with some other organizations to provide consultancies in this area. The DTU students have already produced some research papers. Few students are doing their B. Tech., M. Tech and Ph.D. projects. Presently some students have taken up this project during their summer internship.



## 5.5 Centre for Advanced Studies and Research in Automotive Engineering



Office-In-Charge: **Prof. Naveen Kumar** (Mechanical Engg.)

The Centre for Advanced Studies and Research in Automotive Engineering (CASRAE) was founded in 2003 in the erstwhile Delhi College of Engineering (now Delhi Technological University) with the objectives of developing a variety of renewable transportation fuels and for improving the existing engine technologies to reduce the dependence on imported crude petroleum and minimize harmful exhaust emissions for a cleaner environment. The center has seen radical growth in the last 20 years, and it is considered one of the front-runner research centers in India and abroad. The faculty, along with the students, has published research papers in many International Journals and has also attended international conferences around the globe. The faculty and students are attending various Conferences & Symposium organized by American Society of Mechanical Engineers (ASME), Society of Automotive Engineers (SAE) and many other professional Societies, and publishing papers in Elsevier, Wiley, Springer, Taylor & Francis, SAE, IMechE, and ASME Journals.



The focus areas of research at the Centre include; renewable fuels for transportation and off-road applications, Improvement,

and enhancements in the design of Compression Ignition and Spark Ignition Engines, Development of Micro-Turbojet Engines, Tribological Studies, studies of various design features of Aircraft along with study of aerodynamic Characteristics of various airfoils, Hybrid Vehicles, study of spray injection and development of innovative for mitigation of Climate-Change. The study on next-generation fuels such as renewable diesel/jet fuel, LNG, Hydrogen, etc. is also under research.

The Students' Research Group have working on the conversion of agro-residue (parali) into value-added products and fuel under the direction of worthy Chief Secretary of Delhi.

### Activities organized during August 2022 – July 2023:

#### Interactive Session on “Engineering Education Perspectives” (August 3<sup>rd</sup>, 2022)

**Resource Persons:** Professor Autar Kaw, University of South Florida, Tampa, USA (adjudged 2012 US Professor of the Year)

On August 3<sup>rd</sup>, 2022; the Centre for Advanced Studies & Research in Automotive Engineering, and IMechE DTU Chapter organized an Interactive Session on “**Engineering Education Perspectives**”. Professor Kaw gave the audience a deep insight into the future of Education, which is closely aligned with the National Education Policy 2020. His insight of the future perspectives was the hybrid mode and providing education by adapting the

principles of Diversity, Equity, Inclusion and communication for a country like India. The session included an interactive Q&A session as well where Professor Kaw clarified very relevant queries of faculty/students about knowledge of engineering domains and adaptive learning. The participants had an enlightening experience which expanded their horizons.



### Blood Donation Camp - (August 4<sup>th</sup>, 2022)

**Resource Persons:** Professor Autar Kaw, University of South Florida, Tampa, USA (adjudged 2012 US Professor of the Year)

A **Blood Donation Camp** was organized by the students of DTU working at CASRAE and IMechE DTU Chapter in association with the Indian Red Cross Society on Thursday; August 4<sup>th</sup>, 2022, on DTU Campus. The camp was a huge success. Such a camp was organized exactly after a three years gap due to pandemic.



The event was also aimed to raise awareness about the importance of regular blood donations and the positive impact it can have on saving lives. It served as a platform for education and empowerment, encouraging individuals to become regular blood donors and fostering a culture of compassion and generosity within the community. The students were inspired

and motivated to continue their efforts to address the ongoing blood shortage in our society. Such an event serves as a catalyst for more such initiatives in the future, bringing together individuals from all walks of life to contribute towards saving lives and making a positive impact on the community.

### World Biofuel Day - (August 10<sup>th</sup>, 2022)

The CASRAE-DTU & IMechE, DTU Chapter organized a General Awareness and Interactive Session on the importance of biofuels in developing economies on 'World Biofuel Day' on August 10<sup>th</sup>, 2022. This significant day holds great importance as it commemorates the groundbreaking achievement of Sir Rudolf Diesel in 1893 when he successfully operated the first Single-Cylinder Diesel Engine using Groundnut Oil as fuel. This historic event serves as a constant reminder to researchers and scientists to continue their efforts in making biofuels more accessible and widely adopted, particularly in sectors facing a severe shortage of clean energy sources.



At DTU, the biofuels research group is deeply committed to leveraging cutting-edge research in this emerging field. Their focus lies in developing and promoting the use of next-gen biofuels such as Biomethanol, Bioethanol, Biobutanol, and many others. These sustainable alternatives have the potential to revolutionize various sectors by providing a cleaner and more environmentally friendly energy source.

The chosen theme for the event, 'Biofuel for Sustainability and Rural Income,' holds immense relevance, especially for the Sugar Industry. By converting waste products into Bioethanol, we can contribute to the sustainability of this industry while simultaneously generating additional income for rural communities. This innovative approach not only helps in utilizing agricultural residues effectively but also reduces the industry's carbon footprint and dependence on fossil fuels.

The General Awareness and Interactive Session provided a platform for researchers, experts, and students to exchange ideas, knowledge, and insights about biofuels and their potential applications. Through discussions, presentations, and interactive sessions, participants were able to gain a deeper understanding of the challenges and opportunities in the field of biofuels, as well as explore avenues for collaboration and future research.

### ISFT 2022 & 2<sup>nd</sup> RUSICON - (August 16<sup>th</sup> - 19<sup>th</sup>, 2022)

**Expert Talk:** Prof. Naveen Kumar, ME, DTU

**Topic:** "Next generation Transport Fuels in India: Status, Opportunities & Challenges"

Professor Naveen Kumar, Mechanical Engineering Department, DTU delivered

the invited plenary talk on **“Next generation Transport Fuels in India: Status, Opportunities & Challenges”**, at 2<sup>nd</sup> Rajamangala University of Technology Suvarnabhumi International Conference (RUSiCON), organized by Rajamangala University of Technology Suvarnabhumi, Thailand (a Government of Thailand University and ranked 4<sup>th</sup> in Thailand) from August 16<sup>th</sup> - 19<sup>th</sup>, 2022.



The talk focused on the growth of India's vehicular population post-independence, the consumption pattern of the petroleum-derived energy mix in the transportation sector, and its environmental impact on India. The necessity of next-generation transportation fuels and the mandates/targets/methodologies/technologies set for leasing a new life to the Indian Transportation Sector in a holistic manner. A few very valuable suggestions were received after the presentation, which shall be adapted to augment further the present R&D work at the University.

He also had the opportunity to meet Japanese and two South Korean Scientists with deep interest and expertise in waste recycling. The visit to different laboratories/ research facilities of RMUT, Suvarnabhumi, and Thammasat University was also undertaken during the visit of Professor Naveen Kumar to Thailand.



Following two students also presented research paper in physical/offline mode at the conference.

Abhishek Goyal, Sheel Bhadra, **Harshit Gupta** & Naveen Kumar. "Computational Analysis of Flow Characteristics and Heat Transfer Process of Flow Past an Oscillating Cylinder" (Offline Mode)

**Baibhav Kumar** & Naveen Kumar "Real Time Analysis of Material Removal Rate and Surface Roughness for Turning of AL-6061 using ANN and GA" (Offline Mode)



Following students of CASRAE also presented their research papers in online mode at 9<sup>th</sup> International Symposium on the "Fusion of Science & Technologies" and 2<sup>nd</sup> Rajamangala University of Technology Suvarnabhumi International Conference (ISFT2022 & 2<sup>nd</sup> RUSICON).

**Deepak Kumar & Naveen Kumar**

**Topic:** Scope and Opportunity of Bio Origin Jet Fuel

**Farhan Khan & R. C. Singh**

**Topic:** Some Studies on the Utilization of Ethanol in Diesel Engine as per Indian context

**Saumya Shrey & Naveen Kumar**

**Topic:** Opportunities of Retro-fitment of Diesel vehicles to Electric Vehicles in Delhi

**Subhash Dwivedi & Naveen Kumar**

**Topic:** Production of Bio-hydrogen through Microalgae: The new Challenges

**Khushbu Yadav, Naveen Kumar & Rajiv Chaudhary**

**Topic:** Natural antioxidants and their implication in biodiesel

**Vipul Saxena, Naveen Kumar & Raghavendra Gautam**

**Topic:** An Experimental Assessment of Diesel Engine Characteristics using Diesel/Argemone/Corn Biodiesel Blends

## Research Papers in Peer Reviewed Journals:

- Hansham Dewal, Naveen Kumar, Sheel Bhadra, (23<sup>rd</sup> Feb., 2023) "Performance and emission characteristics analysis of LPG-Karanja biodiesel on CI engine with optimization" Arabian Journal of Geosciences, vol 15, Impact Factor 0.406. <https://doi.org/10.1007/s12517-023-11299-z>.
- Dushyant Mishra, Naveen Kumar, Rajiv Chaudhary, (31<sup>st</sup> Jan., 2023) "Effect of orange peel oil on the performance and emission characteristics of diesel engine fueled with quaternary blends" Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, vol 45, issue 1, pages 650-660. Impact Factor 2.902 (Q2). <https://doi.org/10.1080/15567036.2023.2171510>.
- Roshan Raman, Naveen Kumar, (31<sup>st</sup> Dec., 2022) "Experimental studies to evaluate the combustion, performance and emission characteristics of acetylene fuelled CI engine" International Journal of Ambient Energy, vol 43, issue 1, pages 1546-1555, Impact Factor 3.63 (Q2). <https://doi.org/10.1080/01430750.2019.1709896>.
- Khushbu Yadav, Naveen Kumar, Rajiv Chaudhary, (22<sup>nd</sup> Dec., 2022), "ANN prediction approach analysis for performance, and emission of antioxidant treated waste cooking oil biodiesel", Journal of Environmental Science and Technology. Impact Factor- 3.519.
- Roshan Raman, Naveen Kumar, (28<sup>th</sup> Oct., 2022) "Comparative assessment of di-ethyl ether/diesel blends on the performance, and emission characteristics in acetylene dual fuel engine" International Journal of Engine Research, pages 1-16, Impact Factor 3.874. <https://doi.org/10.1177/14680874221132325>.

### SOFE - (Speak Out For Engineering) - (September 3, 2022)

IMechE DTU Chapter organized SOFE-22, Heats for DTU chapter on 3<sup>rd</sup> September, 2022 in collaboration with the **Centre for Advanced Studies & Research in Automotive Engineering (CASRAE)** looking for an opportunity to develop your presentation skills

Speak Out for Engineering is an engaging competition specifically designed to enhance the skills of verbal and visual communication in explaining technical subjects related to mechanical engineering. It provides a platform for members affiliated with the DTU chapter of IMechE (Institution of Mechanical Engineers) to showcase their talent and expertise in various engineering domains.



The participants from the DTU chapter displayed immense enthusiasm and actively participated in the competition. They confidently delivered presentations on diverse engineering topics, covering a wide range of subjects within the field. The competition served as a valuable opportunity for participants to hone their public speaking skills and effectively convey complex engineering concepts to a wider audience.

By participating in Speak Out for Engineering, the students gained exposure to the best practices of public speaking specifically tailored to engineering subjects. They learned how to present technical information concisely and compellingly, utilizing both verbal and visual communication tools effectively. This experience not only bolstered their confidence in presenting engineering topics but also contributed to their overall professional development.

The competition fostered a collaborative and inclusive environment where participants could learn from one another's presentations and exchange ideas. It provided a platform for showcasing the ingenuity and innovation present within the engineering community, promoting a culture of knowledge sharing and continuous learning.

An Online Quiz on "**Mobility in 2030: Challenges & Opportunities for Developing World Economics**" was organized by the Centre for Advanced Studies & Research in Automotive Engineering; IMechE DTU Chapter, and other renowned Institutions on Monday, September 5<sup>th</sup>, 2022, from 2.00-3.00 pm (Indian Standard Time) in online mode to commemorate the Teachers' Day.

The competition, which had two parts; MCQ based quiz and a short answer based Innovative solution to the mobility crisis, witnessed a stupendous response from the World over. First Prize: Abhishek Goyal, DTU Delhi; Second Prize: Irfan Ahmad Lone, NIT Srinagar; Third Prize Tannishtha Bag, IIST Shibpur. Cash prizes of ₹ 2,000/-, 1,500/-, and 1,000/- each were given to above prize winners.

## Innovative Solution to Mobility Crisis:

The competition was also organized on September 5<sup>th</sup>, 2022 for the students of all over India on proposing innovative solution to the mobility crisis which India and other developing economies are facing at present. First Prize: Subhash Dwivedi, DTU; Second Prize: Rakesh Mittal, NIT Srinagar; Third Prize: Himanshu Goyal, SSVPG College, Hapur, Cash prizes of ₹ 500/- each were given to above prize winners.

### Industrial Visit to AVL India - (January 20<sup>th</sup>, 2023)

On the 20<sup>th</sup> of January 2023, a group of students from Delhi Technological University (DTU) embarked on an **industrial visit to AVL India Pvt Ltd. located in Gurugram**. The visit was organized by the Centre for Advanced Studies and Research in Automotive Engineering and IMechE DTU Students' Chapter. AVL India is a prominent company specializing in automotive engineering and provides advanced solutions for research and development in the automotive industry.

The purpose of the visit was to offer DTU students a practical understanding of AVL's operations, technologies, and innovations in the automotive sector. During the visit, the students had the opportunity to explore AVL's state-of-the-art facilities, observe ongoing research projects, and interact with industry professionals.

Such industrial visits play a crucial role in bridging the gap between theoretical knowledge and real-world applications. They provide students with valuable insights into industry practices, cutting-edge technologies, and the challenges faced in the automotive engineering domain. The visit to AVL India aimed to inspire and

motivate the students by showcasing the advancements in automotive engineering and the potential career opportunities within the industry.



#### Event: Blood Donation Camp

**Organizer:** Students of Delhi Technological University in association with the Indian Red Cross Society

**Date:** February 2<sup>nd</sup>, 2023

**Aim:** To encourage students, faculty, and staff to actively participate in donating blood for a noble cause.

The event garnered an overwhelming response and proved to be a tremendous success. It was a matter of great satisfaction that such a camp was organized after a gap of three years, overcoming various challenges and obstacles. The efforts put forth by the organizing committee, volunteers, and supporters made the event a resounding achievement.





**Workshop:** Robotics & Automation: New Paradigm

**Organizer:** CASRAE (Centre for Advanced Studies and Research in Automotive Engineering) & IMechE (Institution of Mechanical Engineers), in collaboration with the Mechanical Engineering Department of Delhi Technological University

**Date:** March 22<sup>nd</sup>, 2023

The workshop featured esteemed speakers and presenters, including **Dr. Shubham Shukla**, the In Charge of the Centre for Robotics and Mechatronics at KIET Ghaziabad, and Visiting Faculty of AI ML at IIIT Pune. Dr. Shukla shared his expertise in the field of robotics and automation, providing valuable insights and knowledge to the participants



This workshop was aimed to provide participants with a comprehensive understanding of robotics and automation through a combination of lectures, practical demonstrations, and hands-on experiences. The participants had a wonderful opportunity to gain practical exposure to the technology and develop their skills in this emerging field.



A webinar on "Last Mile Delivery: New Paradigm" was presented by **Vipul Garg, Ph.D. Scholar at the University of North Texas, USA** and ex-Data Scientist at Tetra Pak, TX, USA, was a highly informative and thought-provoking session.



With his expertise in Supply Chain Analytics, Last Mile Delivery, Air Mobility, and Data Science, Vipul Garg provided valuable insights into the evolving landscape of last-mile delivery.

He discussed the challenges faced by businesses in this critical stage of the supply chain and explored innovative solutions and emerging technologies that are revolutionizing the last-mile delivery process.

Participants gained a deep understanding of the importance of efficient and sustainable last-mile delivery, and how it can significantly impact customer satisfaction, cost-effectiveness, and environmental sustainability. Overall, the webinar shed light on the new paradigm of last-mile delivery and inspired attendees to explore

novel approaches and technologies to optimize this crucial aspect of the supply chain.

### Research Excellence Award, DTU on April 6<sup>th</sup>, 2023

#### Commendable Research Award:

Rashi Koul (2 SCI Papers)  
Khushbu Yadav (1 SCI Papers)  
Kirat Singh (1 SCI Papers)



### INTERNSHIPS

Saumya Shrey (2<sup>nd</sup> Year M.Tech. Thermal Engineering Student), a talented CASRAEite was offered a paid internship at Cummins India at Pune. She did wonderful and pioneering work there and subsequently was offered a PPO there. She is presently working there. Her work at Cummins was mainly concerned with exhaustive Cummins Engine trials on biodiesel and HVO and comparing the results with baseline data.



Faran Khan (2<sup>nd</sup> Year M.Tech. Thermal Engineering Student), a yet another talented CASRAEite was offered a paid internship at Tata Motors at Pune. He did very well during the intership and he was also offered a PPO there. He is presently working there. Her work at Tata Motors was mainly concerned with ethanol utilization.

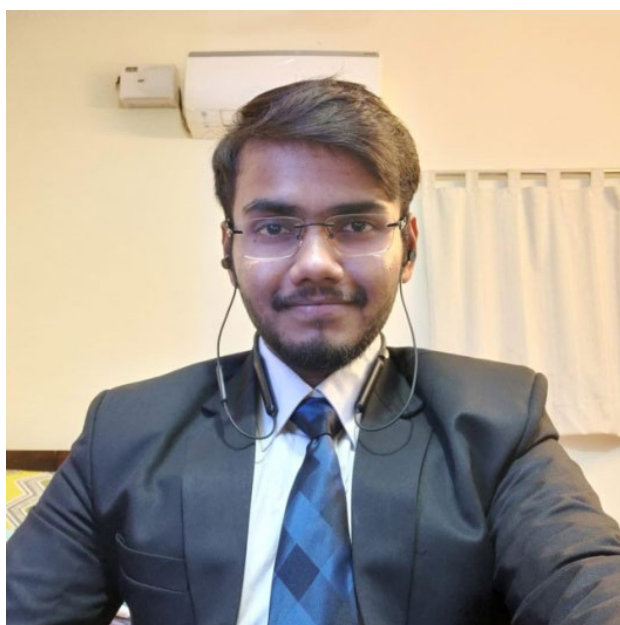


### ADMISSION OVERSEAS

Devang Nath has secured admission in Master's program of University of Michigan.

Sheel Bhadra has secured admission in Master's program of Mechanical Engineering at University of Calgary, Canada with full scholarship.





### Ph.D. AWARDED

#### Ms. Rashi Koul

Awarded Ph.D. on her research work "Performance, Emission and Combustion Studies of a Renewable Diesel in a Compression Ignition Engine" on February 10<sup>th</sup>, 2023

Mr. Kirat Singh (2K16/PhD/ME/02) completed pre-Ph.D. seminar on his research work "Some Investigations on Use of Renewable Fuel in Compression Ignition Engine" on Wednesday, June 7<sup>th</sup>, 2023.

## 5.6 TIFAC-CORE in Fiber Optics and Optical Communication

TIFAC-CORE in the area of Fiber Optics and Optical Communication has been established in Delhi Technological University (Delhi College of Engineering), Delhi for which an agreement was signed between TIFAC & DCE on 6<sup>th</sup> July, 2004. The activities of this TIFAC-CORE at DCE are supported by TIFAC/DST, Govt. of NCT of Delhi and partners from industries under Mission REACH Program, Technology Vision-2020, Govt. of India.

### Organization Structure:

**Prof. R. K. Sinha** (Applied Physics), Chief Coordinator

**Dr. Yogita Kalra** (Applied Physics), Coordinator

### VISION

To establish a world class knowledge centre providing education in the areas of Fiber Optics and Optical Communication System that promotes research and development leading to innovative applications of Fiber Optics, fostering institute-industry linkages and entrepreneurial culture encompassing all aspects of interaction of light and matter for the betterment of the society.

### Research Progress:

#### Research Papers in Journals

- J. Chauhan, Y. Kalra, R. K. Sinha, Chalcogenide glass-based Low Loss Graded Index Photonic Crystal Fiber for non-linear applications in the Mid-IR regime, *Results Opt.* 12 (2023) 100431. <https://doi.org/10.1016/j.rio.2023.100431>.
- Ankit, K. Kishor, R. K. Sinha, Design and analysis of wavelength tunable metamaterial reflector, *Results Opt.* 10 (2023) 100366. <https://doi.org/10.1016/j.rio.2023.100366>.
- R. Ranga, Y. Kalra, K. Kishor, N. Shankhwar, Ultra-narrow band perfect absorber for sensing applications in the visible region, *Eur. Phys. J. D.* 77 (2023) 42.

<https://doi.org/10.1140/epjd/s10053-023-00615-7>.

#### Research Papers in International and National conferences:

- Ankit, K. Kishor, R. K. Sinha, Design and analysis of multiband metamaterial in microwave regime, in: K. Staliūnas, V. Kuzmiak, T. Stefaniuk (Eds.), *Metamaterials XIV*, SPIE, 2023: p. 33. <https://doi.org/10.1117/12.2664671>.
- V. Sharma, Y. Kalra, R. K. Sinha, Dielectric metalens with reduced meta-atom aspect ratio and high focusing efficiency, in: K. Staliūnas, V. Kuzmiak, T. Stefaniuk (Eds.), *Metamaterials XIV*, SPIE, 2023: p. 39. <https://doi.org/10.1117/12.2665410>.
- S. Dash, V. Mathur, N. Pandey, R. K. Sinha, Terahertz Wave Propagation Characteristics in Graded Teflon Based Solid-Core Photonic Crystal Fibre, *J. Phys. Conf. Ser.* 2426 (2023) 012021. <https://doi.org/10.1088/1742-6596/2426/1/012021>.
- N. Kumari, P. Yadav, Ankush, R. K. Sinha, Study of Non-linear Optical Properties of an ENZ Composite Metamaterial, *J. Phys. Conf. Ser.* 2426 (2023) 012006. <https://doi.org/10.1088/1742-6596/2426/1/012006>.
- Ankit, K. Kishor, R. K. Sinha, ENZ metamaterial for X-band in the microwave regime, in: *Front. Opt. + Laser Sci.* 2022 (FIO, LS), Optica Publishing Group, Washington, D.C., 2022: p. JT4B.60. <https://doi.org/10.1364/FIO.2022.JT4B.60>.
- A. Dewan, Y. Kalra, R. K. Sinha, Epsilon near zero metamaterial-based Optical Filter, in: *Front. Opt. + Laser Sci.* 2022 (FIO, LS), Optica Publishing Group, Washington, D.C., 2022: p. JT5A.81. <https://doi.org/10.1364/FIO.2022.JT5A.81>.
- J. Chauhan, Y. Kalra, R. K. Sinha, Single-ring controlled As<sub>2</sub>Se<sub>3</sub> Photonic Crystal Fiber for Dispersion compensation in Mid-Infrared Region, in: *Front. Opt. + Laser Sci.* 2022 (FIO, LS), Optica Publishing Group, Washington, D.C., 2022: p. JW4B.31. <https://doi.org/10.1364/FIO.2022.JW4B.31>.

## 5.7 Centre for Industrial Design & Ergonomics (CIDE)

Centre for Industrial Design & Ergonomics, DTU established on 22<sup>nd</sup> March, 2021 is recognized for organizing expert lectures, workshops, and industry-institute interactions. The center invites B.Des./M.Des/M.Tech/MBA students for internships during summer and winter holidays. CIDE continues to grow with experienced faculty and aspiring designers, regularly conducting industry-institution interactions. Many successful students are making significant contributions in both industries and academia.

### Organization Structure:

Name of Faculty	Designation
Prof. Ranganath M. Singari	Chairperson
Prof. Lalit Kumar Das Prof. G V Sreekumar	Advisory Members
Dr. Ravindra Singh Mr. Neeraj Rathee Mr. ParthaPratim Das Ms. Taruna Singh Mr. Varun Singh	Faculty Coordinators

### COORDINATORS (RESEARCH)

Mr. Mohd Tayyab	Ms Awani
Ms. Anuradha Raizada	Mr. Utkarsh Chaudhari
Mr. Shahid Ahmad	Mr. MerajAlam Idrisi
Ms. Monica Singh	Ms .Simran Vats
Ms Shradha	

CIDE DTU organizes industry visits and training programs to instil a design culture among students and faculty. CAPIER, renowned for organizing various programs and expert lectures, initiated the International Conference on Design and Materials (ICDM). The first conference, ICDM-2022, held in January, 2022 was a great success, followed by ICDM 2023 at NIT Delhi in July, 2023.

### VISION

To achieve global recognition for its commitment to serving humanity, industry, and society, the Centre aspires to be a beacon of excellence in the field of Design. This involves promoting human well-being, cultivating responsibility towards society and the environment, shaping the next generation of design professionals, fostering innovation, and creating an empathetic ecosystem for societal well-being.

### MISSION

- **Educational Leadership:** Prepare the next generation of design professionals to enhance the human experience in various environments through the pursuit of design excellence.
- **Innovative Platform:** Create a dynamic hub for the convergence of ideas and expertise in frugal and sustainable design, fostering creative collaboration.
- **Research Advancement:** Drive research in advanced production techniques, contributing to the continuous evolution of cutting-edge design practices.
- **Empathetic Ecosystem:** Develop and sustain an empathetic environment catering to diverse needs and aspirations, enhancing overall societal well-being.
- **Cultural Transformation:** Foster a culture that encourages excellence, embraces open-mindedness, and cultivates disruptive thinking for innovative and impactful solutions.

## 5.8 Intellectual Property Right (IPR) Cell

Intellectual Property Right Cell was constituted on 22<sup>nd</sup> June, 2017 and reconstituted on 15<sup>th</sup> February, 2018 under IRD. At present, it has 01 Coordinator and 01 Co-coordinator detailed as under:-

### Organization Structure:

**Prof. Pragati Kumar**  
(Dean, IRD)

**Prof. Roli Purwar** (Associate  
Dean & Coordinator IPR Cell)

**Dr. Rajeev Kumar**  
(Co-Coordinator, IPR Cell)

### List of Published Patents/FER Submitted in year 2022-23:

Assignee(s) Name (Institute Affiliations) at time of Applications): DTU, Delhi

S. No.	Inventor/s Name	Title of the Patent	Patent Published Date
1.	Prof. Mini Sreejeth	Motor Controller for Light Mobility Vehicles in India	16 <sup>th</sup> September, 2022
2	Prof. Rahul Katarya	Precision Agriculture Rover for Plant Disease Detection and Control	17 <sup>th</sup> June, 2022
3	Prof. Rahul Katarya	An Autonomously Operating Surface Water Robot and Method Thereof	04 <sup>th</sup> January, 2022
4	Prof. Rahul Katarya	Intelligent Autonomous Rover for Plant Disease Detection and Method Thereof	10 <sup>th</sup> July, 2022
5	Prof. Poornima Mittal, Ms. Bhawna Rawat	Reconfigurable Static Random-Access Memory (SRAM) and Method Thereof	28 <sup>th</sup> January, 2022
6	Prof. Bharat Bhushan, Ms. Rupam Singh	Automated Status Monitoring and Reconfiguring Control System for Unmanned Helicopters	24 <sup>th</sup> June, 2022
7	Prof. Dinesh Kumar Vishwakarma	Intelligent Monitoring of Crops for Effective Productivity	24 <sup>th</sup> February, 2023

### List of Granted Patent in year 2022-23:

S. No.	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Granted (DD/MM/YYYY)
1	Prof. Kapil Sharma, Sachin Kumar Agrawal	Beam Forming Method for A Transmitting Antenna and A Device Thereof	1. Samsung Electronics Co., Ltd. 2. Delhi Technological University	21 <sup>st</sup> October, 2022
2	Prof. Kapil Sharma, Sachin Kumar Agrawal	Optimizing Power Transfer in A Wireless Power Transmitter	1. Samsung Electronics Co., Ltd. 2. Delhi Technological University	22 <sup>nd</sup> December, 2023

3	Prof. Gurjit Kaur, Ms. Garima Singh	A Multicore Fiber Cable and Its Manufacturing Process Thereof	Delhi Technological University	22 <sup>nd</sup> December, 2023
4	Dr. Mohan Singh Mehata	Probe for The Detection of Ferric Iron in Aqueous Environments and Method Thereof	Delhi Technological University	15 <sup>th</sup> December, 2023
5	Prof. Om Prakash Verma, Nirmal Pandey, Sunil Rathour, Amioy Kumar	Power Optimization In Battery Operated Devices	1. Samsung Electronics Co., Ltd. 2. Delhi Technological University	12 <sup>th</sup> January, 2023
6	Dr. Mohan Singh Mehata	System And Method for Detecting Trivalent Metal Ions	Delhi Technological University	11 <sup>th</sup> March, 2023
7	Prof. Kapil Sharma, Sachin Kumar Agrawal	Honest Random Number Generation & Intelligent Millimetre-Wave Honest Random Number Generator Thereof	1. Samsung Electronics Co., Ltd. 2. Delhi Technological University	29 <sup>th</sup> September, 2023
8	Prof. Kapil Sharma, Sachin Kumar Agrawal	Proximity Based Access Control in a 5G Wireless Communication Network	Delhi Technological University	20 <sup>th</sup> October, 2023
9	Prof. Om Prakash Verma, Nirmal Pandey, Nitesh Goyal, Amioy Kumar	Method And System for Managing Access to An Application in A Computing-Device	1. Samsung Electronics Co., Ltd. 2. Delhi Technological University	10 <sup>th</sup> June, 2023
10	Dr. Divyashikha Sethia, Prof. Daya Gupta, Huzur Saran, Ujjwal Arora, Mayank Goyal	Portable Computing Device Based Secure Medical Records Management	Delhi Technological University	24 <sup>th</sup> March, 2023
11	Dr. Pawan Kumar Tyagi, Lucky Krishnia	Growth Of Diamond Film Using Thermal Cvd At Atmospheric Pressure Using Sugarcane Bagasse as Carbon Precursor And Process Thereof	Delhi Technological University	27 <sup>th</sup> January, 2023
12	Dr. Divyashikha Sethia, Prof. Daya Gupta, Huzur Saran, Ujjwal Arora, Mayank Goyal	Portable Computing Device Based Secure Medical Records Management	Delhi Technological University	24 <sup>th</sup> March, 2023

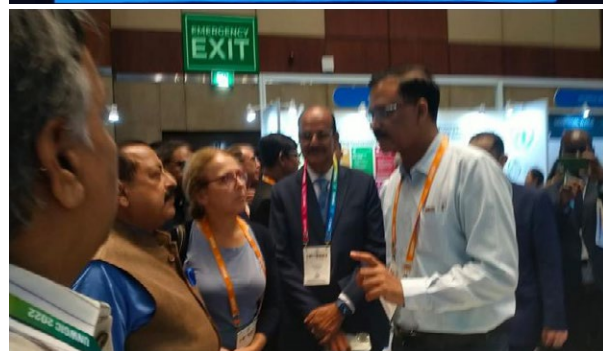
## 5.9 Multidisciplinary Centre for Geoinformatics (MCG)

Coordinator; **Prof. K. C. Tiwari** (Civil Engineering)

Geoinformatics is describe as the science and technology dealing with the structure and character of spatial information, its capture, classification, quantification, storage, processing, portrayal and dissemination etc. including the infrastructure necessary to secure optimal use of this information. Multidisciplinary Centre for Geoinformatics (MCG), DTU is working with the vision to be a world class Multidisciplinary center in the field of geospatial and Geoinformatics education, research and consultancy.

### 1. Participation in 2<sup>nd</sup> United Nations World Geospatial Information Congress:

The 2<sup>nd</sup> United Nations World Geospatial Information Congress was held in Hyderabad, India from 10<sup>th</sup> – 14<sup>th</sup> Oct 2022. Prof. K. C. Tiwari from DTU was part of the National Organizing Team. JRF Ms. Poonam Vishwas, JRF Mr. Mayur Shelhalkar, Mr. Saksham and Mr. Sparsh Singh (both from B.Tech Engineering Physics) participated in the Congress and presented posters.



Interaction with Hon'ble Minister of State Science and Technology – Dr. Jitendra Singh



Poster Presentation at UNWGIC by MCG, DTU

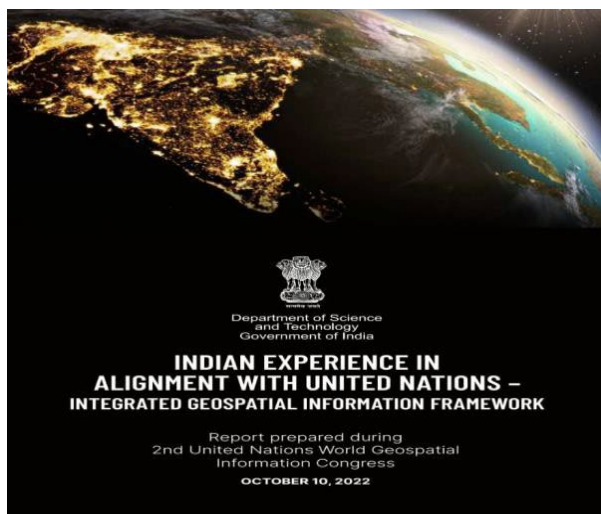


Address by Prof. K. C. Tiwari on Geospatial Education in India



Award to the School with best presentation on utilizing Geospatial Technology Tools

The MGC at DTU was described in detail in the Book brought out during the UNWGIC by Department of Science and Technology (DST) titled, “Indian Experience in Alignment with United Nations – Integrated Geospatial Information Framework”.



## 2. Award at NSG Hackathon:

NSG conducted a Hackathon for nearly a year in which it came out with 8 problem statements of relevance to Defence. The students at MCG worked on the problem statement, ‘Simulator System for Training of NSG Commands in a closed GPS Denied Environment’. They requirement was to develop a vest and a laser based weapon attachment which could connect to a laptop with all firing details.

Accordingly, a vest with 4×4 cm solar sensors was developed which would emit electrical signals in using RGB laser. Five grids of this 4×4 sensors were arranged inside the vest and each had a sensor and location ID. A microprocessor with communication device was placed within the vest which would pass the receipt of signal at any of the 4×4 sensor.

An attachment was also developed which could be connected to the trigger of any weapon. The weapon can be fired on any firing mode and on pulling trigger laser pulse of 5 milliseconds would be fired. The solar sensors on the vest that gets hit emits a signal which through microprocessor gets transferred to the laptop. Similarly, each

weapon attachment has an ID is connected to Laptop through WiFi. Thus, laptop gets data of which weapon fired, who is hit and where is he hit. This is displayed on a dashboard on laptop. This can be done for two or more different teams consisting of any number of persons. Thus, on a laptop, one can analyse the performance of each individual or team.

Besides, an Ultrawide band-based positioning system has also been developed so that position of each of the individual can be tracked through laptop. The Command Centre with laptop can thus monitor position as well as the hit details and control the training. The vest can be further improved using IR sensors, the weapon attachment can be made smaller by printing on a PCB and positioning system can be scaled for larger area with multiple rooms and multistoried buildings. All the above has been done on a shoestring budget. In this Hackathon, 236 applications were received for the complete set of problem statements, 98 reached proof of concept stage, 16 reached prototype development stage and finally five prototypes were developed. Our prototype was adjudged second in terms of level of development and innovation. The team was awarded ₹ 50,000/- for this prototype development.



*NSG Hackathon Award*



*NSG Hackathon Award*



*Prototype laser Gun with attachment*



*Prototype laser Gun with attachment*

### 3. Participation in Geosmart India:

GeoSmart India and ISRS/ISG National Symposium and Annual Conventions was jointly organized from 15<sup>th</sup> – 17<sup>th</sup> November, 2022 at Hyderabad International Convention Centre to facilitate open and solution-oriented multi-stakeholder dialogue; discussions to address some of the most persistent socio-economic challenges; facilitate networking of geospatial community consisting of government, mapping agencies, researchers, academics and private industry and users of spatial information; and fostering progressive policy change. Prof. K. C. Tiwari from MCG, DTU was invited to deliver a lecture on challenges in Geospatial education by



Department of Science and Technology (DST).



*Address by Prof. K. C. Tiwari from MCG, DTU on challenges in Geospatial Education*

### 4. Participation in Defence Expo 2022:

The 12<sup>th</sup> edition of Def. Expo India's flagship exhibition on Land Naval and Homeland Security systems was held in Gandhinagar, Gujarat from 18<sup>th</sup> to 22<sup>nd</sup> October, 2022. Directorate General Defence Estates (DGDE), Ministry of Defence constituted a committee for development of Draft Standards for Drone based Survey and



Mapping. It conducted a workshop on development of standards for Drone based Survey and mapping during the Defence Expo. Prof. K. C. Tiwari from DTU was invited to deliver a lecture on issues and challenges in Drone based Survey and Mapping.



DEFENCE EXPO-2022

Draft Standards for Drone Survey "Quality Aspects of Drone based SDO Imaging for Land Survey Purpose"

20.10.2022 (Thursday) - Afternoon Session (1615-1730 Hrs)

Topic : Draft No. 2, Mahatma Gandhi Convention and Publication Committee

MINUTE TO MINUTE PROGRAMME

Time	Event	Programme
1615 - 1625	Welcome Address	Sh. Ajay Kumar Sharma, Director General Defence Estates
1625 - 1635	Inaugural Address	Dr. Ajay Kumar, Deputy Secretary, Ministry of Defence
1635 - 1645	Release of Version 2 of Draft Standards	Dr. Ajay Kumar, Deputy Secretary, Ministry of Defence
<b>SPEAKERS FOR PANEL DISCUSSION</b>		
1645-1715 Hours	Panel Discussion	Prof. Kamal Jain, Professor, IIT Bombay
		Prof. Rajeev Gupta, Senior Professor, BITS, Pilani (Ret.)
		Sh. V. Udaya Kumar, DIO, NIC, New Delhi
		Sh. J. Narendran, Scientist/Engineer, ISRO Hyderabad
		Prof. K. C. Tiwari, Professor, Delhi Technological University
		Dr. Ravi Kumar Thakur, Asst. Prof., IIT Roorkee
		Prof. Tanmay Tulshidas Vaidya, Asst. Prof., BITS Pilani Goa Campus
		Col. Rajat Sharma, Director, Survey of India Dehradun
		Sh. Smriti Shah, President, Drone Federation of India
		Sh. Vipul Singh, CEA, Aarav (formerly Aarav Unmanned Systems)
Moderator		Sh. Rahul Jain, MD, Matrix Geo Solutions P Ltd.
		Prof. Manan Bhat, Professor IIT Delhi
1715-1718	Presentation of Momentous to eminent speakers	Shri Ajay Kumar Sharma, Director General Defence Estates
1718-1720	Vote of thanks	Sh. Valeti Praveenchand, Addl. Director General, DGD

Some of the Committee Members constituted by DGDE for development of Draft Standards for Drone based Surveying and Mapping

## 5. Atulya Ganga Project:

MCG is working with 'Atulya Ganga'. Atulya Ganga is an NGO of Military veterans working with the objective of creating awareness for cleansing the Ganga. The veterans undertook a 5000 Km walk from Gomukh to Ganga Sagar and back to Gomukh in 2021 and in 2022, the team cycled 780 km from Yamunotri to Agra along the Yamuna in 2023. The pollution team of Atulya Ganga also collected water quality samples from river Yamuna and submitted its report to CPCB. The data generated has also been used for one M.Tech and one B.Tech project related to satellite based water quality monitoring.



## 5.10 Entrepreneurship Development Centre (EDC)

The aim of Entrepreneurship Development Centre (EDC) is to develop an institutional mechanism to create an entrepreneurial culture in the DTU community, and society in general. The centre mentors the budding start-up founders to pursue entrepreneurship as their career.

### Organization Structure:

Prof. Amit Mookerjee  
Dr. Pushpendra Singh  
(Consultant and serial Entrepreneur)

Mr. Raunaque Mustafa  
Ms. Priya Malhotra  
Ms. Varsha Sehgal  
Mr. Puneet Kumar Arora (Coordinators)

The centre provides mentorship to the budding start-up founders at USME, particularly the MBA-IEV students, along with students of other programs, to pursue entrepreneurship as their career. At the nascent stage, the centre had organised an experiential workshop on entrepreneurship under the government's Technical Education Quality Improvement Programme (TEQIP), and has hosted a start-up business plan competition in the annual fest 'Traction', which saw participation from various leading institutions such as IIM Lucknow, IIM Shillong, IIM Rohtak, among others, from various parts of India, with participation from over a hundred management students. It has worked with the 'Enactus' programmes to engage in social ventures that help improve the quality of life for the people in need.

In the past, august group of entrepreneur-mentors such as Mr. Aval Sethi (Ex. COO Bechtel and Director of EFS international), Mr. Sudhir Kant (CEO of AUD IIF), Mr. Manu Pranav (Director of Stellar Dynamics), Ms. Divya Rajput, Founder & CEO of Keshiha

services, Ms. Yasmin Rizwan, Founder and Finance expert, amongst others, who are directly involved in the student start-up mentoring

In the academic year 2022-23, a host of activities were held to facilitate entrepreneurship and innovation at the Campus. Some of the ventures of the MBA-IEV students which continued to perform during 2022-23 period, were as follows:

1. **"Innovative Scripts Private Limited"** is a dynamic SAAS start-up dedicated to pioneering the latest advancements in technology. With a focus on cutting-edge fields like Blockchain, Artificial Intelligence (AI), 5G, and post quantum encryptions, the company is at the forefront of innovation. Recognized as one of the top 75 emerging start-ups in India in the year 2022, Innovative Scripts has been acknowledged for its exceptional potential and impact in the start-up ecosystem. Additionally, the company has received funding support from the Ministry of Education's Innovation Cell and All India Council for



Technical Education (AICTE), Ministry of Education, Govt. of India. for further fuelling its growth and development. It also is recognised by the Start-up India.

2. **“Refoveo”** is all about serving clean, fresh and healthy food and beverages; The venture was first established at DTU main campus and serving fresh juice and vegetable salad to the students of DTU. The second outlet was opened at the East Campus during 2022-23, and succeeded commercially leading the company to invest further in new infrastructure. They plan their additional outlets in other institutions in Delhi and expand their staff.
3. **“Ishan-M”** is a start-up which offers a complete solution of all the digital marketing needs at one place, and already has over six leading business houses as clients. It continued apace during the 2022-23 period and expanded their revenues, eventually shifting operations out of the Campus during this period, with increased commercial success.
4. **“Nikiez clothing”** Indian wear Online Shopping. It offers exclusive Indian wear that features the latest trends and collection. It launches products on its online shopping portal every month and offers Lehengas, Sharara Suits, Garara Suits, dresses. It started operations during this period
5. **“Professional Range A+ Enhancing your natural beauty”** This start up aims to provide ‘One destination for Beauty & Salon Industry’ with Essential Oils & Nano-Technology as the base. The long term objective is to create an export house where skin care products would be distributed business to business. Vanshika started enhancing this company’s operations from Campus during this period and the founder also expanded distribution in Delhi, in

Gujarat through the exhibition stall route where she hired staff for the event. She was also interviewed on DD Urdu, as part of the MSME focussed show. She started manufacturing and distributing across states during this period.

6. **“Tiffinshala”** Aaradhya launched the home cooked tiffin service based aggregator model business starting with Noida, and plans of expanding to Ghaziabad and West Delhi in future. The firm was established in 2022-23 period and the website and back end was developed with the help of a team

of DTU interns from B.Tech, BBA and other programs. The pilot was launched successfully, and he was also incubated like the other start-ups mentioned above at DTU-IIF.



7. Apart from these start-ups with significant growth track, the following 15 start-ups were operating from the EDC, East Delhi Campus, during the 2022-23 period.

**STARTUPS AT DTU-IIF (INCUBATION)**

S. No.	Name	Company Name	Category (Student)	Remarks/ Funds (₹)
1	Akshita Malhotra Utkarsh Singh	Refoveo	IMBA/2K19/02 IMBA/2K19/16	50,000 (IIF)
2	Shubham Prajapati	Innovative Scripts Private Limited	2K19/IMBA/15	50,000 (IIF) & 10,00,000 (MoE)
3	Shikhar Mishra	Angetha Agro Pvt. Ltd.	2K19/IMBA/14	50,000 (IIF)
4	Saransh Jain	Freelance Mantra	2K20/UMBA/34	2,50,000 (IIF)
5	Nikhila Joshi	Nikiez	2K20/IMBA/01	50,000 (IIF)

**STARTUPS AT DTU-IIF (PRE-INCUBATION)**

S. No.	Name	Company Name	Category (Student)	Remarks/ Funds (₹)
1	Ishaan Sharma	Integrated Social Media Harnessing & Advertising Network Management	2K19/IMBA/07	50,000 (IIF)
2	Abhay Singh Boora	Carbon Culture	2K20/IMBA/06	50,000 (IIF)
3	Shalini Sharma	Grow Green World	2K20/FMBA/07	50,000 (IIF)
4	Vanshika Kakkar	A+ International	2K20/IMBA/08	50,000 (IIF)
5	Ira	Ayra	2K21/BAE/63	50,000 (IIF)
6	Aradhya Saxena	Tiffinshala	2K21/IMBA/02	50,000 (IIF)
7	Ravi Singh	Floramart	2K19/IMBA/13	50,000 (IIF)
8	Ramneek Singh	Baby On Board	2K21/FMBA/09	50,000 (IIF)
9	Isha Anand	Pawsibble	2K21/IMBA/15	50,000 (IIF)
10	Rahul Abhigyan	Vermiup	2K21/IMBA/12 2K21/IMBA/01	50,000 (IIF)

Apart from the start-up activity, there were several events held to initiate start-up ideas, encourage the first step of ideation and familiarise students and faculty with different aspects of the start-up journey. The following events were organised, some along with the DTU IIC, and with the student E-Cell at East Campus which is coordinated by the EDC.

- Dr. Deepti Aggrawal and Ms. Aakanksha Kaushik Organized a one-day seminar on “Significance of MSME sector in India” on 26<sup>th</sup> April, 2023.
- Mr. S. M. Rounaque Mustafa & Prof. Harleen Kaur organized a one-day

(seminar on “1<sup>st</sup> Annual Conclave on Family Business” on 14<sup>th</sup> September, 2022. This was a major event where the Chief Guest was Mr., Madhav Singhania, Chairman, CII Delhi Chapter and CEO, JK Cements; Mr. Ranjit Singh, Special Commissioner, Industries Delhi Government was Guest of Honour, and it was attended by over a hundred participants including over twenty participants from the local industry associations.

- Mr. S. M. Rounaque Mustafa organised a Panel Discussion where following panelists shared their perspectives on New Business Opportunities and Digital

- Mr. Vidya Sagar, Sr.GM MSME Mart, NSIC
- Mr. Vineet Chaudhry, Chairman and Managing Director, TTGA, (Alumni DCE)
- Mr. Sanjay Gaur, Member Patpadganj Industry Association
- Mr. M. M. Gupta, President CIMCME
- Mr. Jayant, Founder MytradeBox.

Transformation on 14<sup>th</sup> September, 2022.

- Mr. S. M. Rounaque Mustafa organized a one day workshop on “Demystifying the MetaVerse”, on 30<sup>th</sup> November 2022, under the aegis of IIC, DTU.
- One day workshop on Startup Day on 16<sup>th</sup> January, 2023, was held for the benefit of students to encourage the start-up culture and panel discussion was held with start-up founders.
- Mr. S. M. Rounaque Mustafa organized a panel discussion on “Angel Investment/ VC Funding Opportunities for Startup” on 4<sup>th</sup> September, 2022, under the aegis

Two day workshop on “EBuzz 2.0” from 20<sup>th</sup> - 21<sup>st</sup> February, 2023:

of IIC, DTU.

It was a compendium of student competitions, involving the E-Cell initiative to involve student community, and ended with panelists from major start-ups attending the event as judges for the Competition, and also participation in a panel discussion, held in a full house at the Manthan Hall, USME.

On the first day, four competitions were held simultaneously and the competitive spirit filled the atmosphere. The four

competitions put aspiring entrepreneurs to the test in a variety of ways. The list of competitions included **Entre-mandi, Ace-the Case, Will you be my Co-Founder and Roaster Boaster**. Students from various colleges across Delhi NCR participated and certificates along with prizes were awarded to winners.

The second day witnessed a panel discussion followed by Idea presentation. The program started with a welcome address by **Prof. Rounaque Mustafa, Faculty coordinator of Ecell**. The panel included 4 renowned entrepreneurs **Mr. Paarug Sethi, Co-founder of Slippery slopes podcast, Mr. Saurav Gupta, founder of Leadzilla, Mr. Arun Mittal, Co-founder of NPOCA and Mr. Anant Sharma, Co-Founder of Tweek Labs ( SHARK TANK funded)**.

The youthful founders shared their knowledge and lessons with an audience of more than 200 students. The session was followed by a Q&A session where students had the opportunity to ask the speakers questions. Next, shortlisted participants were welcomed to take the stage for Ideathon which is E-cell's flagship competition that invites new business ideas and awards cash prizes to the winner.

350 applications for the event including 100 for Idea presentation with participation from 5 college of IP University and 5 colleges from DU including DSE, Daulatram, SRCC, FMS, Kirorimal and Symbiosis Noida.

With all these events the Entrepreneurship Development Centre has helped in fulfilling the part of the Mission of USME related to entrepreneurship and innovation and encouraging the community at USME to engage in the above.



Panellist and Participants at E-Buzz 2022-23

## 5.11 Equal Opportunity Cell

The Equal opportunity cell of DTU is set up in the year 2018 with the aim to assist and counsel the students belonging to deprived sections including the scheduled castes, scheduled tribes, women, persons with disabilities, etc. pursuing various programs of studies at the University.

### Organization Structure:

Name	Designation
Prof. Rachna Garg	Director
Prof. T. Vijay Kumar	Additional Director
Dr. Geeta Singh	Assistant Director
Ms. Minni Jain	Assistant Director

### Objectives:

1. To work out suitable programs/ schemes, including Remedial Courses, for improving the academic performance of students from SC, ST, OBC, women and persons with disabilities (whether at undergraduate, postgraduate, PhD or other levels) and/ or to monitor the implementation of such programs/ schemes.
2. To coordinate with government and other funding agencies (including Public Sector Undertakings/ Public Sector Banks) with a view to mobilize financial and other resources required for educational empowerment of the students from marginalized sections.
3. To disseminate the information and act as a counselling-cum-guidance centre for students belonging to the marginalized sections, especially regarding academic, financial, and social matters;
4. To help and develop a cordial inter-personal relationship among students and between teachers and the students from marginalized sections for academic interaction and extra-

curricular activities; by sensitizing the teaching and other staff.

4. To promote a social and psychological environment to raise awareness on sexual harassment and gender-based discrimination against women.
5. To organize or conduct seminars/ symposia/ workshops/ conferences/ exhibitions/training program, etc. from time-to-time on issues of contemporary significance for empowering, educationally, and culturally, students belonging to the marginalized sections.

### Important Events organized:

**Event:** Panel discussion on “Ovarian Cancer”

**Date:** 21<sup>st</sup> September 2022

**Event:** Introduction to Parivartan Yojna: “A Delhi Police Initiative for Women safety”

**Date:** 20<sup>th</sup> October, 2022

**No. of participants:** 83

**Event:** An awareness program on “Women's Health and Hygiene”

**Date:** 10<sup>th</sup> November, 2022

**No. of participants:** 45

**Event:** An awareness program on “Gender Sensitivity and POSH Act” by Mrs. Vasudha Mehta

**Date:** 31<sup>st</sup> January, 2023

**Event:** Celebrated “International Women's Day” in Pragyan Hall, Admin Building, DTU

**Date:** 10<sup>th</sup> March, 2023

**No. of Participants:** 68

## 5.12 Centre of Excellence for Technologies (CoE for EVRT)

### Organization Structure:

**Prof. Madhusudan Singh**  
(Coordinator)

**Prof. Uma Nangia**  
(Co-Coordinator)

The University has established Centre of Excellence for Electric Vehicles and Related Technologies (CoE for EVRT) to impart training & research in thrust area of Electric Vehicles and Related Technologies. The Centre helps in developing an eco-system for transformation from a traditional to eco-friendly transportation system. State-of-the-art facility for training of EVs is created to carry out interdisciplinary research in Electric Vehicle and associated areas.



This centre was inaugurated by Prof. Yogesh Singh, Hon'ble Vice Chancellor, University of Delhi and Former Vice Chancellor, DTU on 7<sup>th</sup> October, 2021. It is jointly funded by Delhi Knowledge Development Foundation, Govt. of NCT of Delhi and DTU.

CoE for EVRT has focused research areas includes, but not be limited to design, development, and analysis of electric vehicle motors and drives,

## Electric Vehicles and Related

charging infrastructure, charge controllers, retrofitting communication between the power grid and EVs, battery management systems and charging stations, etc.

This Centre is not only providing interdisciplinary research and development ecosystems but also offering internships, skills development courses, entrepreneurship programs and facilitating industrial trainings for undergraduate students and research scholars.

In addition, the Centre will start minor specialization in Electric Vehicles and Related Technology for under graduate students from January, 2024. Further, the Centre has organized Eight-Weeks summer internship for the students of various institutions during June - August, 2023.



In addition, few Ph.D. scholars are already working on different research areas in the Centre. The Centre will strive for networking and collaboration with industries, research laboratories, and other institutions of



excellence in India and abroad to carry out cutting-edge research and development in EVs, along with offering postgraduate programs.

Many faculty members of the department of Electrical Engineering, DTU are already working in different areas related to electric vehicles technologies through various sponsored projects. These islands of research endeavors and the expertise of the faculty members, involved in them, is being gainfully collaborated for development of CoE for EVRT. In a very short of span, the CoE for EVRT has been established a strong industry-academia collaboration to achieve the objectives of the Centre. The main focus of the Centre includes:

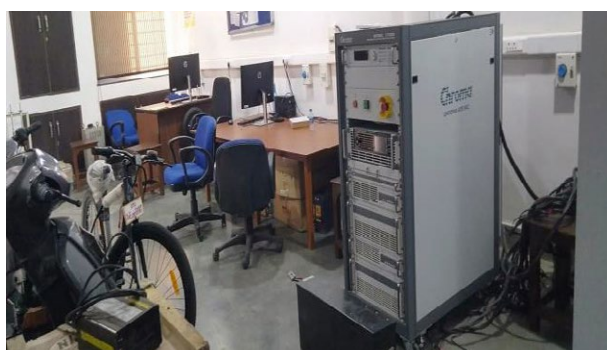
Design, development and analysis of EV motors and drives
Design, development, and analysis of cost-effective and sustainable EV prototype
Design and development of battery packs and BMS for different types of EV
Design and retro-fitment of existing ICE vehicles to EVs
Design and development of EV charging infrastructure and grid management
To offer M.Tech. and Ph.D. Programs in the area of EV technology
To offer internship opportunities to students of degree, diploma and certificate level institutions under Government of NCT of Delhi.
Capacity building in terms of trained manpower at different levels such as technicians, supervisors, and engineers in the area of EV technology.

### Key Achievement and Infrastructure:

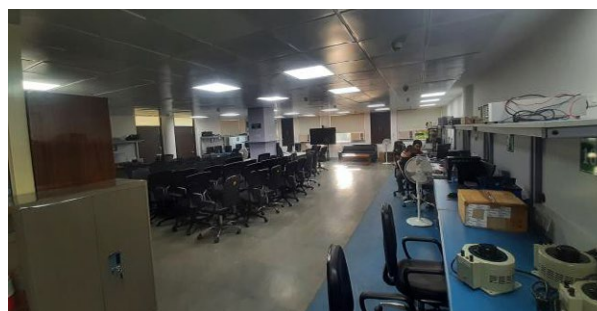
A 3-Storey building with built up area of 3357 sq. ft. is constructed in Electrical Engineering Department of DTU for the Centre. The ongoing research projects at the Centre include retrofitting work in IC engine-based vehicles (Development of Electric Kits)



- Development of Motor Drives and Controller for EVs
- Development of Battery Management System (BMS)
- Development of EV Chargers and Converters



For research and development activities necessary Test Equipment have been procured in the Centre. Also, adequate technical manpower for research and development activities are engaged and working on different projects in the Centre. The Centre is signing MoUs with leading EV manufacturers/start-up for commercialization of EV products through technology transfer agreements.



## Capacity Building Activities:

The department organized summer internship on “Electric Vehicles Technology” from 19<sup>th</sup> June to 12<sup>th</sup> August, 2023 for students of diploma and engineering institutions of Govt. of NCT of Delhi. Eleven students in 2022 and Twelve students in 2023 completed their Eight-Weeks internship in the Centre. The Centre has also organized One-Day Workshop on “Power Converter Technologies in Electric Vehicle Applications” on 26<sup>th</sup> December, 2023.

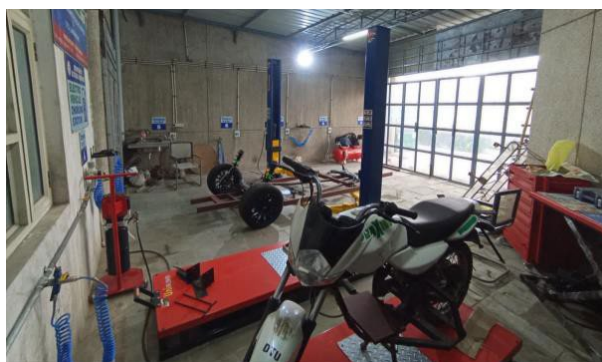
### Retrofitting of 2-wheeler Vehicle



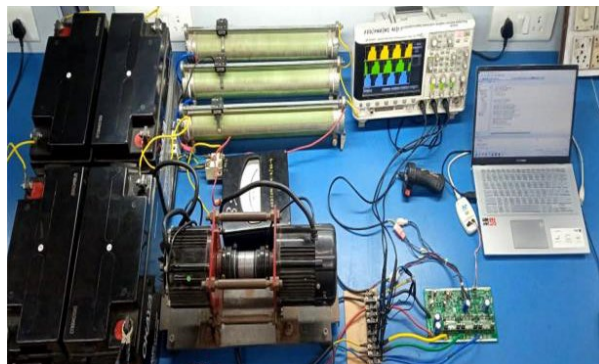
### Retrofitting of 4-wheeler Vehicle



### Developed Workshop for EV



### Design, Development, Testing and Field Development of BLDC Motor Controller for E-Rickshaw



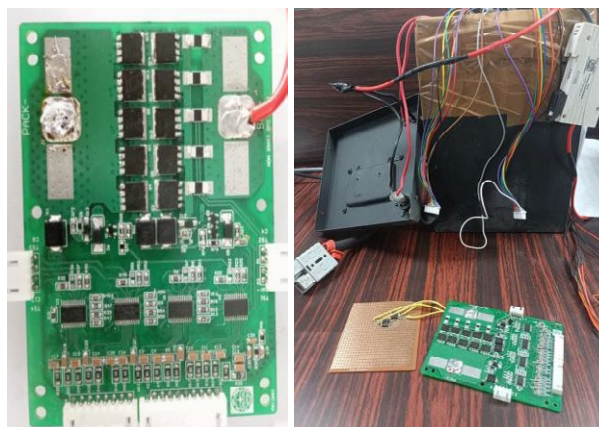
### Design and Development of Four Seater prototype Car model



### Development of Smart Battery Management System (BMS)



### Developed Non-Smart Battery Management System (BMS)



### 5.13 Centre of Excellence for the Science of Happiness

This centre has been established with the vision “To promote the science and art of happiness scientifically through education, research activities, collaborating with industry and stake holders. This centre has made MoU with Rekhi Foundation, Heartfulness Institute for collaborative activities. Ph.D. admission has been initiated in the centre to start the program from August 2023.

#### Organization Structure

**Prof. T. Vijaya Kumar**  
Coordinator / HOD

**Prof. S. Indu**  
DRC Chairperson

**Dr. P. K. Goyal**  
Co-coordinator

**Dr. Naval Garg USME**  
Co-Coordinator  
(East Campus)

**Dr. S. S. Rekhi**  
Adjunct Faculty

**Dr. Pooja Sahni**  
Visiting Faculty

**Prof. Manas K. Mandal**  
Guest Faculty

#### Activities organized during 2022-23:

##### MEDITATION SESSIONS

Regular weekly meditation sessions are conducted at Guest House for students and staff and periodical sessions at Value added courses.



##### International Youth Meet

Through this centre, 60 students have attended International Youth Meet on the theme “Rising with Kindness” at Hyderabad, organized by Heartfulness Institute in collaboration with AICTE during 12<sup>th</sup>–15<sup>th</sup> August, 2022.



### Teachers Day Celebration

Teachers day is celebrated by this centre & STEP (A students' society under this centre) during 5<sup>th</sup> – 9<sup>th</sup> September, 2022. Various Programs including Dr. Saamdhu Chetri's Lecture, Screening of films, Cultural activities, Quiz etc. are organized.



### Nature Walk Program

About 70 students were taken to Nature Walk Program to a retreat Centre near Palla Village, Delhi with the theme of "Save Environment and tune with nature for happy life" on 6<sup>th</sup> November, 2022.



### Workshop

A workshop is organized on "Teaching the science of happiness: Expectations & Mind Lab" on 29<sup>th</sup> September, 2022 with IIT Khargpur Experts.



### Expert Lecture

An Expert Lecture was conducted during Orientation Program for newly admitted students by Prof. Manas Mandal (Topic: Happy people are more Productive), and Dr. Rahul Mehrotra, Max Hospital (Topic: Mental well-being) during 7<sup>th</sup> – 11<sup>th</sup> November, 2022.



## 6. Alumni Contribution

The link between DTU and its alumni is deep and well established. DTU endeavors to develop new chances for its students while promoting alumni links with their alma mater. Our DCE-DTU alumni association is very strong and active in arranging Homecoming Meet for our distinguished alumni.

### Organization Structure:

**Prof. Rajesh Rohilla**, Dean

**Prof. Yasha Hasija**, Associate Dean

### Scholarship Instituted by our distinguished Alumni:

Name of Scholarship	Amount
Jagjit & Paramjit Ahuja Scholarship	₹ 3,00,000/-
Vijay Birbal Gold Medal	₹ 5,00,000/-
Dr. C.S. Arora & Sushma Arora Scholarship	₹ 3,00,000/-
ASIJA Memorial Scholarship	₹ 6,00,000/-
Vijay Shekhar Sharma	₹ 15,00,000/-

### Donations made by our distinguished Alumni:

1. Dr. Raj Soin donated \$ 125640 (₹ 1,01,19,383/-) 3<sup>rd</sup> instalment towards Raj Soin Hall.
2. Prof. D. Yogi Goswami and Mrs. Karuna Goswami donated \$ 50,000 (₹ 40,67,805/-) 3<sup>rd</sup> instalment towards Establishment of Energy & Environment Centre at DTU.
3. Sh. Shashi Kishore Jain donated ₹ 1,00,000/- for DTU Donation & Contributory Fund.
4. Sh. Sat Prakash Goel donated ₹ 3,00,000/- for DTU Donation & Contributory Fund.

5. Sh. Vinod Dham donated \$ 50,000/- (₹ 40,39,910/-) 1<sup>st</sup> instalment towards Vinod Dham Center for Semiconductor Research.

6. Sh. Vijay Shekhar Sharma donated ₹ 2 Crore for setting up Lab on wheels, to establish Testing & Training facilities for Electric Vehicle and eV Technologies.

### Events:



### Inauguration of Raj Soin Hall:

- Dr. Raj Soin (Alumnus of 1969 batch) donated ₹ 5 crores towards Raj Soin Hall. The inauguration of the Hall was held on 28<sup>th</sup> October, 2022. Following were the Guest of Honor:
- Dr. Raj Soin, (CEO, Soin LLC and distinguished Alumnus of Class of 1969).
- Mr. Vinod Dham (Father of Pentium Chip, Distinguished Alumnus of Class 1971).
- Dr. Muktesh Chander, (President, DCE/DTU Alumni Association).
- Shri Karnal Singh, (Former Chief, Enforcement Directorate).
- Shri Vijay Shekhar Sharma (Founder & CEO Paytm, Alumnus of 1998).
- Prof. Yogesh Singh (Hon'ble Vice Chancellor, University of Delhi).

### The function was presided by:

- Prof. J. P. Saini (Hon'ble Vice Chancellor, DTU).

- Prof. Madhusudan Singh, Registrar, DTU.
- Prof. Rajesh Rohilla, Dean Alumni Affairs, DTU.
- Prof. Yasha Hasija, Associate Dean Alumni Affairs, DTU.

### Homecoming Meet 2022 (Diamond-Golden-Silver Jubilee):



Diamond, Golden & Silver Jubilee Homecoming Meet-2022 for DCE graduates (Classes of 1961, 1962, 1971, 1972, 1996 & 1997), a program to felicitate them for their achievements and services to humanity at large presenting before them, different activities related to our alumni held at Delhi Technological University on 28<sup>th</sup> October, 2022. Following distinguished alumni were present:

- Mr. Vinod Dham (Father of Pentium Chip, Distinguished Alumnus of Class 1971).
- Dr. Muktesh Chander, (President, DCE/DTU Alumni Association).

#### The function was presided by:

- Prof. J. P. Saini (Hon'ble Vice Chancellor, DTU).
- Prof. Madhusudan Singh, Registrar, DTU.
- Prof. Rajesh Rohilla, Dean Alumni Affairs, DTU.
- Prof. Yasha Hasija, Associate Dean Alumni Affairs, DTU.

### Alumni Meet 2022 by Alumni Association (at Subra to Prak):



DCE-DTU Alumni Association organised Alumni meet for the Classes of 1961, 1962, 1971, 1972, 1996 & 1997. Distinguished alumni of the batches were felicitated by the Chief Guest- Her excellency Smt. Smriti Zubin Irani (Cabinet Minister for Women & Child Development, & Minority Affairs).

#### The function was presided by:

- Prof. Madhusudan Singh, Registrar, DTU.
- Prof. Rajesh Rohilla, Dean Alumni Affairs, DTU.
- Prof. Yasha Hasija, Associate Dean Alumni Affairs, DTU.

### Class of 1967 Distinguished Alumni Meet:



Distinguished Alumni of class 1967 batch of DCE visited DTU on 24<sup>th</sup> November, 2022 to explore the possibilities of any Alumni



initiative at DTU. Following distinguished alumni were attend the meeting:-

- Dr. Durga Das Agrawal (Alumnus of 1967, Mechanical Engineering, Founder, President and CEO of Piping Technology & Products Inc. and first president of the Indo-American Chamber of Commerce of Greater Houston).
- Sh. Shiv Agrawal (Alumnus of 1967, Mechanical Engineering, Entrepreneur).
- Col Yash Pal Chopra (Retd) (Alumnus of 1967 batch, Mechanical Engineering).
- Col M. R. Vij (Alumnus of 1967 batch).
- Shri M. K. Rampal (Alumnus of 1969 batch, Mechanical Engineering).
- Shri B. M. Verma (Alumnus of 1967 batch, Mechanical Engineering).
- Shri S. C. Tayal (Alumnus of 1967 batch, Civil Engineering).
- Shri Subodh Sheel (Alumnus of 1967 batch, Electrical Engineering).
- Shri P. K. Agarwal (Alumnus of 1967 batch).
- Shri Vijay Kumar Bali (Alumnus of 1967 batch).
- Shri Vijay Mendiratta (Alumnus of 1967 batch).

### Visit of Distinguished Alumnus Prof. DharendraYogi Goswami:

Prof. D. Yogi Goswami visited DTU in December, 2022 to discuss about the activities under the **“Centre for Energy and Environment”**. He has contributed the

donation of \$ 1,00,000 for establishing the **“Centre for Energy and Environment”**. He is Distinguished University Professor in Chemical Engineering, and Director of the Clean Energy Research Center at the University of South Florida. Founder of the air purifier company Molekule. He is the editor-in-chief of the Solar Compass, journal of the International Solar Alliance. He is the inventor of the Goswami thermodynamic cycle. His inventions have been commercialized and in 2016 Dr. Goswami was inducted into Florida inventors Hall of Fame.

### Visit of Distinguished Alumnus Dr. Durga Das Agrawal:

Dr. Durga Das Agrawal, alumnus of 1967 batch, Mechanical Engineering visited DTU formerly DCE in December, 2022 for discussing and exploring the possibilities of Alumni initiatives. Dr. Durga Das

Agrawal is the founder, President and CEO of Piping Technology & Products, Inc. and first president of the Indo-American Chamber of Commerce of Greater Houston. He has been part of many delegations to promote trade and exchange of educational and medical resources between Houston and India.

### Visit of Sh. Prem Kumar Asija (Alumnus of 1971, Electrical Engineering):



Shri. Prem Kumar Asija, DCE Alumnus of 1971, Electrical (Electronics) Engineering visited DTU on 1<sup>st</sup> March, 2023 for signing the MoU between DTU and Sh. Prem Kumar Asija towards his donation of ₹ 6,00,000/- in DTU Medals & Scholarship.

### Interaction with Sh. Mahesh Joshi:



An interaction program “Carbon Capture” with Sh. Mahesh Joshi (Alumnus of 1982 batch, Mechanical Engineering) was held on 20<sup>th</sup> April, 2023 for students of Mechanical Engineering.

He is a seasoned Global Business Executive with four decades of extensive Global business experience in senior management roles. He is currently the President and MD, MAN Energy Solutions USA Inc (A Volkswagen Group company) and Head of America region.

### Distinguished Alumnus Mr. Varun Algh at the inauguration ceremony of INVICTUS 23:



Mr. Varun Alagh (Alumnus 2001), Co-Founder and CEO of Honasa Consumer Pvt Ltd was Chief Guest for the inauguration ceremony of Invictus '23 (DTU's technical Fest). Prof. Rachna Garg (Chairperson Technical Council)

### The function was presided by:

- Prof. J. P. Saini (Hon'ble Vice Chancellor, DTU).
- Prof. Madhusudan Singh, Registrar, DTU.
- Prof. Yasha Hasija, Associate Dean-Alumni Affairs, DTU.
- Dr. Ram Singh, Associate Dean- Student Welfare.

## 7. Outreach and Extension Activities

Board of Management in its 27<sup>th</sup> meeting on 23<sup>rd</sup> February, 2018 has approved the establishment of Center for Extension and Field Outreach at DTU. The role of the center is to extend knowledge and other institutional resources to the community and vice-versa and to gain insights from a contact between knowledge resources and socio-cultural realities with a view to reflecting these in the entire curricular system of higher education including teaching and research. It is a two-way process between the experts and the people, an intellectual intervention in the community's living problems which need to be overcome through an educational process.

### Organization Structure:

<b>Prof. A. K. Srivastava</b>	Dean
<b>Prof. Nitin Puri</b>	Associate Dean

#### AIM

To promote a meaningful and sustained rapport between the University and the community

### Objective:

- To extend knowledge and other institutional resources to the community and vice-versa.
- To gain insights from a contact between knowledge resources and socio-cultural realities with a view to reflecting these in the entire curriculum system of higher education including teaching and research.
- To provide two-way process between the experts and the people.
- To provide an intellectual intervention in the community's live problems.
- To promote the philosophy of extension and outreach as a part of total education program.
- To reach out to larger section of community specially deprived groups through extension.
- To enrich the learning process of faculty and students mainly through extension activities.
- The interest of the students should be considered for academic credit (1 or 2) in addition to or as a part of their regular course of studies.

### Broad Categories of Program:

- Services to Schools and Colleges
- Services to the Community
- Services in the University

### Number of awards and recognition received for extension activities from Government/recognized bodies:

#### Name of Activity: Lab on Wheels

**Award Money:** ₹, 2,00,00,000/-

**Name of the awarding govt./recognized body:** MIs Paytm (Foundation)

**Year of Award:** MoU signed on 22<sup>nd</sup> Dec, 22 and amount Received on 25<sup>th</sup> Jan, 2023

Average percentage of students participating in extension activities with Government Organizations, Non-Government Organizations and Programmes such as Swach Bharat, Aids Awareness, Gender issue etc.

FEC  
**251**USPI DTU Interns  
**06**USIP Lab on wheels' Interns  
**60****MENTORS**

**2800** students mentoring **11,200** schools students  
(mentees) under the project "Desh Ke Mentor"

**Activities Conducted during 2022-23:**

Activity	No. of Participants
Under Open House Visit of Students of N. K. Bagrodia Public School, Rohini, Delhi	31
Under Open House Visit of Students of Co ED SSS, ZP Block, Pitampura Delhi	25
Under Open House Visit of Students of Co ED SSS, ZP Block, Pitampura, Delhi	64
As integral academic part start Basic Python Programming in one of the schools at Pitampura.	16
Workshop on "Exploring Engineering"	Certificate were given to 184 students
Open House program organized on 11 <sup>th</sup> October, 2022	281 DTU students and 8000 school students
A Nukkad Natak in Barwala village with theme as "Corruption Free India Developed Nation"	60
A visit to JSS Academy of Technical Education, Noida as an activity of calendar of AICTE through IIC-DTU.	16
2WIP in Fashion Design in association With Department of Design, DTU	20
Dean, OEA was invited as a Chief Guest in GC SSS ZP Block, Pitampura	140
Seminar on "Export Import Management with IIIEM"	58
Inauguration program on "Yoga Wellness Trainer" for short term course/certification under Skill Hub Initiative (PMKVY4.0), Govt of India and started 3 months' certificate course	51

## 8. International Affairs

**Prof. Pravir Kumar** (Biotechnology) Dean

In the academic year 2022-23, the office of International Affairs, DTU has admitted foreign national Students from approximately 33 countries.

### Total Foreign National Student Admitted in Academic Year 2022-23:

Program	DASA		ICCR		DTU Portal		Total		Total Admissions
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
UG	43	10	35	18	04	02	82	30	112
PG	00	01	06	12	00	00	06	13	19
Ph.D.	00	00	00	02	00	00	00	02	02
	43	11	41	32	04	02	88	45	133

### Program organized by International Affairs:

**Program:** DTU International student get-together Meet 2023

**About:** Event to welcome international students and a get-together meet (DTU International student get-together Meet 2023)

**Date:** 23<sup>rd</sup> February, 2023

### Events conducted by International Affairs:

Visit to the French Institute in India (Embassy of France), Date: 16 <sup>th</sup> September, 2022
Visit of Delegation from ESTP Paris (France) at DTU, Date: 23 <sup>rd</sup> September, 2022
Visit by n+I French Delegates at DTU (OIA), Date: 10 <sup>th</sup> October, 2022
Meeting with Canadian Delegates, Date: 11 <sup>th</sup> October, 2022
Visit by Israeli Delegates at OIA, DTU, Date: 12 <sup>th</sup> October, 2022
Visit by Cambodian Delegates at OIA, DTU, Date: 28 <sup>th</sup> October, 2022
Visit by Delegates from Yemen at OIA, DTU, Date: 3 <sup>rd</sup> November, 2022
n+I French Delegation's Visit/Seminar to discuss opportunities for higher education in France, Date: 9 <sup>th</sup> November, 2022
Visit by the Delegates from University of Bordeaux, Date: 10 <sup>th</sup> November, 2022
Visit by the Delegates from RTU, Latvia, Date: 11 <sup>th</sup> November, 2022
Delegation from University of South Florida Cullen College of Engineering, Date: 14 <sup>th</sup> November, 2022
Visit to Embassy of Brazil, Date: 15 <sup>th</sup> November, 2022
Visit by Delegates from University of Bristol, UK, Date: 18 <sup>th</sup> November, 2022
Visit of German Delegate from GIZ, GmbH, Date: 19 <sup>th</sup> September, 2023

## Functional MoUs with Esteemed Institutions/Universities/ Industries/ Corporate houses:

MOUS DURING LAST FIVE YEARS				
S. No.	University/Organization	Year of Signing	Status	Duration
1	Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi, Uzbekistan.	2018	-----	5 years
2	Nan yang Technological university, Singapore	2018	Internship	5 Years
3	EPF, ÉCOLE D INGÉNIEUR-E-S, France	2019	Internship, Semester Away Programme & Invert Mobility	5 years
4	Balitar Islamic University, East Java, Indonesia	2019	Student & Faculty Exchange	5 years
5	Dr. Soetomo University, Surabaya, Indonesia	2019	Student & Faculty Exchange	5 years
6	Mandala College of Economics, East Java, Indonesia	2019	Student & Faculty Exchange	5 years
7	PGRI Adi Buana, East Java, Indonesia	2019	Student & Faculty Exchange	5 years
8	STIE Wilwatikta, East Java, Indonesia	2019	Student & Faculty Exchange	5 years
9	STIKI Malang, East Java, Indonesia	2019	Student & Faculty Exchange	5 years
10	STTM, East Java, Indonesia	2019	Student & Faculty Exchange	5 years
11	University as Wisnuwardhana Malang, East Java, Indonesia	2019	Student & Faculty Exchange	5 years
12	University of Kanjuruhan, East Java, Indonesia	2019	Student & Faculty Exchange	5 years
13	University of Pesantren Tinggi Darul'Ulum, Jombang Indonesia	2019	Student & Faculty Exchange	5 years
14	Widya Kartika University, Surabaya, Indonesia	2019	Student & Faculty Exchange	5 years
15	PGRI, Madiun	2019	Student & Faculty Exchange	5 years
16	STT Atlas Nusantara, Malang	2019	Student & Faculty Exchange	5 years
17	Nanjing University of Aeronautics & Astronautics, China	2019	Student & Faculty Exchange	5 years
18	Mapua University, Philippines	2019	Student & Faculty Exchange	5 Years
19	La Trobe University, Victoria, Australia	2019	Student Mobility	5 Years

20	Technical University of Crete, Chania, Crete, Greece	2019	Knowledge Sharing & Online Lectures	5 Years
21	University of Transport Technology, Vietnam	2019	Knowledge Sharing & Online Lectures	5 years
22	National Formosa University, Taiwan	2020	Semester Away Programme	5 Years
23	Universities Mercu Buana, Jakarta, Indonesia	2020	Knowledge Sharing & Online Lectures	5 Years
24	Riga Technical University, Latvia.	2020	Semester Away Programme	5 Years
25	Shahrood University of Technology, Iran	2023	Student & Faculty Exchange	5 years
26	Rovuma University, Nampula, Mozambique	2023	Student & Faculty Exchange	5 years
27	Eurecat Centre Technologic de Catalunya, Catalonia, Spain	2023	Under Process	-----
28	Indian Council for Cultural Relations (ICCR)	2023	Under Process	-----
29	ESTP Paris, France	2023	Student & Faculty Exchange	5 years

## 9. Planning & Consultancy (P&C)

The P&C Department was established on 1<sup>st</sup> January, 2022 and it is the backbone of the research and development of the University and controls the conduct of project and consultancy to fulfill the requisite conditions. The Sponsored research and Industrial consultancy projects are an essential means of enhancing institution-industry interaction and faculty development. By supporting the Govt, PSU and the industry, the University intends to contribute towards the country's economic growth and serve the society. Therefore, as a matter of policy, the University encourages its faculty members to undertake scientific and technical research/collaboration and consultancy work with outside agencies. The entire work of P&C is being governed by various provisions of the Act, Statutes, Ordinances and Rules & Regulations made therein by the authorities of the Delhi Technological University established by Govt. Of NCT of Delhi vide Act of 6 of 2009.

### Organization Structure:

**Prof. Nirendra Dev**  
(Dean)

**Prof. Munendra Kumar**  
(Associate Dean)

#### 1. Sponsored Project:

Name of the Project	Principal Investigators/ Co Principal Investigators	Name of the Sponsored agency	Funds provided (₹)
Performance optimization of Reconfigurable Intelligent Surface (RIS) Assisted Communication Networks Using Reinforcement Learning Algorithms for Smart Villages	Dr. Rohit Kumar, ECE	SERB	31,40,880/-
Matrices	Aditya Kaushik, Applied Mathematics	Science and Engineering Research Board (SERB)	6,60,000/-
Fellowship and Research Grant Under SERB-Power project	Dr. Rishu Chaujar, Applied Physics	DST	38,10,000/-
Design and Fabrication of Hydrogen Gas Sensor using Metal-Carbon Nano particles	Prof. Vinod Singh, Applied Physics	AICTE	1408431/-

#### 2. Consultancy Projects:

S. No	Name of the consultant	Name of the Consultancy Project	Contracted Amount (in ₹)
1	Mr. Gour Anunay Ashok kumar	Validation and approval of technical scheme, hydraulic calculations and hydraulic diagram: Upgradation and comprehensive operation and maintenance of 40 MGD, Rithala Phase-II STP	3,00,000/-

2	Dr. Ritu Raj	1. Proof checking of modified drawings of tower no.4 of surkanda devi ropeway, Uttarakhand 2. Proof checking of guest house cum cafeteria under phase-III at NIPGR, New Delhi 3. Proof checking of proposed commercial cum multiplex on DMRC Ltd. Plot at sector 20 B, FBD	2,00,000/-
3	Prof. Raju Sarkar	Third party quality check for CD-IX, I&FC Department (3)	1,46,902/-
4	Prof. Raju Sarkar	Repair/Rehabilitation/Strengthening of quarters of 55 Blocks at SPG Complex, Sector-8, Dwarka, New Delhi	8,11,846/-
5	Prof. Raju Sarkar	Testing of samples and job mix of road divisions of PWD	50,000/-
6	Dr. Ritu Raj	1. Material testing for construction of additional SPS classroom at GGSSS Shalimar Village and SBV BT Block 2. Material testing for construction of additional SPS classroom at SKV Malkaganj, Sushila Mohan Marg, GGSS Idgah Road, GSKV Burari, GGSS Burari 3. Design mix for PPP-HAM to set up TTP to treat secondary treated water from Indirapuram STP to supply industrial grade water to Sahibabad industrial estate Ghaziabad 4. Material testing for drinking water plant at Noida Sector-62 5. Proof checking for various project received from Swati Structure solutions pvt. ltd.	6,86,700/-
7	Prof. Raju Sarkar	Regarding third party quality assurance services for Delhi Development Authority, Munim Ji ka Bagh, Narela	1,38,677/-
8	Prof. Raju Sarkar	Regarding material testing for construction of medical college at Nagpur, Banswada and Dungapur Rajasthan site	50,000/-
9	Prof. Raju Sarkar	Regarding third party quality management audit TPQMA of REC Project Sector-57, Gurugram, NBCC	51,90,542/-
10	Dr. Ritu Raj	TPQA for 3 Nos of Pucca School with ancillary facilities (package-7) Edu West Division, PWD	20,96,570/-
11	Dr. Ritu Raj	1. Material testing for development/redevelopment of Central vista avenue at new Delhi 2. Material Testing for the construction of Hospital at Hastal, New Delhi	2,00,000/-
12	Dr. Ritu Raj	1. Structural vetting of foot over bridge at Ayodhya Station for northern railway 2. Checking of stability of the retaining cum boundary wall of one side (north side) in the campus of Kendriya Vidyalaya, Kushinagar, U.P 3. Material testing for construction of Pucca school building (G+3) with ancillary facilities at Rohini Sector-5, Delhi	2,00,000/-
13	Prof. Raju Sarkar	Investigation and evaluation of various roads under division north west road-1, PWD (Road 40) and PWD Shastri Park	6,90,000/-
14	Dr. Ritu Raj	1. Job mix for micro surfacing of Lawrence road from Britannia chowk red light to Rampura T point under PWD NWR-1 2. Proof checking of construction of lift well with extension of corridor in Ambedkar Bhawan NCERT Campus, Delhi	90,000/-

15	Dr. Ritu Raj	1. Material testing for construction of boundary wall of new India garden on western bank of Yamuna River near Pragati Maidan, New Delhi 2. Material testing for the construction of hospital at Madipur, New Delhi	3,00,000/-
16	Prof. Raju Sarkar	Testing of materials for New Delhi project division, CPWD, 3 B. D. Marg, New Delhi-110001	1,17,000/-
17	Dr. Ritu Raj	1. Proof checking of structural drawings of various projects under smart city mission, Karnal 2. Plug and play arrangement for Republic Day celebration 2023: Proof checking and vetting of staking facility for republic day celebration 3. Checking and vetting for structural design of school building, Bhopal, M.P.	15,00,000/-
18	Dr. Ritu Raj	1. PPP-HAM to setup STP to treat secondary water from Indrapuram STP to supply industrial graded water to Sahibabad industrial estate: Design mix approval for various cement 2. Approval of Design mix M-10 and M-25 from ND Construction RMC 3. Rehabilitation and UP gradation of Rithala phase-1 waste water treatment plant of 182 MLD: Design mix of M25 and M30 Grade of concrete	4,00,000/-
19	Prof. Amit Kumar Shrivastava	Design mix of 02 no: M30 (Shree Cement) and M30 (JK Cement), Grade of Concrete, DDA, Central Nursery, sector-5, Dwarka, New Delhi-110075	1,00,000/-
20	Prof. Amit Kumar Shrivastava	Design mix of 4 no and sampling testing: M35 With CA1+FA1+Cement C1+Flyash+admixture) M35 (with CA2+FA2+Cement C1+flyash+admixture) grades of concrete and material testing manager/civil, BHEL GHAVP site, Gorakhpur, Haryana	3,00,000/-
21	Dr. Ritu Raj	1. Material testing for the construction of boundary wall of new India garden on western bank of Yamuna river near Pragati maidan Delhi 2. A/R and M/O to Da flats haiderpur under PWD sub division-4 north west building during 2022-23 3. Construction of 768 units (3BHK) Social housing units pkg-II testing of building materials 4. Material testing of cement core for the construction of bridge on Najafgarh drain in Basaiarapur	3,65,000/-
22	Prof. A. Trivedi	Request for proof checking services for soil testing and civil work i/c MEP for construction of 1000 capacity single seated hostel for boys at IEST, Shibpur, Howrah	6,40,000/-
23	Prof. Raju Sarkar	Structural audit to make building seismically compliance at South Campus, University of Delhi	5,00,000/-
24	Prof. Amit Kumar Shrivastava	TPQA Central vista project division-5, CPWD, Room No. A-203, I.P, Bhawan, New Delhi	22,00,000/-
25	Prof. A. K. Gupta	Regarding third party quality assurance (TPQA) Services for central vista project division-5, CPWD	8,47,458/-
26	Prof. Munendra Kumar	Technical advice, civil division-VI, Irrigation and flood control department, Govt. of NCT of Delhi: Bharat Nagar, Delhi-110052	1,64,000/-

27	Dr. Ritu Raj	1. Vetting/Proof checking of structural drawing for proposed work-construction of G+3-SPS Office rooms above existing electric substation at DPSARU, New Delhi 2. Construction of Pucca School Building (G+3) with ancillary facilities including internal water supply, sanitary installations, internal electrical installation and development of sites, RWHS. STP, etc. at sector 05, Rohini 3. Construction of Pucca School Building (G+3) with ancillary facilities including internal water supply, sanitary installations, internal electrical installation and development of sites, RWHS, STP, Furniture etc. at Sector 18, Rohini (Sh: civil and electrical composite work) 4. Material testing for foot over bridge on 60 M & 45 M Master plan road at Dwarka	3,21,097/-
28	Dr. Ritu Raj	1. Requirement of design mix for M30 with flyash grade of concrete 2. Requirement of design mix for M25 with flyash grade of concrete 3. Design of Job mix formula for DBM and DBC 4. Design mix for RMC M10, M15, M25 and Job mix formula of DBM and BC 5. Construction of 600 units 2BHK social housing units in hulhumale, republic of Maldives (Pkg-1) mix design Reg.	5,32,180/-
29	Prof. Raju Sarkar	Regarding third party inspection/quality assurance work for F-51, PWD, GNCTD, Opposite IGI Stadium Gate No-9, New delhi-110002	61,06,373/-
30	Prof. Raju Sarkar	Structural audit of building vested with Delhi cantonment board, Delhi	10,00,000/-
31	Dr. Ritu Raj	1. Proof checking of following structures a. Double story colony hospital at Lajpat Nagar, New Delhi b. Four under ground tanks with pump houses in Bihar 2. Structural drawing proof checking through DTU for Beverly park housing project at Amritsar and Zygon commercial at sector 62 Noida 3. Structural drawing proof check through DTU for Cm rise school at Gujar Badria, Malhargarh, Bichua, Garoth and Sabakheda 4. C/o 72 Nos equivalent rooms (G+3) including internal electrical works sanitary installation, water supply, firefighting and external development works etc., at SPS-10 industrial area phase -V, Rohini, Kirari, Delhi 5. Vetting of structural design and drawings of temporary aluminum tensile shed structure of 50m x 60m size with 50m clear span 6. Proof checking of structural drawing for construction of Pucca school building (G+3) with ancillary facilities including internal water supply, sanitary installation, electrical installation and development of site etc. at vacant land of F1 & F2 Block Sunder Nagri, Delhi	3,86,760/-
32	Prof. Narendra Kumar	Regarding permission to conduct third party quality checking of the development works at IA Trans Delhi Signature city Ghaziabad and IA Surajpur, Gautam Budh Nagar	1,38,618.64/-
33	Mr. Gour Anunay Ashok kumar	Upgradation and comprehensive operation and maintenance of 40 MGD Rithala Phase -II	9,09,553/-

34	Prof. Amit Kumar Shrivastava	Construction of 184 Multi storied flats for Hon'ble MPs at BKS Marg, New Delhi 2. Construction of buildings (two basements+stilt+23 floors+one fire refuge floor and amenity block (G+5) including civil, electrical, horticulture works on EPC Basis	2,41,39,965/-
35	Dr. Ritu Raj	Construction of executive enclave in plot no.36 and 38, new Delhi including O&M and housekeeping for 5 years	3,00,000/-
36	Dr. Ritu Raj	Regarding third party quality audit for the work of C/o additional SPS Type class rooms at various schools under Priority-II Education Maintenance division (East & north east) PWD	24,92,316/-
37	Dr. Ritu Raj	1. Preparation of design mix of M 30 grade cement concrete. Construction of Utsav sithal with toilet block and utility block at CBD Shahdara Delhi 2. Regarding proof checking of structural drawing for various structures to be constructed at development, rehabilitation/ rejuvenation of trunk drain no 2 and trunk drain no.5 at Dwarka, New Delhi, under nazul A/c-II. 3. Construction of sports hostel along with Gymnastic and swimming pool at Pitampura Delhi 4. Vetting of the structural design of boundary wall GGSIPU east campus 5. C/o Nos. Equivalent rooms (G+3) including internal electrical works 6. Construction of 600 units (2BHK) Social housing units in hulhumale	5,93,520/-
38	Dr. Ritu Raj	Finishing, furnishing interior work I/c furniture, E&M Services and Horticulture works at EPFO Office, East Kidwai Nagar, New Delhi	6,00,000/-
39	Prof. Raju Sarkar	Investigation and evaluation of various roads under north west road-1 division, PWD Mukarba Chowk	6,50,000/-
40	Prof. Raju Sarkar	Third party quality check for CD-IX, I&FC Department (6)	3,30,281/-
41	Dr. Ritu Raj	1. Construction of A type school building, boundary wall, retaining wall, ramp for differently abled person and other development work etc. for Kendriya Vidyalaya, Bhimtal, Distt. Nainital 2. Additional SPS class rooms in existing premises of govt. School of Directorate of Education 3. Construction of Pucca school building G+3 with ancillary facilities including internal water supply, sanitary installations, internal electrical installation and development of sites, RWHS, STP, etc. at Sector-5, Rohini	2,99,500/-
42	Dr. Ritu Raj	Third party quality assurance Irrigation and flood control department, New Delhi	60,52,383/-
43	Mr. Himanshu	Material testing LNJP Hospital, Delhi	2,00,000/-
44	Dr. Ritu Raj	1. Conducting design mix of grade M30 M40 2. Construction/Rectification of balance works/left out works of leisure valley-vernona height on as is where basis mix design for M25, M30, M35, SCC, M40, M40 SCC, M45 Scc, M50 SCC, M60 SCC 3. Recarpeting of najafgarh road from Raja Garden to Uttam Nagar T Point under Division WR-1, PWD, New Delhi (Balance work)	6,62,000/-

45	Prof. Raju Sarkar	Regarding Third Party Quality Check consultancy projects for CPWD Safdarjung Hospital	21,95,047/-
46	Dr. Ritu Raj	1. Construction of auditorium including civil and MEP Services on engineering, procurement and construction (EPC) basis at old horse line, LBSNAA, Mussoorie, 2. Construction of academic block-4 at Amity University Campus, Opposite Airport, Maharajpur, Gwalior, M.P 3. Construction of Hostel Building Block-1(G+3) with 8 No.s additional rooms(2 rooms at each floor level) for trainees at NSTI Campus, Haldwani, U.K 4. Mix formula for design mix of SMA, BC and Recycling pavement by cold milling 5. Mix formula for DBM and DBC Strengthening of Bipin Chandra Pal Marg, New Delhi under Sub-Division SER-25 6. Proof Checking of construction of 10 bedded hospital for 37th-bn, ITBP at Thiksey Leh, Ladakh	3,40,000/-
47	Dr. Ritu Raj	1. Strengthening of DDU Marg under Sub division-2/Division SRDP-I dg. 2022-23 2. Strengthening of JLN Marg and NS Marg under Sub division-2/ Division SRDP-I dg.2022-23 3. Strengthening of Lothium Road under sub division-I of Division SRDP-I dg. 2022-23	5,86,580/-
48	Prof. Raju Sarkar	Testing of road for improvement of riding surface for C&ND Road division M-413, PWD, New Delhi-110002	12,92,373/-
49	Prof. A. K. Haritash	Adequacy report for IFFCO-Aonla and IFFCO-Phulpur Plant, Uttar Pradesh	1,20,000/-
50	Prof. A. K. Haritash	Process vetting for upgradation of Delhi Jal Board Sewage Treatment Plants from ASP-Based technology to IFAS-Technology	7,20,000/-
51	Dr. Ritu Raj	TPQA for work of strengthening of Vandemataram Marg from Dhaula Kuan to Dayal Chowk and Shankar Road from Pusa Chowk to Shankar Chowk under PWD Division South West Road-1, Sub Division-IV New Delhi	2,68,818.64/-
52	Dr. Ritu Raj	Construction of Mega Boys Hostel G+3 including and external Civil, electrical and mechanical services, development works and all ancillary buildings on EPC Basis at NIT, Srinagar, J&K	22,00,000/-
53	Dr. Ritu Raj	1. Cube Sample Testing 2. Construction of A-1 type school building i/c boundary wall etc. and internal electrical installation, fans, fire alarm and firefighting system, solar photo voltaic power generation 3. C/o office cum studios building with single basement, ground floor +5 story 4. Design mix/job mix formula 5. Digital survey building of lady reading health school, Delhi	6,49,000/-
54	Prof. Amit Kumar Shrivastava	Design mix for granular sub base and wet mix (WMM) and concrete mix design	7,50,000/-
55	Prof. A. K. Haritash	GPI Inspection 2022-23 by technical institutes in main stem states of river Ganga and Yamuna	45,85,000/-
56	Prof. A. Trivedi	Design mix of ready mix concrete of grade M25 and M15	1,00,000/-

57	Prof. Munendra Kumar	1. Proof checking of construction of SPS (4 Story) for additional classroom at Karampura campus of Dr. B. R. Ambedkar University, Delhi 2. Self-compacting concrete mix design for the concrete of grade M30 & M40	1,00,000/-
58	Prof. T. Vijay Kumar	Regarding third party quality assurance for the work under CPWD, Gwalior central division, Gwalior	14,59,501/-
59	Prof. A. K. Gupta	Regarding third party quality assurance for the work "Strengthening of various roads under PWD Division North West Road-1 under sub division NWR-12	18,10,000/-
60	Prof. Munendra Kumar	1. Vetting of structural design and drawings of expansion of Dwarka campus under phase-II 2. Structural designing and preparation of structural drawings in respect of c/o phase B works at JNV Papumpare, Arunachal Pradesh 3. Structural Designing and preparation of structural drawings in respect of C/o Kendriya Vidyalaya at Daporijo	20,77,083/-
61	Sh. Himanshu Singh	Proof checking of design, drawing and MEP services of various consultancies	20,64,000/-
62	Dr. Ritu Raj	Structural audit of Tihar Jail residential quarters at Tihar jail complex, New Delhi	40,00,000/-
63	Sh. Himanshu Singh	Proof checking of MEP services, material testing and design job mix of various consultancies	6,55,000/-
64	Sh. Gour Anunay Ashokkumar	Material testing, design mix, construction and structural design of various consultancy works	27,32,551/-

## 10. Industrial Research and Development (IRD)

The IRD cell is the backbone of the research and development activities of the university and is responsible for policy formulation and monitoring of student's research at Bachelor's, Master's and Doctoral level. The department strives to promote Research & Development, creation of intellectual property, filing of patents maintaining the data base of the research publication by the faculty member and students. The Research Excellence awards given annually to the researchers of the University is coordinated by the IRD department.

The department also coordinates the work of DTU research fellowship, given to different faculty members who do not have any external research funding. During the year 2022, 394 research papers were awarded with the Research Excellence Awards under different categories.

The h-index of Delhi Technological University in academic year 2022-2023 was 108 as reported by Scopus. The total number of publications from DTU were 1072 for year 2022-2023.

### Organization Structure:

**Prof. Pragati Kumar**  
Dean

**Prof. Roli Purwar**  
(Associate Dean)

The 6<sup>th</sup> research excellence award along with 1<sup>st</sup> citation award was organized on 6<sup>th</sup> April, 2023. The chief Guest of the program was Prof. T. G. Sitharama, Chairman All Indian Council for Technical Education (AICTE). Prof. Pragati Kumar has welcomed all the dignitaries and research awardees. He has insight about the procedure of both

research excellence and citation award. In his address he said that the university instituted Research Excellence Awards in 2017. The purpose of the awards was to encourage and promote research culture among students and faculty members in all the disciplines of the university and to celebrate individual excellence in research. The first research excellence awards were presented to 82 research papers meeting the eligibility criteria for the awards in the year 2018. For 6<sup>th</sup> Research Excellence Award, applications were invited in the month of December, 2022. **Total 542 papers from 327 applicants** were received from all the departments of main campus and USME, east campus. **117 faculty members and 210 students** applied for various categories of award. To scrutinize, bulk number of papers, 21 members committee representing all 14 departments of main campus and east campus was formed. Every committee member checked at least 60 papers. He has also given insight on citation award. In the year 2021, University has instituted citation awards for researchers whose work have been cited by scientific community in the world. The citation awards are based on the researcher's profile on SCOPUS. There are three categories of citation awards. The first category of award is (i) Cumulative citation award which is further divided in three subclasses (i) Platinum (ii) Gold and (iii) silver. Cumulative citation award: Platinum, will be given to the researcher with cumulative citation of **5000**. (ii) For Cumulative citation award: gold, researcher must have cumulative citation of **2500**. For third sub class, cumulative citation award: silver, research must have cumulative citation of **1250**. The second category of

award is Highly Cited paper award. The criteria for this award is

1. The paper should be in affiliation with DTU as first/second/corresponding author
2. The individual paper should have citation twice the h-index of DTU. The h-index of DTU in the month of December, 2022 was 97.
3. The paper should be SCI/SCIE/SSCI indexed and,
4. There is no Article Processing Charges (APC) paid for publishing the paper.

The third category of citation award is Yearly Citation award. Any researcher of the university, obtaining total citations above 200 in the citation year as reported on Scopus. The researcher should be on the roll of the university in the citation year.

Certificate of appreciation is given for these awards. Cumulative citation award and highly cited paper awards are given once in lifetime. Yearly citation award is presented annually.

For Citation awards, Applications were invited in the month of January, 2023. The committee considered Assessment year 2023 and Citation year 2021 for these awards. Total 20 applications were received. Three rounds of meetings were held to scrutinize the applications. The first round of meeting was to understand the guidelines and set the parameters. The difficulty we faced while scrutinizing the applications was that researcher profile on scopus was not clean. We have requested the applicants, to clean their profile by removing the papers of other researchers. Our committee members have done marvellous job in scrutinizing these applications.

Prof. J. P. Saini has announced the results of 6<sup>th</sup> Research excellence award. Total **385** research papers are being awarded under various categories with award money of ₹ **1.52** crores. There are **17** publications in premier research award category and **377** in commendable research award category.

### Premier Research Excellence Award

Department	No. of Papers
Electrical Engg.	4
Electronics and Communication Engg	4
Applied Mathematics	3
Computer Science and Engineering	2
Environmental Engineering	2
Information Technology	1
Mechanical engineering	1

### Commendable Research Excellence Award

Department	No. of Papers
Applied Physics	77
Mechanical Engineering	49
Electronics and Communication Engg	46
Computer Engg	44
Biotechnology	28
Civil Engineering	26
Electrical Engg.	22
Applied Chemistry	21
Applied Mathematics	21
Information Technology	16
Environmental Engg	13
USME	06
DSM	05
Humanities	02
Software Engg.	01

In 1<sup>st</sup> edition of citation awards, 5 researchers receiving cumulative citation award under Gold category, 7 researchers receiving cumulative citation award under Silver category, 4 researchers receiving Highly cited paper award and 17 researchers receiving Yearly Citation award are being felicitated.

Prof. T. G. Sitaram has highlighted about the importance of research to enhance the ranking of the University. His gracious presence and words of wisdom have truly inspired all the young researchers and the DTU Fraternity.



## 11. Internal Quality Assurance Cell (IQAC)

The Delhi Technological University, Delhi has emerged as one of the premier Technological institutions of our great country with state-of-the-art facilities, world class education, training, research and consultancy in the arena of engineering and technology, applied science and management and has become fully networked with industries on one hand and the academic and scientific community in the world on the other. As an internal mechanism for sustenance, assurance, and enhancement of the quality culture of education, Delhi Technological University (DTU) has established the Internal Quality Assurance Cell (IQAC) for maintaining the momentum of quality consciousness.

DTU-IQAC, in fact, is conceived as a mechanism to build and ensure a quality culture at the University level to meet the diverse needs of the stakeholders. The DTU-IQAC is meant for planning, guiding and monitoring Quality Assurance and Quality Enhancement activities of the University. The IQAC channelizes and systematizes the efforts and measures of the University towards academic excellence and is facilitative and participative organ of the University.

The DTU-IQAC is a driving force for ushering in quality by working out intervention strategies to remove deficiencies and enhance qualities.

### Organization Structure:

Name of Faculty	Designation
Prof. Neeta Pandey	Director
Dr. Shilpa Pal	Associate Director
Prof. Girish Kumar	Coordinator
Prof. Anil Kumar	Coordinator
Prof. Poornima Mittal	Coordinator

Dr. Prashant Giridhar Shambharkar	Dy. Coordinator
Dr. Harikesh	Dy. Coordinator
Dr. Manjeet Kumar	Dy. Coordinator
Mr. Yashdeep Singh	Dy. Coordinator

### Activities under IQAC:

- Major Works of Internal Quality Assurance Cell (IQAC) can be summarized as:
- Development and application of quality benchmarks/parameters for the various academic and administrative activities of the University.
- Facilitating the creation of a learner-centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
- Arrangement for feedback responses from students, parents and other stakeholders on quality-related institutional processes.
- Dissemination of information on the various quality parameters of higher education.
- Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
- Documentation of the various Programmes/activities of the College.
- Acting as a nodal agency of college for coordinating quality related activities, including adoption and dissemination of good practices.
- Development and maintenance of institutional database through MIS for the purpose of maintaining /enhancing the institutional quality.
- Development of the Annual Quality Assurance Report (AQAR) of the College based on the quality parameters/

assessment criteria developed by the relevant quality assurance body (like NAAC, NBA, AB) in the prescribed format.

- Bi-annual development of Quality Radars (QRs) and Ranking of Integral Unites of Colleges based on the AQAR.
- Interaction with SQACs in the pre and post accreditation quality assessment, sustenance, and enhancement endeavors.

### Responsibilities and Authorization of IQAC:

- Preparation and control of quality system documents
- Organizing training in quality system, ensuring that the employees understand the quality policy, objectives and working of the installed quality system.
- Planning and implementation of internal quality audits.
- Maintaining the quality system and reporting on its functioning: implementation of all corrective and preventive actions.
- Liaison with the external agencies/bodies on matters related to quality system.
- Arranging for Management Reviews.
- Maintenance of Records of the operative Quality System and its constituent documents.
- Coordinate all Quality initiatives such as NAAC, NBA, QS ranking etc. on behalf of the University.
- Feedback collection from students and other stakeholders and its analysis.

### IQAC is Committed to -

- Ensure Internalization of the Quality Culture
- Ensure clarity and focus in Institutional functioning towards Quality Enhancement.

- Ensure Enhancement and Co-ordination among various activities of the institution and institutionalize all the good practices.
- Provide a sound basis for decision-making to improve institutional functioning.
- Act as a dynamic system for quality changes in HEI

### Activities conducted during current academic year:

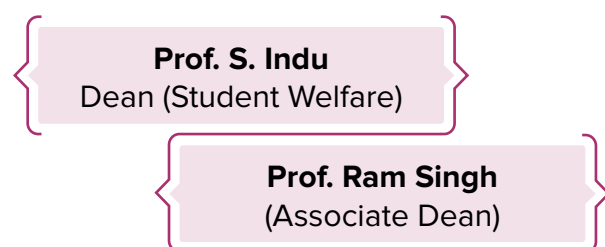
- Internal Academic and Internal ISO audit during 17<sup>th</sup> – 18<sup>th</sup> October, 2022.
- QMS auditors training course by STQC during 19<sup>th</sup> – 21<sup>st</sup> July, 2023.
- 5<sup>th</sup> IQAC External meeting on 24<sup>th</sup> May, 2023
- 3 UG & 2 PG Programs NBA Accreditation during 31<sup>st</sup> March to 2<sup>nd</sup> April, 2023
- The AQAR for the academic year 2021-22 submitted on the NAAC portal during 2022-23.
- Preparation and publication of Annual Report for the academic year; 2021-22.



## 12. Student Welfare, Societies and Extracurricular Activities

The Dean of Student Affairs handles all matters related to student life. The student activities are the essence in students' life while in the University campus. DTU offers a large number of activities and a student can find an interest group corresponding to almost any extracurricular activity. The Dean Student Welfare Office facilitates the students to undertake various activities of their interest. The entire work of student activities is being governed by various provisions of the Act, Statutes, Ordinances and Rules & Regulations made therein by the authorities of the DTU, established by Govt. of NCT of Delhi vide Act of 6 of 2009.

### Organization Structure:



The University provides travel grant to students for participating in events like Hackathon, MUN, important meetings (other than innovative project competitions). The event must have participation from reputed academic institution. The University provides 50% air fare, visa and registration fees subject maximum of ₹ 75,000/- per student for international event

and ₹ 25000/- for national event. Maximum number of students attending an event is two only. This facility is given only for once during the period of course of the participant.

### DTU Mitra:

The DTU Mitr Helpdesk is an information dissemination center functioning under the office of DSW where students can submit his/her queries. The helpdesk forwards the queries raised by the students to the respective branch.



### Name of Societies/Councils/Students Chapters/Clubs:

S. No.	Name of Society	S. No.	Name of Society
1	ACS-Student Chapter	26	QUIZ CLUB
2	BHANGRA	27	YES + HAPPINESS
3	TATVA	28	INNOVA DTU
4	DTU - NSS	29	IOSD

5	SAHITYA	30	PARCHHAYI
6	VIBE	31	SITE
7	YUVAAN	32	CSI-DTU
8	SCEE	33	SSE-DTU
9	D_CODER	34	CURIE- Research Promotion Society
10	ASSETS	35	MADHURIMA - The Music Society
11	IEEE	36	ENACTUS
12	E – CELL	37	GYI
13	NRITYANGANA	38.	ELIXIR
14	IGTS- DTU	39	DEBATING SOCIETY
15	PANACHE	40	COSMOLOGY CLUB
16	ROUND TABLE	41	JIJNASA
17	PRATIBIMB	42	DTU- Consulting Group
18	KALAKRITI	43	NCC
19	DTU - Super mileage	44	LET' TALK
20	TEAM RAFTAAR	45	QUAD -DTU
21	Codechef DTU	46	Film Club
22	SR DTU	47	DELTECH MUN
23	180 Degrees Consulting DTU	48	IAStructE DTU Student Chapter
24	SAE-DTU	49	CULTURAL COUNCIL
25	REFLECT DTU	50	DTU Sports

## Major Students' Events in 2022-23 conducted by Different Societies

### Cultural Council DTU:

#### AARAMBH'22

Cultural Council of DTU organized an orientation program during 16<sup>th</sup> – 18<sup>th</sup> December, 2022 to welcome newly admitted students. This event was a vibrant and diverse celebration of talent, camaraderie, and creativity. It was a way for students to meet other students, become familiar with campus services and get to know about Cultural Societies through individual presentations.

#### 1<sup>st</sup> ANNUAL FLOWER SHOW AND COMPETITION

The 1<sup>st</sup> Annual Flower Show and Competition at DTU was a spectacular three-days event held from 9<sup>th</sup> to 11<sup>th</sup> March,

2023. This inaugural event celebrated the beauty of nature with a burst of colors and fragrances. The campus was transformed into a mesmerizing garden, featuring a stunning array of floral species.

#### SANEDO'22: DANDIYA NIGHT

The Sanedo'22: Dandiya Night was a two-days extravaganza that celebrated Indian classical dance and music. It was held during 20<sup>th</sup> - 21<sup>st</sup> September, 2022, left everyone enthralled and immersed in the rich traditions of our country. The event commenced with the beat of dandiya sticks and the swirling of colorful traditional attire transforming the campus into a lively and joyous atmosphere with full of traditional folk music.

**FAREWELL'23**

The much-awaited Farewell'23 at DTU unfolded over two splendid days, offering a unique and memorable experience for the graduating class. The event was held on 28<sup>th</sup> and 29<sup>th</sup> April, 2023 celebrating the end of an era and the beginning of new journeys.

**G20 FOOD FESTIVAL'23**

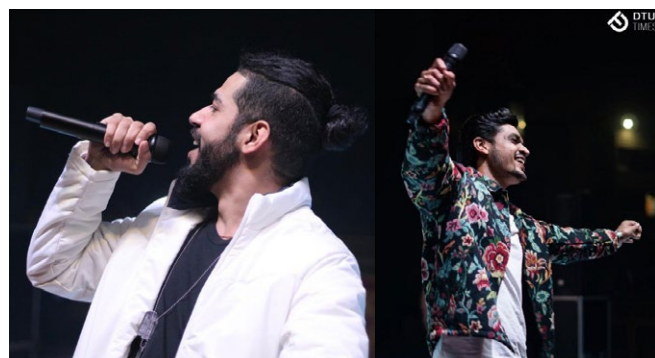
The Food Festival held on 5<sup>th</sup> September, 2023 showcased the diversity of global cuisines. Student teams representing different countries presented authentic dishes, offering attendees a unique opportunity to embark on a sensory journey around the world. Beyond the culinary offerings, the event featured cultural displays, performances, and interactive sessions, enabling participants to gain a holistic understanding of the countries and cultures being celebrated.

**G20 AKASHWANI PUBLICITY PROGRAM'23**

The cultural event jointly organised by Akashwani and the DTU on 23<sup>rd</sup> August, 2023 was a captivating showcase of diverse talents and performances symbolizing the unity of creative forces.

**ENGIFEST'23**

The much-awaited and hyped festival of DTU, Engifest'23 betided in all its glory and fanfare during 17<sup>th</sup> – 19<sup>th</sup> February, 2023. The extravaganza sprawled with many events, debates, paintings, and concerts with excitement and fun.



## NSS DTU:

### 'AGRANI' NEWSLETTER LAUNCH: 18<sup>th</sup> January, 2023

The National Service Scheme (NSS) of DTU successfully organised an inaugural event to launch its newsletter for the upcoming academic year. The event was held in the B. R. Ambedkar Auditorium, DTU, and was attended by over 200 students. Agrani: means leadership; encompasses how NSS has been spearheading a multitude of initiatives, leaving no stone unturned. The occasion was also graced by the benign presence of Prof. Nitin Puri, Chairperson, NSS DTU and Prof. Anamika Chauhan, Faculty Coordinator, NSS DTU.



## ASSETS DTU:

ASSETS-DTU is the Finance and Investment Society of DTU. A.S.S.E.T.S. stands for, Accounting Skills and Stock Exchange Training Society. ASSETS was initially started to nurture financially prudent students and start an investing culture. ASSETS is a society that focuses on imparting a basic understanding of how to manage your money. Our vision is to create the next generation of smart and financially prudent individuals and we are on the path to spreading financial literacy.

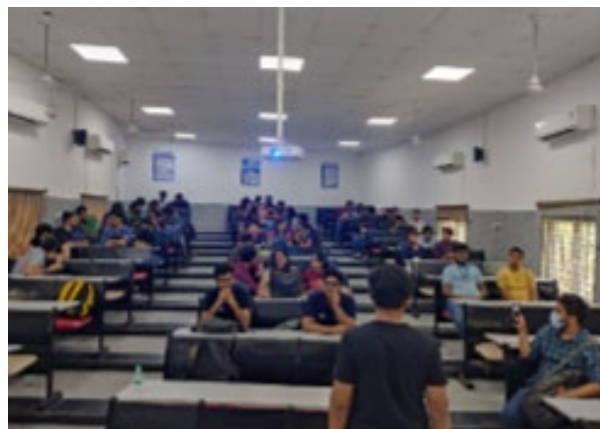
## FORTUNE 22

Fortune is the Finance fiesta organized by ASSETS-DTU annually that includes several interesting, fun-filled, and educating finance-related events in the online and offline mode as well. Following events were organized in FORTUNE 22.

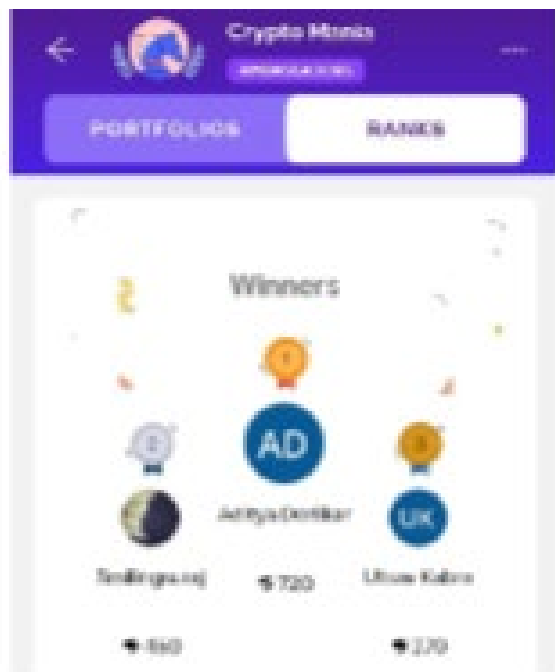
- Bulls and Bears of Bollywood - Mock Stocks (Real time) Stocks
- Clean Sweep - IPL Bidding
- FinWhizz - Financial Quiz
- Fin-O-Hack - Finance Hackathon
- Guess It mates - Guesstimates
- Straight - Up Valuation - Startup Valuation
- Mania 2.0
- Crypto Mania - Mock Crypto
- Shark Tank Conference



**Bulls and Bears of Bollywood**



**Clean Sweep**



Shark Tank Event

### BAND NIGHT

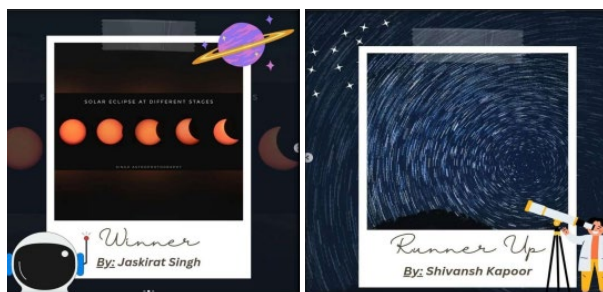
The Finance fiesta was ended with an extravagant, energizing and heart capturing performance by the renowned The Antriksh Band led by Varun Rajput. There was an exuberant crowd of more than 5,000 students. There were various food stalls with a plethora of cuisines which was appreciated by the audience.



### Cosmology Club:

#### BIG BANG 2023

Cosmology Club of DTU organized “Big Bang 2023”, a one-day fresher’s event providing everyone with fun but learning experiences. The students were addressed by the faculty, who welcomed the students and gave them an introduction to the academic discipline. Speakers Mr. Sunny Kabrawala and Mr. Mayank Jariwala from STAR (Space Technology and Aeronautical Rocketry) arouse the curiosity of students towards SPACE and Rockets by sharing their work. The major objective of the program was to make students aware about the Cosmology Club, about their work and encourage students to join them to further explore the world beyond our home. The event covered 1. Talk from prominent professionals, 2 Astra-Lens; an astrophotography contest, 3 Curiosity Games and 4. Quizes.

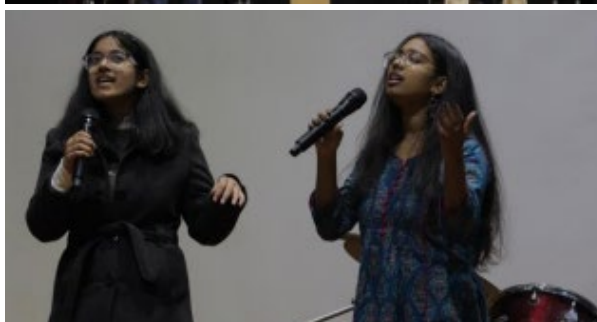


## Madhurima - The Music Society:

**CADENECE by Madhurima on February 5<sup>th</sup>, 2023**

The students of Madhurima have successfully conducted the annual intra-society music competitions for the new recruits. There was a participation of 58 students from B.Tech., B.Des. and B.Sc.

Courses. There were a total of 118 members in the event. The competition was held in 3 categories i.e., Indian Vocals, Western Vocals and Instrumental. Refreshments were arranged by the society for the participants, judges as well as the audience members. Participants have showcased their extraordinary talent and made it a memorable day.



## American Chemical Society- Student Chapter DTU:

### NATIONAL YOUTH DAY EVENT

American Chemical Society-Student Chapter, DTU celebrated the Birth Anniversary of Swami Vivekanand as National Youth Day, on the 12<sup>th</sup> January, 2023. The chapter successfully organized a seminar with the theme of Youth Empowerment Through Science and Technology at Pragyan Hall, administrative block, DTU. The eminent speakers were Mr. Sankalp Suman- National Youth Icon'22, co-founder, OffsetGo, and Dr. Kunal Gupta- Outreach Manager, ACS membership.



## IEEE DTU:

### EVENT DELHI PRELIMS FOR COGNIZANCE

Faculty Advisor: Prof. J. Panda, ECE

Cognizance 2023, a two-day Delhi Prelims, was held during 21<sup>st</sup> and 22<sup>nd</sup> January, 2023, in collaboration with DTU. The event consisted of workshops on Machine Learning and the Internet of Things, along with a range of exciting events including Mindsweeper, MUN, Design Quest, and Techzibition. The workshops provided a comprehensive understanding of the concepts, tools, and techniques involved in these fields. The participants were given hands-on training on various machine

learning algorithms and also got an opportunity to work on real-life IoT projects. Apart from the workshops, the prelims had several events to keep the participants engaged. Mindsweeper, a technical quiz competition, tested the participants' knowledge of various technical concepts, and the top three winners were awarded prizes.



### TECHWEEK'23

IEEE DTU organized the "IEEE DTU Techweek'23 which is a series of technical workshops and hands-on experience of project making" for students of DTU & Non-DTU universities like IIITD, IGDTUW, NSUT, USICT, MAIT etc, from 16<sup>th</sup> to 20<sup>th</sup> January, 2023 with modus operandi being offline and free of cost for students. TechWeek is the annual workshop galore organised by IEEE DTU which offers budding engineers an insight into the various new and upcoming technologies. Workshops organized during TechWeek introduce technologies to students and intent to stimulate their interest in cutting edge technologies of today. The total registration count for the

event was close to 1500 registrations from all over colleges in Delhi.



Numerous events organized during Yuvaan'23 with huge participation are as follows:

### Yuvaan'23:

The three-days Yuvaan Literature and film festival was organized during 10<sup>th</sup> – 12<sup>th</sup> February, 2023. The inauguration ceremony was attended by several dignitaries, including CHIEF GUEST Vice Chancellor, J. P. Saini, Director National School of Drama Dr. Ramesh C. Gaur, Registrar Prof. Madhusudan Singh, and DSW, CONVENOR and CO convenor, faculty staff and students.



- Turncoat Debate
- Comedy Rumble
- Swan's Soapbox
- Rap Battle
- Surat-ae-Canvas Event
- Just A Minute
- Wordsmith Unplugged
- Empowering Women Entrepreneurs
- Slam Poetry with Nidhi Narwal
- Magician Event
- Talk show with Gopal Dutt
- Izhar: Event Type: Hindi Slam Poetry Competition
- Event - Fable's & fabrication
- Event Silken Temptations
- Farzi Mushaira
- Short Film Making
- Qawwali Night



## DTU Chemical Society - Student Chapter DTU:

### KALAKRITI

The Creative Arts Society of DTU provides a platform for a wide range of artists with different perspectives on art to unite their creativity - in short, it is a place where visual art encourages imagination and creative thinking.

### RIWAAYAT

On 6<sup>th</sup> April, 2022, the Society conducted an inter-college Art Exhibition, in association with STAEDTLER, Career Launcher and NAMO FIBERS, in which 20 art societies from colleges from DU circuit and Universities across the Delhi NCR participated. The societies got the opportunity to showcase their artworks and creativity to the artistic enthusiasts out there. Being one of the biggest creative and fine arts societies in the north, Kalakriti has been able to successfully hold the exhibition in front of a huge audience.

The Winner of the Exhibition were, 1. Adwitya (Miranda House), 2. Team Sanjhi (DCRUST) and 3. Cridor (College of Vocational Studies).



## Round Table:

Skill Development Society of DTU organized a number of events during the period.

### WEB3 CONFERENCE

This one-day event covered numerous expert talks including; Mr. Tanay Mehta on “open-source machine learning”, Mr. Sahil Kalyani on “UI/UX personalization using Firebase Remote Configuration”. Mr. Soneshwar Singh on “UATU and blockchains”, Mr. Kanishk Khurana’s on “Kickstarting Dapp development”, Mr.



Sanket Agarwal on “Web3 in cybersecurity” and Mr. Manish Dwibedy on “IoT development using ESP32”. All the talks were very informative and the focus was on how to move from being a user of open-source machine learning tools to becoming a contributor to the community.

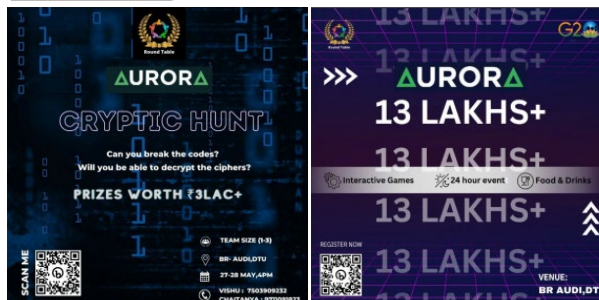


### CRYPTIC HUNT

“The Cryptic Hunt” was a 24-hours mind-bending challenge hosted by RoundTable DTU. The event aimed to engage participants in a relentless puzzle-solving marathon, testing their problem-solving skills and pushing their mental boundaries. Teams competed to crack codes and win fantastic prizes. “The Cryptic Hunt” was held during 27<sup>th</sup>-28<sup>th</sup>, May 2023 at the Raj Soin Hall, DTU.



### EVENT POSTERS



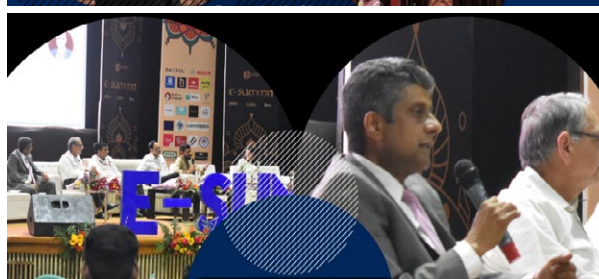
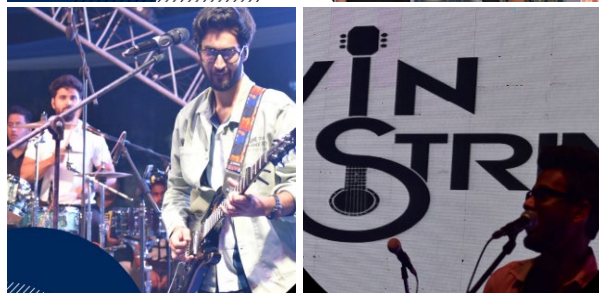
## Entrepreneurship Cell, DTU:

E-cell, DTU is a team of enthusiastic individuals striving to change society by aiming to bridge the gap between theoretical knowledge and practical applications of contemporary ideas. E-Cell DTU acts as an outlet for entrepreneurial thought processes, zeal and energy in order to transform ordinary minds into dynamic young individuals. Under the Guidance of Faculty Advisors, Mr. Anup Mandpura and Mr. Sanjay Patidar, The team at E-Cell DTU has been able to put their best foot forward and instil the required entrepreneurial mindset in the youth by organising multiple Events:

### E'SUMMIT

E-Summit 2022 by E-Cell DTU (14<sup>th</sup>-15<sup>th</sup> December, 2022) stood true to its popularity as the largest entrepreneurship promoting event of Northern India. Following events were organized during E-Summit 2022.

- Talk Show by Mr Ashneer Grover (Ex-Founder BharatPe)
- Content Creator Summit
- Band Night
- Startup Internship & Job Fair
- Startup Socials



## Sports Events:

### NORTH ZONE INTER-UNIVERSITY BASKETBALL (M) TOURNAMENT 2022-23

**NORTH ZONE INTER-UNIVERSITY BASKETBALL TOURNAMENT** organized by Association of Inter Universities (AIU) concluded at **Jamia Millia Islamia University, Delhi** was held successfully from 25<sup>th</sup> December 2022 to 28<sup>th</sup> December 2022, it was an Interuniversity Tournament where over 80 universities were expected to take part in the Tournament. Basketball players along with Coach Sh. Mahaveer from Delhi Technological University participated in the tournament and managed to win two consecutive rounds from Uttarakhand Technological university and Kumaoni University, Nanital held on 25<sup>th</sup> December 2022 and 26<sup>th</sup> December 2022 respectively. The team played exceptionally well on court but got knocked out on 27<sup>th</sup> December 2022 from Amity university, Noida.



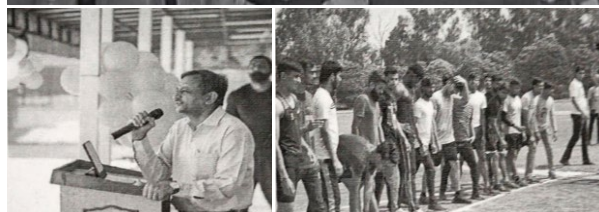
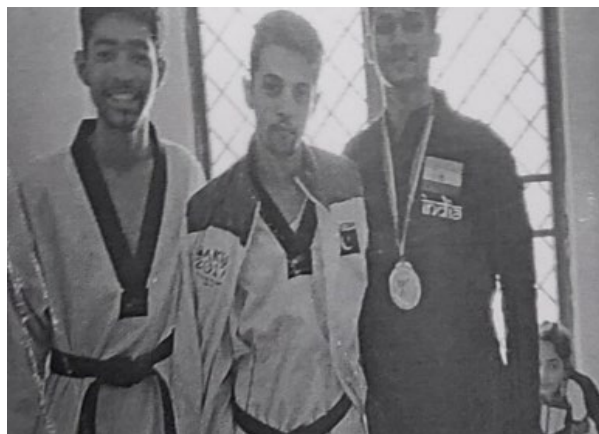
### National Team Sparring Tournament and Champions League

National Team Sparring Tournament and Champions League was held on 16<sup>th</sup> September to 18<sup>th</sup> September 2022 and it was organized by Taekwondo Federation of India where players from all over India participated and was a national level event. The event was held in Campal Indoor Stadium, Panaji, Goa. A student of DTU Participated in the Tournament and managed to secure Gold Medal (57 Kg, Senior, Male) in the Tournament and made DTU Proud on a national level by showing off his Taekwondo skills and acing in the tournament.



### 1) National Sports Day Events (29th August 2022)

On the occasion of **National Sports Day** on 29<sup>th</sup> August, celebrating the spirit of sportsmanship and commemorating the birth anniversary of national hockey legend **Major Dhyhan Chand**, famously known as "The Wizard", the **Sports Council of DTU** organized various sports activities for the students and stakeholders. With the **Registrar Sir** being the **chief guest** of the event, it was a huge success.



### UNITY RUN

On the 31<sup>st</sup> of October 2022 the DTU sports council organized the Unity run to celebrate the occasion of National Unity day. The day is celebrated to mark the birth anniversary of Sardar Vallabhbhai Patel who had a major role in the political integration of India. The event was organized in the esteemed presence of the chairman of the DTU sports council, RC Singh sir, and all its other members. The event witnessed the participation of enthusiastic students from various departments of the college.



## UGANDA INTERNATIONAL CHALLENGE 2023

Uganda International Challenge was held from 22<sup>nd</sup> – 26, February 2023 at the capital city Kampala and it was organized by Badminton World Federation where players from all over the globe from more than 50 countries participated and was a very prestigious International level event. Shashwat Dalal (2K20/CO/422) from DTU currently ranked 382 in the World Badminton Rankings got an amazing opportunity to participate in the tournament full of great players from all over the world and performed brilliantly in the Tournament and made DTU Proud on a global stage by defeating very higher ranked players in the world including some OLYMPIANS and his performance list included defeating:

1. World No. 194 in Round 1.
2. World No. 390 in Round 2.
3. World No. 212 in Round 3.

With this performance of Shashwat Dalal, he went up from 647 to 382 in the World Ranking by whooping 265 places and also earned him an invitation from badminton OCEANIA to participate in Northern Marianas International Challenge and Saipan International Challenge 2023 to be held in June, 2023 and more amazingly DTU is even more proud as these international tournaments will be qualifying tournaments for Paris Olympics 2024 which is historic for DTU.



### National Sports Day Events (12<sup>th</sup> January 2023)

National Youth Day was celebrated on 12<sup>th</sup> January, as a tribute to Swami Vivekanand on his birth anniversary for his immense contribution to India's freedom movement. He was one of the India's greatest spiritual and social leaders who himself personified the eternal energy of the youth and a restless quest for truth. On this occasion Sports Council of DTU organized various sports activities for the students and stakeholders in the presence of Prof. R.C. Singh and Prof. Ranganath M.S.



## 13. Central Facilities

### 13.1 Library

Library System of DTU consists of a central library and 15 departmental libraries which collectively support the teaching, research and extension programmes of the institute. All the students, faculty members and employees of the institute are entitled to make use of the library facilities on taking library membership. The library consists of huge collection of books on engineering, science and humanities. Initially setup in 1941, the central library moved to its Delhi College of Engineering library a 21<sup>st</sup> century

knowledge centre and to facilitate the transition of today's engineering society to a knowledge generated by the faculty and students of DTU has been digitized and made accessible through intranet of internet. Along with the automation of library services, we have moved towards the digitization of library resources, so that the services of Virtual library and knowledge centre may, be provided parallel with the traditional library.

#### Central Library Staff

<b>Librarian (01)</b>	:	Prof. Rachna Garg (Electrical Engineering)
<b>Deputy Librarian (01)</b>	:	Dr. M. Jayasimhadri (Applied Physics)
<b>Assistant Librarian (01)</b>	:	Dr. (Mrs.) Lalita
<b>Counter Assistant (04)</b>	:	1. Mrs. Taruna                      2. Mrs. Rampati Nain 3. Mrs. Neeru Vig                4. Mr. Abdul Aleem
<b>Library Attendant (01)</b>	:	Mr. Saudan Singh
<b>MTS (01)</b>	:	Mr. Om Veer

**Name of Integrated Library Management System (ILMS) : KOHA**

**Details of memberships/ Subscription:** DELNET

**No. of resources with full text access:** 38046

**Validity period:** 31<sup>st</sup> December, 2023

**Usages report from the service provide, If applicable:**

Below mentioned under electronic database

**Whether remote access provided? (Yes/ Not):** Yes

**Web link of remote access:**

<https://dtulibrary.remotexs.in/user/login>

**E-Journals/ Databases:**

S. No	E – Journals Databases	No of Journals	Usages (Full text downloads)
1	ACM	13	3138
2	American Institute of Physics	19	3016
3	American Physical Society	15	610
4	EBSCO Ultimate	3973	7306
5	IEEE/IEL	375	139911
6	Institute of Physics	86	7078
7	IWA Publishing Journals	12	2384
8	J-Gate	29640	453
9	Nature	1	2638
10	Oxford University Press	262	924
11	Science Direct	848	170646
12	Springer Link	1724	73261
13	Taylor & Francis Journal	1078	7962
<b>Total =</b>		<b>38046</b>	

**Electronic Databases:**

E – Databases	Usages
DELNET	29
Economic & Political Weekly	-
Engineering Village	148964
EPWRF	794
HBR	7468
ISID	-
JCR (Journal Citation Report)	5257
Prowess	2835
RemoteXs	11745
SciFinder	356327
SCOPUS	546756
Turnitin	37914
Web of Science	528848

**E-Books:**

S. No	Publisher	Numbers
1	Elgar (Management)	21
2	CBS (Envnt-20, Biotech-5, Civil-24, Elec-9, ECE-10)	68
3	Elsevier (Biotech-20, Chem-40, Civil-17, CSE-26, Electrical-37, ECE-26, IT-22, Envnt-36, Mechanical-71 & Physics-35) 10 depts	330
4	Pearson (Mech-363 & Management-27)	390
5	T&F (Elec-38, Envnt-25 & IT-26)	89
6	Videeya (General)	338
7	KopyKitab (General)	20
8	Wiley (Mix)	71
9	University Press/ Orient Black Swan (Civil-3, Envnt-6)	09
<b>Total =</b>		<b>1336</b>

**Details of annual expenditure for purchase of books and journals during the last five years (INR in Lacs):**

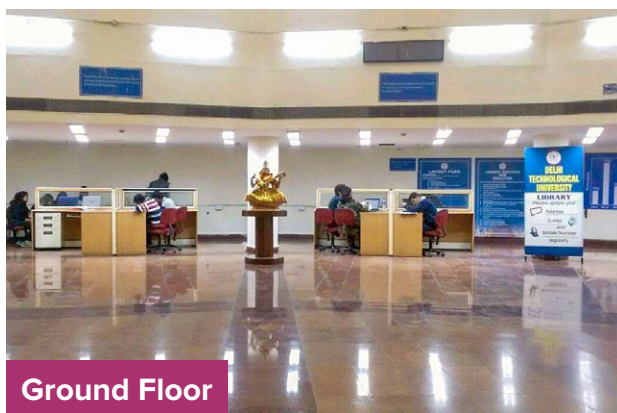
Year of expenditure	Expenditure on the purchase of journals in (INR)	Expenditure on purchase of books in (INR)	Expenditure on subscription to e-journals and other e-resources in (INR)
2022-2023	2,90,406.00	4,02,379.00	3,83,24,444.00
2021-2022	1,58,827.00	4,17,264.00	3,49,40,913.00 for e-journal + 1,36,080.00 for e-books
2020-2021	1,05,058.00	39,90,632.00	6,00,84,836.00 for e-journals + 44,06,910.00 for e-books
2019-2020	2,18,597.00	57,61,881.00	1,19,25,144.00
2018-2019	2,22,143.00	58,16,766.00	2,48,24,843.00



Library



Library Entrance



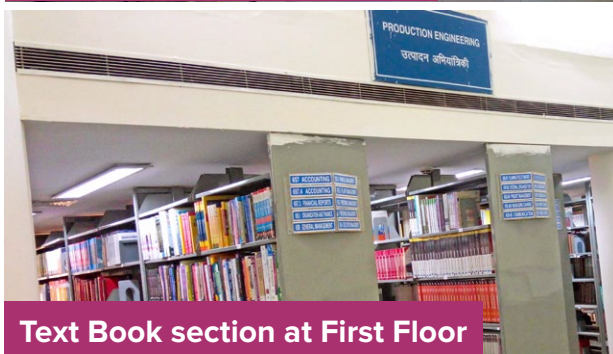
Ground Floor



Reading Room at First Floor



Magazines and newspaper section at Second Floor



Text Book section at First Floor



Book Bank at Second Floor



All 3 Floors

## 13.2 Computer Centre

DTU has a well-equipped centralized computer centre to cater to the needs of high profile students and faculty in the University. It is housed, in a magnificent state-of-the-art building having specialized laboratories to provide variety of platforms and computing environment for UG, PG and Research students. The centre possesses standalone servers Dell R630 & R720 rack servers and about 235 desktop computer of configuration (Intel Core i5 processor). These are working on Windows 10 professional edition, server 2012, 2016 and Linux platforms.

### Organization Structure:

#### Head of the Computer Center

Smt. Divya Narayan, head.cc@dce.ac.in

#### Knowledge Network Manager

Sh. Piyush Vaish, piyushvaish@dtu.ac.in

#### System Manager

Sh. Vikas, system.manager@dtu.ac.in

### Technical Staff:

Sh. Manish Kumar	Assistant Programmer
Sh. Mukesh Kumar	Assistant Programmer
Sh. Nilesh Kumar	Assistant Programmer
Sh. Sudhir Kumar	Network Assistant
Sh. Vinod Saini	Network Assistant
Sh. Vikas Sinha	Junior Technical Assistant

### DTU Campus-wide Network:

The centre is networked through high-end intelligent Dax/Avaya/Aruba/D-Link/Brocade/Juniper manageable switch, and possesses round the clock two leased lines of 10Gbps link of NKN (primary line) and 1Gbps link of Reliance Jio (secondary line) in different pipes for the Wi-Fi connectivity in the Library, Academic, Departments, Administrative, Faculty residence and Hostel blocks of the campus, with internet

facilities on all the nodes. Access for internet is given to end user after secure authentication. Network traffic is being monitored & controlled by full version of Palo-Alto5220 (Firewall & UTM). Presently all the 235 computers are connected through LAN in two floors of computer centre providing internet access. It is providing programming facilities to all the departments of the university. The departments/academic/library/administrative blocks, faculty residence and all the hostels of DTU are interconnected using 48 core & 6 core optical fiber cable(OFC) and Wi-Fi with 250 number of access points.

The present network setup satisfies the needs of the University's rudimentary Internet connectivity and maximum resource sharing for the connected departments. To put DTU on par with IITs and reputed NITs, it is necessary to use Information Technology as the backbone for its academic, research, consultancy and administrative ventures.

### DTU Website:

Computer Centre maintain DTU websites (www.dtu.ac.in), alumni portal, training & placement department, academic departments portal, library portal, IQAC portal, faculty portal, hostel portal, student portal and other related intranet/internet web services. The DTU website is updated by this centre on daily basis. The information on the website displayed after the approval of the concerned department, faculty or administrative offices.

Computer Centre provides mail services to the university teaching communities and administrative officers. Mail service is integrated with Google G-Suite education edition to all its faculty and students for day-to-day academic work.

## DTU ERP:

Computer Centre also manages University ERP system ([https://cumdtu.in/lsa\\_dtu](https://cumdtu.in/lsa_dtu), [https://cumdtu.in/staff\\_dtu](https://cumdtu.in/staff_dtu), [https://cumdtu.in/student\\_dtu](https://cumdtu.in/student_dtu)) which is developed by third party vendor.



### 13.3 Department of Training and Placement

The Department of Training and Placement is the nodal department for coordinating the training and placement efforts of the university. It is responsible to hone the skills of talented DTU students and train them for placements and internships at reputed multinational firms.

The placement process begins by sending invitationsto companies to visit the University for Pre-Placement Talks and provide their job announcements. The talks provide an avenue for interaction and familiarization of students with the recruiting organizations and their work profile. Students from Bachelor of Technology (B.Tech), Master of Technology (M.Tech), Master of Business Administration (MBA) programs in various fields of engineering and technology, participate in the placement process.

#### Organization Structure:



#### Placements Overview:

Organizations from diverse background participate in the recruitment session every year, offering a wide variety of profiles which can be broadly classified into:

#### 1. Core Engineering & Technology

The students of DTU continue to demonstrate a strong commitment to their core educational background in the choice of employment. A large

number of students opt for science, engineering and technology oriented jobs, with the recruiting companies operating in various sectors of the economy. Some of the core companies are Maruti Suzuki, L&T, Hyundai, Samsung Engineering and R&D, Texas Instrument, Qualcomm, Western Digital, BASF, NXP Semiconductor, ST Microelectronics, JK Tyres, Havells, JCB to name a few. There were 372 job offers from 73 organizations in in Core Engineering domain.

#### 2. Software & IT Enabled services

134 leading IT firms, including several global leaders, visited DTU for campus placements during 2022-23. These organizations work with large corporations across the world and help them resolve complex business problems. Management Consulting companies especially carry a reputation of being very selective in their choice of campuses and of having extremely high standards in their recruitment process. 1019 offers were made in software firms like Google, Amazon, Microsoft, Atlassian, Sprinklr, DeShaw, Flipkart, Adobe, Paytm, Goldman Sachs, Citibank, Uber, Airtel, HCL to name a few.

#### 3. Analytics and Consulting

The well-deserved reputation of superior analytical and reasoning skills of DTU graduates continues to draw recruiters from the rapidly growing field of data analytics. There were 524 job offers from 75 organizations in 2022-23 making it one of the biggest sector after information technology profile. Some companies that visit DTU are JPMC, McKinsey & Co, Optum, Barclays, Deloitte, ZS Associates, EXL Services,

KPMG, Bain, BCG, Willis Towers Watson, PWC, Landmark, Thorogood and many more.

#### 4. Teaching

DTU has continued to provide faculty to several educational institutions and universities through campus recruitments over the past several years. Many post-graduate students have been offered jobs with public and private educational institutions

through campus placement. Some of the educational institutes visiting DTU are DIT University, Byju's, Metis Eduventures, AdmitKard.

#### 5. PSU/ Government

Various PSUs and Government organisations hire from DTU, the institutions include PSUs like GAIL, BEL, C-Dot, EdCIL to name a few. This year UIDAI also hired multiple students from DTU.

### Placement Highlights 2022-23:

Name of Course	Name of Department	No. of offers Made	No. of Student Placed	No. of Internships and Field Training Offers	Highest Package Offered (in LPA)
B.Tech.	Automotive Engineering	42	38	***	31
	Bio Technology	28	26	***	31
	Civil Engineering	62	59	3	18
	Computer Engineering	390	351	173	82.05
	Electrical Engineering	206	192	27	82.05
	Electronics and Communication Engg.	169	154	34	51.03
	Engineering Physics	45	43	5	38.67
	Environment Engineering	34	33	5	30.83
	Information Technology	129	117	36	82.05
	Mathematics and Computing	112	101	31	82.05
	Mechanical Engineering	197	181	11	31
	Chemical Technology	45	41	4	30.83
	Production and Industrial Engineering	45	42	3	31
	Software Engineering	131	121	40	64.23
	<b>Total</b>	<b>1635</b>	<b>1499</b>	<b>372</b>	<b>82.05</b>
M.Tech.	Civil Engineering	27	25	***	8.4
	Geo-informatics	***	***	***	***
	Electrical Engineering	27	27	***	36
	Mechanical Engineering	37	28	***	13
	Computer Science & Engineering	42	41	***	51.03
	Software Engineering	21	20	***	30.83
	Electronics and Communication Engg.	37	34	***	38.67
	Environment Engineering	6	5	***	7
	Bio Technology	10	7	***	30
	Information Technology	21	20	***	23.25
	<b>Total</b>	<b>228</b>	<b>207</b>	<b>***</b>	<b>51.03</b>

MBA	MBA (All Specializations)	120	119	8	23.78
B.Tech. (CE)	B.Tech (Continuing Education)	5	5	***	18
BBA/BAE		34	33	***	12.65
M.Sc.	M.Sc. (Phy, Math, Bio)	55	48	***	30.83
B.Des./ M.Des.		10	9	1	21
Ph.D.		1	1	***	18
<b>Total</b>		<b>2088</b>	<b>1921</b>	<b>381</b>	<b>82.05</b>

## Placement Highlights 2022-23:

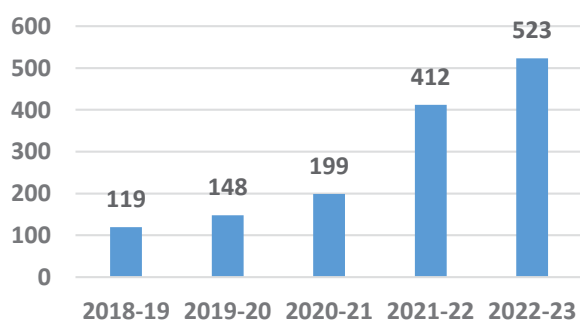


## Our Top Recruiters:

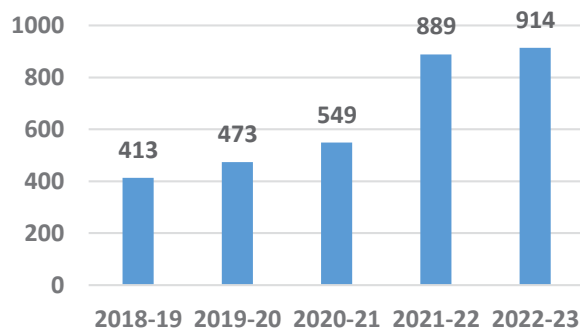
The CTC offered by companies to DTU students has also seen a steady increase in the past 5 years. In the year 2022-23, the number of offers above 20 LPA rose to 523 and those between 10 LPA and 20 LPA rose to 914. The average CTC offered is also 16.69 LPA. This is a proof of the rising demand for talented graduates of DTU. The demand for DTU students is evident from the fact that companies are not only offering high packages but are hiring in big numbers.



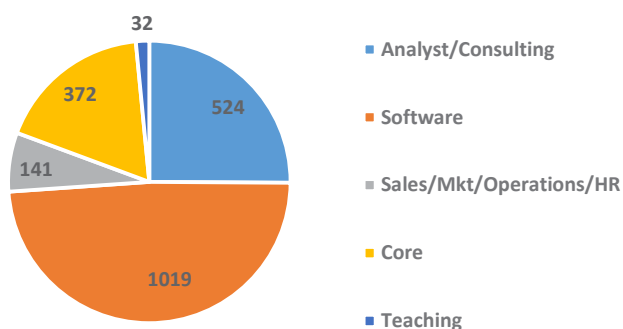
### Number of offers with CTC $\geq 20$ LPA



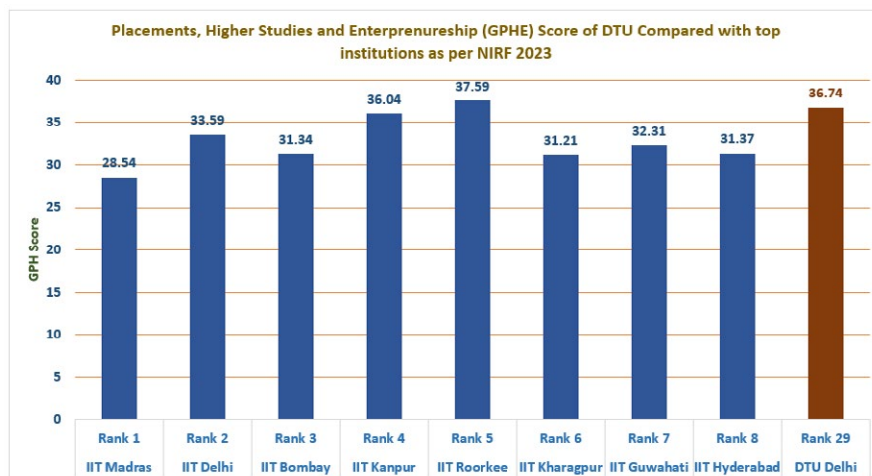
### Number of offers with $10 \leq \text{CTC} < 20$ LPA



### Sector-Wise Distribution of offers (2022-23)



### NIRF Ranking:



### International offers:

**380+**  
Offers

**147 Offers:**  
above 1 Lacs

**136 Offers:**  
1 Lacs < 50 Thousand

## Internship:

Apart from the stellar placement record DTU also had a record breaking internship season 2022-23. A number of domestic/international recruiters visited the campus for the purpose of on-boarding interns. Many students were also given Pre-Placement Offers by companies based on their internship performance. The stipends went as high as 2 Lacs.

## Top Internship Recruiters:

COMPANY	STIPEND (₹)	COMPANY	STIPEND (₹)
Sprinklr	2,00,000	Flipkart	1,00,000
Uber	1,60,000	DisenyHotstar	1,00,000
Tower Research	1,50,000	Media.net	1,00,000
JPMC	1,00,000	Adobe	1,00,000
De Shaw	1,00,000	Google PPI	98,000
ARCESIUM	1,00,000	Salesforce	90,000
Devrev	100000	Wells Fargo	90,000

## Training Programs:

Department of Training and Placement provide industry relevant and skill enhancing trainings to make the students competent for the different roles. A comprehensive training program is designed for the overall development of the students in the following broad categories:

S. No.	Category	Programs
1	Career Counselling	Mentorship session which enable students to gain knowledge about the various career and higher study options after graduation.
2	Skill enhancement Program	Talks/expert lectures on skill enhancement by alumni working in diverse sectors to prepare for requirement of industry. Workshops to enhance communications skills, interview skills and group dynamics.
3	Industry relevant training programs	Workshops on various domains like electronics, mechanical, robotics, software, analytics and consulting. Training programs organized in collaboration with many prestigious organizations on current trends in Technology.
4	Interview preparatory sessions	To acquaint the students with the processes of different companies, mock interview sessions, specifically designed and customized as per the past process of each company are conducted.
5	Sessions for Civil Service & Higher studies	Sessions focused majorly on higher education are conducted involving experts/Alumnus from different universities in and outside India to guide the DTU students about the application process and common doubts. The sessions have been effective in augmenting the career related knowledge of students.

## Infrastructure:

In order to conduct presentations, online tests, group discussions and interviews the department has following infrastructure:

**Interview Rooms: 27**

**Group Discussion (GD) Rooms: 05**

**Online Test Facility (No of computers in CC): 250**

**Presentation Hall: 01**

## 13.4 Sports and Gymnasium

**Prof. R.C. Singh** (Mechanical Engineering)  
Director Physical Education

The students of Delhi Technological University are provided with excellent facilities and encouraged to take part in the tournaments held in and around NCR Delhi, particularly, engineering institutions. The university has following facilities for outdoor sport activities:

400 m Running Track  
Ground for Football, Hockey,  
Cricket 2 Courts for Volley Ball  
2 Courts for Basketball  
3 Courts for Tennis  
5 Courts for Badminton  
3 Courts for Kabaddi

Indoor Games facilities are also provided i.e.

Table Tennis rooms, Chess rooms,  
Carom rooms, Gyms (each hostel)

The university has well equipped gymnasium with the modern equipment's. The university students, faculty and staffs utilize this facility. There are two full gymnasiums in the university, one is situated in the sports ground and yet another is situated in the faculty residential area which is generally used by girl students also.



**DTU Gymnasium**



**DTU Badminton Court**



**DTU Table Tennis Court**



**The Main Cricket Field**



**The Main Football Field**



**Volleyball, Basketball, Tennis Court**

### 13.5 Health Centre

Office-In charge:- **Dr. Rajesh Birok** (Electronic and communication)

Delhi Technological University has a modest Health Centre manned by well experienced Doctors and other paramedical staff. The services of two general medicine practitioners are available to the students and all other stakeholders throughout the day. The University Health Centre is also visited by specialized medical practitioners for Eye, Dental care, Orthopedic, Gynecology, Psychiatry, Physiotherapy etc. for expert advice and treatment. University is also associated with nearby leading hospital viz., Ishan Hospital for emergency medical assistance. Many hospitals in the vicinity of the University are also on panel such as Saroj Hospital, Mahavir Hospital, Jaipur Golden Hospital and Max Hospital etc. Moreover, a state of art sports medicine-cum-physiotherapy center has been providing the necessary expert advice. The following Doctors engaged in the University Health Center.



#### DOCTORS ENGAGED IN THE UNIVERSITY HEALTH CENTER

**Dr. Ravi Bansal**

Expertise: General Physician  
Days: Mon to Sat  
Timing: 1 PM to 5 PM

**Dr. Rajesh Singhai**

Expertise: General Physician  
Days: Mon to Sat  
Timing: 9 AM to 12 NOON

**Dr. Arpana Bansal**

Expertise: Eye Specialist  
Days: Mon, Wed and Fri  
Timing: 1 PM to 3 PM

**Dr. Bharat B. Sethi**

Expertise: Dentist  
Days: Mon, Wed and Fri  
Timing: 1 PM to 3 PM

**Dr. Subodh Mor**

Expertise: Sports  
Medicine- cum Physiotherapist  
Days: Mon to Sat  
Timing: 1 PM to 4 PM

**Dr. Dinesh Bansal**

Expertise: Orthopedician  
Days: Mon, Wed and Fri  
Timing: 1 PM to 3 PM

**Dr. Gaurav Gupta**

Expertise: Psychiatrist  
Days: Tue and Thu  
Timing: 1 PM to 4 PM

**Dr. Nishi Jha**

Expertise: Psychiatrist  
Days: Tue and Thu  
Timing: 1 PM to 4 PM

## Several initiatives are taken to augment the quality and services of Health Centre:

- Appointment of new clinical psychologist is under process.
- New doctors are to be engaged very soon in the following departments:
  - ENT
  - Dermatology
  - Ayurveda
  - Homeopathy
- Two qualified new nursing staff [One Male and One Female] are deputed to provide adequate nursing facility to all the stake holders viz., students, faculty staff etc.
- Salary of doctors hiked up to another 25%.
- Generic medicines inventory is improved and expanded with the intake of new medicines including rabies vaccines.
- New non-consumable items added such as
  - Renovation related to civil and electrical works carried out time to time nearly in all the departments of the health center.
  - Purchase of new medical diagnostic and testing equipment is also under process.
  - Sign/flex boards put at all the prominent place to display vital information related to emergency services details, depression, stress symptoms and management.
  - First-aid boxes procured through stores and purchase for the distribution in the departments and central utilities of the university.
  - Under the University Student Internship Program [USIP] one such student was engaged to carry on routine assignments related to University Health Centre.
  - To maintain the quality of service, the university has established the system for-
    - Feedback from the patients
    - Monthly performance reports of doctors
    - Biometric attendance of the doctors and paramedical staff
- Recently various medical diagnostic and procedural equipment have been added to further enhance the available capacity and expertise of the University Health Centre, such as:

New Air Conditioners installed in all the departments,  
New furniture such as tables, chairs, stools, benches & reception desk  
RO Water purifier system  
Tea, coffee & soup making machine

Auto-refractometer  
New dental set up with latest accessories  
Physiotherapy equipment like tread mill machine  
Pulse-oximeter  
Two Oxygen concentrator with six oxygen cylinders  
Dental X-ray machine





## 13.6 Security and Transport Branch

### SECURITY BRANCH:

The Security Branch is the immune system of the University. They are responsible/committed for the security of people and property inside the University campus. It is constituted of an efficient team of dedicated security personnel's and very righteous and decisive Security Officer & Dy. Security Officer. Their indefatigable and vigilant nature ensures the safety & security of all the students, VIP'S, teaching & non-teaching staff, guest and visitors within the campus. They also take care of the safety of buildings, equipment and other infrastructure of the university. In case of breach of security or violation of security protocols, the individuals involved are strictly dealt with.

In case any security related grievance/assistance/feedback, following officers may be contacted:

S. No.	Name & Designation	Contact No.
1.	LT. (Dr). Raghvendra Gautam, Security Officer (Mechanical Engineering)	9891709954

2.	Sh. A. K. Chauhan, Dy. Security Officer	8506866090
3.	Sh. Sri Pal, Head Supervisor (NSSA)	8510856827
4.	Security Supervisor on duty (24x7)	9817160668
5.	Security Control Room, Main Gate, DTU	011-27299376 & intercom No.-1105

All the stakeholders of the University are hereby informed that in case of any requirement of University Ambulance the following persons may be contacted:

1.	Sh. Mukesh Kumar, Driver	9136126190
2.	Security Supervisor on duty (24x7)	9817160668
3.	Control Room (Security), Main Gate, DTU	011-27299376 & Intercom No. 1105

In case of finding any valuable items (Laptop, Mobile, Camera, Purse etc.), all the Stakeholders of the University are hereby requested to immediately report to "Lost & Found" section in Security Control Room Main Gate or Security Office, Room No. 109, Admin. Block, DTU.

### TRANSPORT BRANCH:

The university has established a transport office with the following vehicles which are available in the University for official duties time to time.

S. No.	Type of Vehicle	Registration No.	Attached with	Name of Drivers
1.	Maruti Ciaz	DL-11CB-2685	Hon.ble VC	Sh. Mukesh Kumar (Parmanent)
2.	Honda City	DL-10CA-2100	General Pool	Sh. Updesh Saini (Contractual)
3.	Ambassador	DL-8CNA-3902	General Pool	Sh. Rishi Pal (Out Source)
4.	Omni Van	DL-5CD-9975	General Pool	Sh. Rishi Pal (Out Source) (Addl. Charge)
5.	Ambulance	DL-1A-2507	Emergency & Trauma	Sh. Mukesh Kumar (Permanent) (Addl. Charge)
6.	S/M Bus (Lab of Wheel)	DL-1MA-6407	Dean, Outreach & Extension	Sh. Davendra Kumar (Out Source)

**“LAB ON WHEEL”**

It is a customised vehicle which is used for laboratories purposes and attached with Dean, OEA (Outreach and Extension Activities).

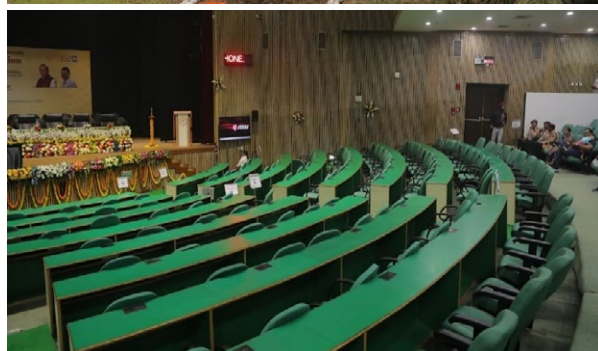
In addition, the University also maintained a 35 seaters CNG Bus (S/Mazda, DL-1PC-3419, Sh. Ravinder Kumar, Driver & Sh. Kishan Rana, Helper) for the transportation of the University students and from nearest metro station (Samaypur Badli & Rithala) to the university campus six times a day, the bus is also provided for various educational and industrial tours by the students in the nearby areas.



## 13.7 Auditoriums

### Dr. B. R. Ambedkar Auditorium:

Dr. B. R. Ambedkar Auditorium has been inaugurated by Prof. D. Goldar, Principal, Delhi Collage of Engineering on dated 30<sup>th</sup> December, 2007. The Auditorium is full air-conditioned, state-of-art audio-visual Infrastructure for webcasting in an auditorium having a seating capacity of Six Hundred and Fifty. The Auditorium use for different function/Programs/Event like Convocation, Golden Pride Function, Engifest, Yuvaan, Tech Fest and different department programs/seminars etc.



## Raj Soin Hall:

The Foundation stone of Raj Soin Hall was laid by Dr. Raj Soin, 1969 Batch DCE Alumnus on dated 8<sup>th</sup> February, 2019 and Raj Soin Hall has been inaugurated by Prof. Yogesh Singh, Vice Chancellor, University of Delhi on dated 28<sup>th</sup> October, 2022. Raj Soin Hall partially funded by Dr. Raj Soin, CEO, Soin LLC & Alumnus (1969). The Raj Soin Hall seating capacity is 3300 Nos. There are four cafeteria available inside the lobby area of Raj Soin Hall and one sports arena having 04 Nos. Badminton court and 4 No's. TT Table. There is different Event/Program/Function like Orientation, Aavaan and Sports fest etc.



## 13.8 Store and Purchase

Office-in-Charge: **Dr. Pradeep Kumar Teotia**

The Stores section has a quality system of Inventory management, which involves updated records of all stores/equipment's received and issued to the user department, Annual Stock Verification and Disposal of obsolete/unserviceable stores/equipment.

### Organization Structure:

1. **Dr. Pradeep Kumar Teotia**  
Assistant Registrar
2. **Sh. Madhuresh Kumar Jha**  
Section Officer
3. **Sr. Ashok Kumar Pandey**  
Chief Store Keeper
4. **S. Anuradha**  
Assistant Store Keeper (Contract)

The Purchase section has a quality procurement policy. The important Consideration in purchase of Goods or services are –



Efforts are being made to ensure placement of contract/ Purchase Order within the original validity of the bids. Specified quality and reliability of the supplier has to be taken into consideration with low-cost involvement. The purchase procedure being followed in this University is based on the guidelines enumerated in the General Financial Rules 2017 and Manual of Procurement of Goods 2017.

This university has various committees of the faculties/officers for making purchases:

#### CENTRAL PURCHASE COMMITTEE (CPC):

The committee has been constituted consisting of the senior faculty members for the purpose of scrutiny/ evaluation of all the purchase proposals of all the department of the University, which are having the estimated cost of the item more than ₹ 50 Lacs and submit its recommendation to the Vice Chancellor, DTU.

#### UNIVERSITY TECHNICAL EVALUATION COMMITTEE

The University Technical Evaluation Committee (TEC) constituted for consideration, evaluation and clearance of purchase proposals of Computers, Computer Peripherals and Software's of various departments of the university.

#### DEPARTMENTAL PURCHASE COMMITTEE (DPC)

The committee has been constituted at the department level under the Chairmanship of respective HOD of the Departments to scrutinize/ evaluate technical /financial bids of all the purchase proposals pertaining to their department and to submit its recommendation to the Competent Authority.

Other than the above-mentioned committees, there are some specific committees, such as;

**Stationery & Printing Committee**  
**Chemical & Glassware Purchase Committee**

## 13.9 Engineering Cell & Estate Office

Office-in-Charge : **Prof. Amit Srivastava** (Chief Project Officer)

**(Bird's eye view of the University)**



The Campus of Delhi Technological University (DTU) Erstwhile Delhi College of Engineering, DCE has functioned from its historic Kashmere Gate Campus for almost 55 years and has shifted in 1996 to its lush green sprawling campus of 164 Acres at Bawana Road, adjoining Sector-17, Rohini, Delhi-42. Its shifting to new campus has added the dimension of research and caused innovations in plenty, which has

received high national and international acclaim. The total campus plot area is 163.87 acres (663154.03sqm).

The Campus was shifted from Kashmere Gate Campus to Bawana Road after the construction of 1<sup>st</sup> phase targeting the infrastructure for 3000 students. Presently, catering the need of about 15000 students. The breakup of land use is given below:-

Description	DTU- Main Campus (In Acres)	DTU- East Delhi Campus (In Acres)
Total land Available	163.87	2.06
Area For Road Widening	1.13	-
Net Area	162.74	2.06
Academic Area	74.86 (46%)	0.58
Residential & Hostels Area	42.31 (26%)	N/A
Green/Open Area	21.15 (13%)	1.23
Sports and Cultural Area	24.42 (15 %)	0.25

### Administrative and Academic Blocks:

The details of administrative and academic blocks of DTU along with its corresponding approximate ground coverage and covered area details are as given below

S. No.	Description	Total Gr. Coverage (Sq.M)	Total Covered Area on all Floors (Sq.M)
1.	Administrative Block	1879.40	4063.66
2.	Electrical Block	9628.64	23684.49
3.	Electronics	9628.64	23684.49
4.	Civil Engineering Block	9628.64	23684.49
5.	Mechanical Engineering Block	4208.83	14291.10
6.	Workshop Block	3416.20	3416.20
7.	Faculty Block (Electrical Engineering Department)	–	1100
8.	Faculty Block (Civil Engineering Department)	–	1118
9.	Science Block	2817.43	8667.78
10.	Academic Block-3 (AB-3)	1809	17032
11.	Academic Block-4 (AB-4)	2285	22773

### Central Administrative and Academic Facilities:

The details of various central administrative and academic facilities at DTU is given below:

S. No.	Facilities	S. No.	Facilities
(A)	Branch of SBI	(I)	Training & Placement Cell
(B)	Post Office	(J)	Library
(C)	Canteen, Kiosks and Shops	(K)	Health Center
(D)	Sport Complex	(L)	Guest House
(E)	Open Air Theater (OAT)	(M)	DTU studio
(F)	Gymnasium	(N)	Kids day care
(G)	B. R. Ambedkar Auditorium	(O)	Raj Soin Hall (Multipurpose Hall)
(H)	Computer Center	(P)	Record Room

### Accommodation Facilities: Boys & Girls Hostel:

The details of boys & girls hostel accommodation including capacity of each hostel are given below:

#### Details of Boys Hostel

S. No.	Name of Hostel	Capacity (Nos.)
1.	Bhaskaracharya Hostel	176
2.	Sir C. V. Raman Hostel	177
3.	Sir J.C. Bose Hostel	177
4.	Varahmihir Hostel	174
5.	Sir Vishveshwarya Hostel	178
6.	Homi Jehangir Bhabha Hostel	164
7.	Aryabhatt Hostel	171
8.	Ramanujan Hostel	42

9.	Dr. APJ Abdul Kalam Hostel (AC)	315
10.	Type – II Hostel	159

#### Details of Girls Hostel

S. No.	Name of Hostel	Capacity (Nos.)
1.	Kalpna Chawla Hostel (KCH)	42
2.	Sister Nivedita Hostel (SNH)	74
3.	Virangana Lakshmibai Hostel (AC)	666

## Accommodation Facilities: For Faculties & Staffs:

The details of residential accommodation for faculties and staff members including numbers of different type of houses/flats with its corresponding approximate ground coverage and covered area details are given below:

S. No	Type of residence	Nos	Total Gr. Coverage (Sq.M)	Total Covered area on all floors (Sq.M)
1.	Type VI Residence	1	200.00	250.00
2.	Type V Residence	56	2984.68	11938.72
3.	Type IV Residence	60	1565.56	6262.24
4.	Type III Residences	45	878.28	3513.12
5.	Type II Residence	105	1679.37	6717.48
6.	Type I Residence	60	803.12	3212.48
	Total	327		

## Other Green Infrastructure at a Glance:

The University is equipped with other green infrastructure as per the govt. Norms. The details are given below:

S. No.	Description	Capacity
1.	Solar Power Generation	880 (Kwh)
2.	Solar Water Heating	28000 LPD
3.	PNG Gen Set	125 KVA at East Campus
4.	Sewage Treatment Plant (STP)	1.0 MLD
5.	Waste to Energy Plant (WTP)	1.0 TPD
6.	Organic Composting Dry Leaves Pit	864 Cumt.

## Ongoing Projects: Civil & Electrical works:

The University has Committed to Build the World class Infrastructure facilities for fulfilling the futuristic demand of the students, faculties & staffs. The various works are ongoing in the university. The details are given below:

### Details of various Civil Works:

S. No.	Description of Work
1.	Construction of Four Storied Mess Building for the Girls Hostel.
2.	Construction of Parking for students near temple area
3.	Renovation and upgradation of washrooms at Academic Area
4.	Repair and renovation of University Health center and Guest House
5.	Repair and renovation of transit hostel
6.	Special repair and renovation of residential flats
7.	Upgradation on substation 1 to 4 (civil work)
8.	Construction of lifts in old academic and Type-IV & V residential blocks.

## Details of various Electrical Works:

S. No.	Description of Work
1.	Providing and fixing high-mast flood lights for illumination of Cricket and Football Ground.
2.	Augmentation of Existing Firefighting and Fire detection System of Delhi Technological University Delhi.
3.	RMO 3x100 TR Screw Chilling Machine installed for library computer center and Auditorium building.
4.	SITC of Professional Audio System with surround cinema system for Raj Soin Hall and auditorium.
5.	AMC of VRF Type Air Conditioning System Faculty Block and Design Centre, DTU, Delhi.
6.	AMC water cooler with RO system or aqua-guard installed at different location in DTU, Bawana Road, Delhi
7.	Servicing & routine maintenance of air conditions of SAC, WAC, Cassette type and Tower type AC, DTU Campus of different makes, DTU, Delhi.

## Significant Achievements:

The University has Completed various works and achieved significant milestones which has directly benefited the stakeholders and University's population at a large. The details of significant achievements are given below:



## ACADEMIC BUILDING AB-3 & AB-4:

### DETAILS AT A GLANCE:

S. No.	Description	Block	No. of Stories	Ground Coverage	Total Plinth Area
1.	Academic Block (Central AC)	AB-3	B+G+8	1809 Sqm.	18436 Sqm.
2.	Academic Block (Central AC)	AB-4	B+G+8	2285 Sqm.	23198 Sqm.

The Project has got 3-star Griha rating. Solar panels have also been installed on the roof top. These blocks consist of lecture halls, classrooms, computer labs, HOD rooms, meeting rooms and facility rooms etc. The details of the academic blocks are below:-

ACADEMIC BLOCK FLOOR DETAILS (AB-3 & AB-4)													
S. No.	Description	No. of Lecture Halls 80 Seater.	No. of Lecture Halls 130 Seater	No. of Classrooms 60 Seater	Computer Labs	HoD Rooms	Meeting Rooms	Record Rooms	Professor Rooms	Assistant Prof. Rooms	Research Schooler Rooms	Faculty Rooms	Technician Rooms
1.	AB-03	21	3	9	17	2	2	10	25	32	0	10	23
2.	AB-04	21	3	10	19	2	2	10	25	70	3	16	24
Total		42 No. Rooms	6 No. Rooms	19 No. Rooms	36 No. Rooms	4 Rooms	4 Rooms	20 Rooms	50 Rooms	102 Rooms	3 Rooms	26 Rooms	47 Rooms

Total Seating Capacity in class rooms of AB3 & AB4 = 5280

Total Seating Capacity in Computer Lab of AB3 & AB4 = 1876

### RAJ SOIN HALL: MULTIPURPOSE HALL



**Seating Capacity** : 3300 Nos.

**Facilities** : Four cafeterias, Sports arena:- 4 Nos. Badminton court, and 4 Nos. TT Table

**Hosts** : Event/Program/Function like Orientation, Aahvaan and Sports fest, etc.

**Partially Funded by** : Dr. Raj Soin, CEO, Soin LLC & Alumnus (1969).

### VEERANGANA LAXMI BAI HOSTEL



**Floors** : B+G+11

**Rooms** : 229 nos.

**Beds** : 685 nos.

**Facilities** : Guest Room, Gymnasium, TV/Activity Room, TT Room, Reading Room etc

**DR. A. P. J. ABDUL KALAM HOSTEL**

<b>Floors</b>	: B+G+11
<b>Rooms</b>	: 107 nos.
<b>Beds</b>	: 321 nos.
<b>Facilities</b>	: Guest Room, Gymnasium, TV/Activity Room, TT Room, Reading Room etc.

**DEPARTMENT OF DESIGN CENTRE**

Department of Design (DoD) building is a pre-fab structure offering B. Des. and M. Des. programs in DTU Campus and building is having lift provision.

<b>Area</b>	: 1600.00 Sqmt.
<b>Total classrooms</b>	: 08 Nos.
<b>Computer Lab</b>	: 01 No.
<b>HOD Office</b>	: 01 No.
<b>Faculty Office</b>	: 13 Nos.
<b>Library</b>	: 01 No.

## PRAGYA BHAWAN



The building is equipped with furniture, Audio Video System, lifts etc. and consists of Landscaped with greenery and flowers outside the cafeteria.

**Seating Capacity** : more than 1100 seating capacity  
**Total Classrooms** : 12 Nos.  
**Library** : 01 No.

## COMPUTER CENTRE LAB. AT 3<sup>rd</sup> FLOOR



**Seating capacity** : 174 Nos.  
**Facilities Provided** : Modular Furniture with cable management  
 Ergonomic mid-back chairs  
 Fully air conditioning with VRF system

**DR. A. P. J. ABDUL KALAM HOSTEL**

Landscaped with greenery and flowers outdoor gym.

**Outdoor machines** : 20 Nos.

**Facilities** : Stand Up Rower, Weight Assisted Chest Press, Lat Pulldown, Lateral Raise, Leg Extension, Shoulder Press, Squat Machine, Pull Down, Pec Fly, Chest Press, Adjustable Bench, Mid Row, Leg Press, Glute Machine, Calf Raise, Free Weight Bench Press Outdoor, Sit-Up Station, Dips/Chin-Up/Push-Ups.

**EAST DELHI CAMPUS OF DTU****(Elevation of Main Building)**

This Campus offers programs in three disciplines - Management, Economics, and Innovation, Entrepreneurship and Venture Development.

**Area** : 8336 sq.m.

**Facilities** : Auditorium (Seating: 250 nos.), All Smart Classrooms with ICT facilities & Canteen

## 14. Other Facilities

### 14.1 DTU Studio

Office-in-Charge: **Prof. S. Indu** (Electronics and communication Engineering)

The Television Studio at Delhi Technological University is an example of Innovation and Industry Academia Collaboration. The spacious television studio can handle Pre-Production, Production and Post-Production activities for various activities like Interview, Panel Discussion, short plays, lectures, etc. DTU STUDIO comprises of a multi camera setup with lighting grids and a Teleprompter, Production control room with control panels which can handle multiple video and audio sources online and offline, Graphics and special effects generators, video edit suites with I-Mac equipped with FCP-10 Professional Video Editing software, Photoshop for graphics and Motion, Live-Type for animation Design etc.

Our experienced and competent team of professionals renders these services by making use of ultra-modern technology with quality standards in tandem with exact requirements and necessities as required. The offered services are highly demanded for their unique characteristics such as reliable solution, flexible approach, hassle-free management, promptness, and professional approach.

The students of DTU are engage in a whole range of In-house and Outdoor production activities. These activities are widely admired for their timely execution, promptness and hassle-free operations. In addition to this, trouble free operation and promptness of these activities is our strength and are rendered in the best possible way

### Infrastructure:

- DTU STUDIO is having facility of two studios. It has the facility of Indoor production as well as Outdoor production. One of the studios has the facility of Teleprompter, Chroma keying with virtual studio sets and all necessary equipment for video production and two ENG camera set-up for Outdoor production like Events, fest, seminar, and live performance in DTU.
- It is equipped with sophisticated high end broadcasting quality equipment for production like Three Sony studio camera, Two Camcorder, Two Still camera, One Non-Linear Editing machine Mac Pro with Final Cut Pro Video Editing software, One Dell Precision T 7500 Workstation, One 7 Dell Precision tower 7810 dual Intel Xeon Workstation, VT-5 Live switcher, Sony D-800 Live switcher, Newton live audio and video switcher, Two Yamma O1V96 digital Audio Consol, Two lite-puter CV12.

### Utilization

- DTU STUDIO is covering all university Events, International Conferences, Departmental workshops, lab experiments, Student Fest, Alumni Meet as well as the **Global Initiative of Academic Networks (GIAN), TEQUIPS** in Higher Education Programs where renowned Experts faculty, Guest Lectures from internationally and national faculty lectures are recorded.

**DTU STUDIO YouTube Channel**

- At present, more than 550 videos have been uploaded on DTU Studio YouTube channel and till now there are more than ten thousand subscribers along with several million views on DTU Studio YouTube channel.
- Live telecast of almost all the major events to be held in Delhi Technological University, photography of all events, recording of audio videos, all digital content including event highlight videos, are currently being continuously uploaded on DTU Studio YouTube channel.

**Services Being Offered:**

- With the support of our in-house facilities, we are busy in offering Pre production, Production and Post Production Facility for recording various programs like Interview, Panel Discussion, short plays,

lectures, etc. in the spacious television studio of the university located at the 1<sup>st</sup> floor of Civil/Environment Engineering department. It has 2000 above Video lectures Library on Deferent topic.

- To offer these services, we have hired skilled and innovative professionals that hold in-depth knowledge and immense experience in their respective domain. The offered services are committed for their flexibility, reliability, and timely execution.
- Apart from this, studio is engaged in offering an impeccable quality of Outdoor Photography and Video Production Service with respect to suit the exact preferences as required. These services are available in various customized solutions as per the requirement. These services are widely admired for their timely execution, promptness, and hassle-free operations.

<https://www.youtube.com/c/dtustudio>

S. No.	Video Title	link
1	DTU Family Celebrate 76 <sup>th</sup> Independence Day-2022	<a href="https://youtu.be/ShDo2hLsaQk">https://youtu.be/ShDo2hLsaQk</a>
2	EXPLORING ENGINEERING HIGHLIGHT	<a href="https://youtu.be/O618ZB1wk_s">https://youtu.be/O618ZB1wk_s</a>
3	कवि-सम्मेलन-2022   काव्यांजलि -2022	<a href="https://youtu.be/z_OaFZ88ANY">https://youtu.be/z_OaFZ88ANY</a>
4	Business Plan Competition on World Entrepreneurs Day "SAMADHAAN-2022" PART-1	<a href="https://youtu.be/SKYzbdOrf4">https://youtu.be/SKYzbdOrf4</a>
5	Business Plan Competition on World Entrepreneurs Day "SAMADHAAN-2022" PART-2	<a href="https://youtu.be/YUXR7_Si6pU">https://youtu.be/YUXR7_Si6pU</a>
6	Golden Pride Function-2022 Part-1   Welcome Address by Prof. Rajesh Rohilla & Prof. S. Indu ji	<a href="https://youtu.be/xTgD-yXQC_s">https://youtu.be/xTgD-yXQC_s</a>
7	Golden Pride Function-2022 Part-2   Address by Shri Karnal Singh, IPS, Patron DTU Alumni association	<a href="https://youtu.be/6IFK23Rc9D0">https://youtu.be/6IFK23Rc9D0</a>
8	Golden Pride Function-2022 Part-3   Address by Prof. J.P. Saini, Vice Chancellor DTU	<a href="https://youtu.be/hBlwRqbNR1o">https://youtu.be/hBlwRqbNR1o</a>
9	Golden Pride Function-2022 Part-4   Address by Shri S. R. Narasimhan, Chairman & M. D. POSOCO	<a href="https://youtu.be/_cWrMLMKSQU">https://youtu.be/_cWrMLMKSQU</a>
10	Golden Pride Function-2022 Part-5   Address by Prof. Randeep Guleria, Director- AIIMS	<a href="https://youtu.be/GLey05G75A4">https://youtu.be/GLey05G75A4</a>

11	Golden Pride Function-2022 Part-6   Distribution of Certificates & Medals	<a href="https://youtu.be/WyUnhc3tUGQ">https://youtu.be/WyUnhc3tUGQ</a>
12	Golden Pride Function-2022 Part-7   Experience Sharing by Awardees	<a href="https://youtu.be/yD3OVk-UWjU">https://youtu.be/yD3OVk-UWjU</a>
13	Golden Pride Function-2022 Part-8   Experience Sharing by Awardees	<a href="https://youtu.be/2x85ljXYEew">https://youtu.be/2x85ljXYEew</a>
14	Golden Pride Function-2022 Part-9   Release of Scholarship Brochure   Felicitation of Guests	<a href="https://youtu.be/fQLknSxGyPI">https://youtu.be/fQLknSxGyPI</a>
15	DTU 9th Convocation-2022 Part-1	<a href="https://youtu.be/-OOp3_haTD4">https://youtu.be/-OOp3_haTD4</a>
16	DTU 9th Convocation-2022 Part-2   9th Convocation-2022 Delhi Technological University	<a href="https://youtu.be/io3E8B_GtYk">https://youtu.be/io3E8B_GtYk</a>
17	DTU Celebrating Teacher's Day-2022   शिक्षक दिवस पर हास्य कवि सम्मेलन -2022 Part-1 Welcome Address	<a href="https://youtu.be/hGIOx5Wi-wo">https://youtu.be/hGIOx5Wi-wo</a>
18	DTU Celebrating Teacher's Day-2022   शिक्षक दिवस पर हास्य कवि सम्मेलन -2022 Part-2 Poetry Reading	<a href="https://youtu.be/M67B85xpuFE">https://youtu.be/M67B85xpuFE</a>
19	DTU Celebrating Teacher's Day-2022   शिक्षक दिवस पर हास्य कवि सम्मेलन -2022 Part-3 Poetry Reading	<a href="https://youtu.be/qGrrBI-HWIU">https://youtu.be/qGrrBI-HWIU</a>
20	DTU Celebrating Teacher's Day-2022   शिक्षक दिवस पर हास्य कवि सम्मेलन -2022 Part-4 Poetry Reading	<a href="https://youtu.be/2gL5eV0e7Y0">https://youtu.be/2gL5eV0e7Y0</a>
21	DTU Celebrating Teacher's Day-2022   शिक्षक दिवस पर हास्य कवि सम्मेलन -2022 Part-5 Poetry Reading	<a href="https://youtu.be/UeX-RNGHubA">https://youtu.be/UeX-RNGHubA</a>
22	DTU Celebrating Teacher's Day-2022   शिक्षक दिवस पर हास्य कवि सम्मेलन -2022 Part-6 Poetry Reading	<a href="https://youtu.be/Hn3tz0tAytA">https://youtu.be/Hn3tz0tAytA</a>
23	DTU Celebrating Teacher's Day-2022   शिक्षक दिवस पर हास्य कवि सम्मेलन -2022 Part-7 Poetry Reading	<a href="https://youtu.be/qJBPAeTMHq0">https://youtu.be/qJBPAeTMHq0</a>
24	DTU Celebrating Teacher's Day-2022   Student Activities Part-1  Open Mic for Poetry Reading	<a href="https://youtu.be/_YtL4mL9oqc">https://youtu.be/_YtL4mL9oqc</a>
25	1st ANNUAL CONCLAVE '22 on FAMILY BUSINESS & ENTREPRENEURSHIP NEW BUSINESS OPPORTUNITIES Part-1	<a href="https://youtu.be/kEviWlrBSWQ">https://youtu.be/kEviWlrBSWQ</a>
26	1st ANNUAL CONCLAVE '22 on FAMILY BUSINESS & ENTREPRENEURSHIP NEW BUSINESS OPPORTUNITIES Part-2	<a href="https://youtu.be/2qh1NPr9Mfw">https://youtu.be/2qh1NPr9Mfw</a>
27	1st ANNUAL CONCLAVE '22 on FAMILY BUSINESS & ENTREPRENEURSHIP NEW BUSINESS OPPORTUNITIES Part-3	<a href="https://youtu.be/8velee_fZLo">https://youtu.be/8velee_fZLo</a>
28	1st ANNUAL CONCLAVE '22 on FAMILY BUSINESS & ENTREPRENEURSHIP NEW BUSINESS OPPORTUNITIES Part-4	<a href="https://youtu.be/7AlwJ9Xlo2w">https://youtu.be/7AlwJ9Xlo2w</a>
29	1st ANNUAL CONCLAVE '22 on FAMILY BUSINESS & ENTREPRENEURSHIP NEW BUSINESS OPPORTUNITIES Part-5	<a href="https://youtu.be/kTxuZpoAlss">https://youtu.be/kTxuZpoAlss</a>

30	Happiness Mantra by- Dr. Saamdu Chetri, Director at GNH Center, Bhutan   DTU SHIKSHAK PARV-2022	<a href="https://youtu.be/ZSwO5jXA0Mg">https://youtu.be/ZSwO5jXA0Mg</a>
31	Civil Services/UPSC Preparation ,Tips, Strategy For Beginners by IAS Topper Ms. Ira Singhal	<a href="https://youtu.be/awcDdBJUeF4">https://youtu.be/awcDdBJUeF4</a>
32	Teachers Day Celebration-2022 Part-1   HRDC DTU & Center of Excellence for the Science of Happiness	<a href="https://youtu.be/vI7IOixl8Ms">https://youtu.be/vI7IOixl8Ms</a>
33	Teachers Day Celebration-2022 Part-2   HRDC DTU & Center of Excellence for the Science of Happiness	<a href="https://youtu.be/XeHrSZMF4Sg">https://youtu.be/XeHrSZMF4Sg</a>
34	Teachers Day Celebration-2022 Part-3   HRDC DTU & Center of Excellence for the Science of Happiness	<a href="https://youtu.be/Ql2LZ_0Ed5s">https://youtu.be/Ql2LZ_0Ed5s</a>
35	Teachers Day Celebration-2022 Part-4   HRDC DTU & Center of Excellence for the Science of Happiness	<a href="https://youtu.be/paJXhParLuU">https://youtu.be/paJXhParLuU</a>
36	साइबर सावधानियां Part-1   Cyber Police & Society for IT Initiative का एक जागरूकता भरा कार्यक्रम	<a href="https://youtu.be/QQCik8X8PBM">https://youtu.be/QQCik8X8PBM</a>
37	साइबर सावधानियां Part-2   How to Report Cyber Crime Online in India by Cyber Police Delhi	<a href="https://youtu.be/ZXilfjoBM3U">https://youtu.be/ZXilfjoBM3U</a>
38	DTU Virtual Tour-2022   New Look of Delhi Technological University	<a href="https://youtu.be/rU4ILSnD5Qw">https://youtu.be/rU4ILSnD5Qw</a>
39	DTU Educational Tour-2022   Delhi Technological University To Attari-Wagah Border Amritsar (Punjab)	<a href="https://youtu.be/ff3lK-gDbPc">https://youtu.be/ff3lK-gDbPc</a>
40	Open House-Center for Extension & Field Outreach	<a href="https://youtu.be/tGMAA2WJqQl">https://youtu.be/tGMAA2WJqQl</a>
41	DTU Diwali Mela-2022   VIGILANCE AWARENESS WEEK 2022   IREDA & DTU COLLABORATION FOR NUKKAD NATAK	<a href="https://youtu.be/820a1HuyVJM">https://youtu.be/820a1HuyVJM</a>
42	-Official page of Delhi Technological University	<a href="https://youtu.be/zV5b-JQuWfK">https://youtu.be/zV5b-JQuWfK</a>
43	DTU Virtual Tour-2023   Glimpses of DTU   New Look of Delhi Technological University	<a href="https://youtu.be/pYfLvmp7JQw">https://youtu.be/pYfLvmp7JQw</a>
44	DTU Raj Soin Hall   New Multipurpose facility in one Hall	<a href="https://youtu.be/hyPZ8wQHLVY">https://youtu.be/hyPZ8wQHLVY</a>
45	DTU VIGILANCE AWARENESS WEEK   भ्रष्टाचार मुक्त भारत विकसित भारत	<a href="https://youtu.be/eGe4T_Ui5i8">https://youtu.be/eGe4T_Ui5i8</a>
46	Home Coming Meet-2022   Documentary on Revisiting Memories	<a href="https://youtu.be/rQRbjCQg7OQ">https://youtu.be/rQRbjCQg7OQ</a>
47	Inaugural Ceremony of Raj Soin Hall Part-1	<a href="https://youtu.be/yjxgEreSOZg">https://youtu.be/yjxgEreSOZg</a>
48	Inaugural Ceremony of Raj Soin Hall Part-2   Address by Guest of Honour, Dr. Raj Soin CEO, Soin LLC	<a href="https://youtu.be/5P47groltXQ">https://youtu.be/5P47groltXQ</a>
49	Inaugural Ceremony of Raj Soin Hall Part-3   Address by Prof. Yogesh Singh VC, University of Delhi	<a href="https://youtu.be/c4GbG9-ARMs">https://youtu.be/c4GbG9-ARMs</a>
50	Inaugural Ceremony of Raj Soin Hall Part-4   Felicitation of Dignitaries on the Dais, Vote of Thanks	<a href="https://youtu.be/JzuF9aSxFRw">https://youtu.be/JzuF9aSxFRw</a>
51	Silver Golden & Diamond Jubilee Homecoming Meet-2022 Part -1 Welcome Address by Prof. Rajesh Rohilla	<a href="https://youtu.be/-B8d7O3unvw">https://youtu.be/-B8d7O3unvw</a>

52	Silver Golden & Diamond Jubilee Homecoming Meet 2022 Part -2   Address by Dr. Muktesh Chandra	<a href="https://youtu.be/IYgOjHxActc">https://youtu.be/IYgOjHxActc</a>
53	Silver Golden & Diamond Jubilee Homecoming Meet 2022 Part -3   Address by Shri Karnal Singh	<a href="https://youtu.be/Y9xwsYjwPXU">https://youtu.be/Y9xwsYjwPXU</a>
54	Silver Golden & Diamond Jubilee Homecoming Meet 2022 Part -4   Address by Guest of Honour Vinod Dham	<a href="https://youtu.be/JsXWiRJKGz8">https://youtu.be/JsXWiRJKGz8</a>
55	Silver Golden & Diamond Jubilee Homecoming Meet 2022 Part-5   Experience Sharing by DTU Alumni	<a href="https://youtu.be/fC1g61w0SBM">https://youtu.be/fC1g61w0SBM</a>
56	Silver Golden & Diamond Jubilee Homecoming Meet 2022 Part-6   Felicitation of Alumni (With Spouse )	<a href="https://youtu.be/FiRJPxTKE-Y">https://youtu.be/FiRJPxTKE-Y</a>
57	Open House-11 Oct. 2022   Center for Extension & Field Outreach DTU	<a href="https://youtu.be/IJxHVAcvuTU">https://youtu.be/IJxHVAcvuTU</a>
58	DTU Orientation Cum Induction Programme -2022 High-light for Newly Admitted Students of B.Tech.	<a href="https://youtu.be/jqbV4vw7hag">https://youtu.be/jqbV4vw7hag</a>
59	ROOBAROO-19   Anoop lather Interviewing Paytm Founder/CEO & DTU Alumni Mr.Vijay Shekhar Sharma	<a href="https://youtu.be/bqTN1X0zLPw">https://youtu.be/bqTN1X0zLPw</a>
60	DTU Orientation Cum Induction Programme -2022 Day-2 Part-1   by Prof Rajeshwari Pandey	<a href="https://youtu.be/HJWI0dET0FM">https://youtu.be/HJWI0dET0FM</a>
61	DTU Orientation Cum Induction Programme -2022 Day-2 Part-2   Address by Prof. Parvir Kumar	<a href="https://youtu.be/zZW084Rh38o">https://youtu.be/zZW084Rh38o</a>
62	DTU Students Visit Tehkhand Waste to Electricity Power Plant Delhi   Waste to energy plant in India	<a href="https://youtu.be/MfqRu__xT7U">https://youtu.be/MfqRu__xT7U</a>
63	दिल्ली प्रौद्योगिकी विश्वविद्यालय की हिंदी कार्यशाला   हिंदी में कार्य करने की प्रेरणा - कार्यान्वयन	<a href="https://youtu.be/Oq1cxtYq4gU">https://youtu.be/Oq1cxtYq4gU</a>
64	दिल्ली प्रौद्योगिकी विश्वविद्यालय की हिंदी कार्यशाला की पूरी वीडियो. हिंदी में कार्य करने की प्रेरणा	<a href="https://youtu.be/rTUJcHbVp5E">https://youtu.be/rTUJcHbVp5E</a>
65	DTU Orientation Cum Induction Programme -2022 Day-1Part-1 Welcome address by Prof. Rajeshwari Pandey	<a href="https://youtu.be/CteHn2ryfeQ">https://youtu.be/CteHn2ryfeQ</a>
66	DTU Orientation Cum Induction Programme -2022 Day-1, Part-2   Address by Prof. Madhusudhan Singh	<a href="https://youtu.be/JB6KdiuXV8E">https://youtu.be/JB6KdiuXV8E</a>
67	DTU Orientation Cum Induction Programme -2022 Day-1, Part-3   Address by Prof. J. P. Saini, VC, DTU	<a href="https://youtu.be/5WwXJRHcLQk">https://youtu.be/5WwXJRHcLQk</a>
68	DTU Orientation Cum Induction Programme -2022 Day-01, Part-4  Address by Karnal Singh	<a href="https://youtu.be/MZKYy8kOfuw">https://youtu.be/MZKYy8kOfuw</a>
69	DTU Orientation Cum Induction Programme -2022 Day-01, Part-5   Address by Prof. D.S. Chauhan	<a href="https://youtu.be/66qa2-OZJ8g">https://youtu.be/66qa2-OZJ8g</a>
70	DTU Orientation Cum Induction Programme -2022 Day-01, Part-6   Faculty Introduction	<a href="https://youtu.be/safQsGs9TAs">https://youtu.be/safQsGs9TAs</a>
71	DTU Orientation Cum Induction Programme -2022 Day-01, Part-7   Memento Presentation ,Vote of Thanks	<a href="https://youtu.be/TXzLyVW-Qn4">https://youtu.be/TXzLyVW-Qn4</a>
72	DTU Orientation Cum Induction Programme -2022 Day-01, Part-8   Your Wings -Your Career by Dr. RM	<a href="https://youtu.be/ezdhEZViPbM">https://youtu.be/ezdhEZViPbM</a>

73	DTU Orientation Cum Induction Programme -2022 Day-02, Part-1   Address by Prof. Rajeshwari Pandey	<a href="https://youtu.be/iLssPshGLDY">https://youtu.be/iLssPshGLDY</a>
74	DTU Orientation Cum Induction Programme -2022 Day-02, Part-2   Address by Prof. Praveer Kumar Dean IA	<a href="https://youtu.be/PEex6qVufbs">https://youtu.be/PEex6qVufbs</a>
75	DTU Orientation Cum Induction Programme -2022 Day-02, Part-3   Address by Sh. Neeraj Kumar	<a href="https://youtu.be/POQaS18msNM">https://youtu.be/POQaS18msNM</a>
76	DTU Orientation Cum Induction Programme -2022 Day-02, Part-4   Address by Prof. S Indu Dean (DSW)	<a href="https://youtu.be/zSgYP3sE9u0">https://youtu.be/zSgYP3sE9u0</a>
77	DTU Orientation Cum Induction Programme -2022 Day-02, Part-5   Address by Prof. Rajiv Chaudhary	<a href="https://youtu.be/woiXL1f9Y0Y">https://youtu.be/woiXL1f9Y0Y</a>
78	DTU Orientation Cum Induction Programme -2022 Day-02, Part-5   Address by Dr. Manas Mandal	<a href="https://youtu.be/pqhcELYwpgs">https://youtu.be/pqhcELYwpgs</a>
79	National Pollution Control Day-2022   Part-1	<a href="https://youtu.be/S3msvqc9sel">https://youtu.be/S3msvqc9sel</a>
80	DTU Orientation / Induction Programme -2022 Day-02, Part-6   Mental Health Awareness - Gaurav Gupta	<a href="https://youtu.be/ih8rHfZuhbg">https://youtu.be/ih8rHfZuhbg</a>
81	DTU Orientation / Induction Programme -2022 Day-02, Part-7   Holistic Health by Dr. Sanjay Upreti.	<a href="https://youtu.be/2SJfTbRUX3I">https://youtu.be/2SJfTbRUX3I</a>
82	DTU Orientation / Induction Programme -2022 Day-02, Part-7   Holistic Health by Dr. Sanjay Upreti.	<a href="https://youtu.be/2SJfTbRUX3I">https://youtu.be/2SJfTbRUX3I</a>
83	National Pollution Control Day-2022   Part-2	<a href="https://youtu.be/woWGjGCVgyo">https://youtu.be/woWGjGCVgyo</a>
84	National Pollution Control Day-2022   Part-3	<a href="https://youtu.be/oS9fWzkYRwc">https://youtu.be/oS9fWzkYRwc</a>
85	National Pollution Control Day-2022   Part-4	<a href="https://youtu.be/OMIHb9eMf3s">https://youtu.be/OMIHb9eMf3s</a>
86	DTU Orientation/Induction Programme -2022 Day-03, Part-1   Address by Sh. VinitTyagi	<a href="https://youtu.be/mmmXKnftjdU">https://youtu.be/mmmXKnftjdU</a>
87	DTU Orientation/Induction Programme -2022 Day-03, Part-2   Address by Shri Indranil Chaudhary	<a href="https://youtu.be/7wW2WbLJVpY">https://youtu.be/7wW2WbLJVpY</a>
88	DTU Orientation/Induction Programme -2022 Day-03, Part-3   Address by Shri Alok Bansal (Alumni)	<a href="https://youtu.be/s8bsZxwb_5o">https://youtu.be/s8bsZxwb_5o</a>
89	DTU Orientation/Induction Programme -2022 Day-03, Part-4   Address Sh. Darpan Jain (alumnus)	<a href="https://youtu.be/WyKYolCIWYM">https://youtu.be/WyKYolCIWYM</a>
90	DTU Orientation/Induction Programme -2022 Day-03, Part-5   Address by Prof. Rajesh Rohilla	<a href="https://youtu.be/_RiVsNxXLqE">https://youtu.be/_RiVsNxXLqE</a>
91	DTU Orientation/Induction Programme -2022 Day-03, Part-6   Address by Amogh Lila Das ji	<a href="https://youtu.be/wAqS6YtOZ0M">https://youtu.be/wAqS6YtOZ0M</a>
92	Electric Vehicle Technology	<a href="https://youtu.be/hqd14C5EfmQ">https://youtu.be/hqd14C5EfmQ</a>
93	DTU Orientation/Induction Programme -2022 Day-03, Part-7   Address by Rachna Garg	<a href="https://youtu.be/T5ulGiCOPIg">https://youtu.be/T5ulGiCOPIg</a>
94	DTU Orientation/Induction Programme -2022 Day-03, Part-8   Address by Air Commodore Ranjan Mukherji	<a href="https://youtu.be/lueSEYVfug8">https://youtu.be/lueSEYVfug8</a>
95	DTU Orientation/Induction Programme -2022 Day-03, Part-9   Address by VirendraKalra	<a href="https://youtu.be/OMkXFq2DaQI">https://youtu.be/OMkXFq2DaQI</a>

96	DTU Orientation/Induction Programme -2022 Day-03, Part-10   Experience Sharing by Student	<a href="https://youtu.be/LXGoK0aeT10">https://youtu.be/LXGoK0aeT10</a>
97	DTU Orientation/Induction Programme -2022 Day-03, Part-11   Experience Sharing by Student	<a href="https://youtu.be/0JCFieXhL6U">https://youtu.be/0JCFieXhL6U</a>
98	DTU Orientation/Induction Programme -2022 Day-03, Part-12   Outreach and extension activities	<a href="https://youtu.be/5IWApGCD0eY">https://youtu.be/5IWApGCD0eY</a>
99	DTU Orientation/Induction Programme -2022 Day-03, Part-13   Address by Dr. Rahul Mehrotra	<a href="https://youtu.be/8QrIA5i6JKk">https://youtu.be/8QrIA5i6JKk</a>
100	About DTU Studio   dtustudio	<a href="https://youtu.be/pnO9u0D484E">https://youtu.be/pnO9u0D484E</a>
101	DTU Celebrate National Youth Day-2023   DTU Celebrate Birth anniversary of Swami Vivekananda	<a href="https://youtu.be/nRWCeqEEpLs">https://youtu.be/nRWCeqEEpLs</a>
102	Youth Empowerment Through Science and Technology Part-1   DTU Celebrate National Youth Day-2023	<a href="https://youtu.be/mjZvpkstmHA">https://youtu.be/mjZvpkstmHA</a>
103	Youth Empowerment Through Science and Technology Part-2   DTU Celebrate National Youth Day-2023	<a href="https://youtu.be/hBhV6y-NUqI">https://youtu.be/hBhV6y-NUqI</a>
104	DTU Orientation/Induction Programme -2022 Day-04, Part-1   Address by Dr. Dinesh Kumar Yadav	<a href="https://youtu.be/2LVzZ1W_p4I">https://youtu.be/2LVzZ1W_p4I</a>
105	DTU Orientation/Induction Programme -2022 Day-04, Part-2   Address by Prateek Kishore, Director, TBRL	<a href="https://youtu.be/rY_02GeXxmo">https://youtu.be/rY_02GeXxmo</a>
106	DTU Orientation/Induction Programme -2022 Day-04, Part-3   Address by Prof. Priya Mahajan	<a href="https://youtu.be/ueGXhGmkzas">https://youtu.be/ueGXhGmkzas</a>
107	DTU Orientation/Induction Programme -2022 Day-04, Part-4   Address by Mr. Piyush Vaish	<a href="https://youtu.be/B2-BeAOLJhY">https://youtu.be/B2-BeAOLJhY</a>
108	DTU Orientation/Induction Programme -2022 Day-04, Part-5   Address by Mr. Madhukar Cherukuri	<a href="https://youtu.be/EAq5iCcmdII">https://youtu.be/EAq5iCcmdII</a>
109	Republic Day Special Group Dance Video	<a href="https://youtu.be/sdTF_7wOqb4">https://youtu.be/sdTF_7wOqb4</a>
110	74th Republic Day -2023 Celebration Part-1   DTU Family Celebrating 74th Republic Day -2023	<a href="https://youtu.be/LwX1EW4FHRy">https://youtu.be/LwX1EW4FHRy</a>
111	74th Republic Day -2023 Celebration Part-2   DTU Family Celebrating 74th Republic Day -2023	<a href="https://youtu.be/ocHTwCEyk_M">https://youtu.be/ocHTwCEyk_M</a>
112	DTU Orientation/Induction Programme -2022 Day-04, Part-6   Address by Ms. Priyanka Manchanda	<a href="https://youtu.be/PiaARox_zrl">https://youtu.be/PiaARox_zrl</a>
113	DTU Orientation/Induction Programme -2022 Day-04, Part-7   About DTU Hostels by Chief Warden DTU	<a href="https://youtu.be/j6J5OJCzI6I">https://youtu.be/j6J5OJCzI6I</a>
114	CEO, DTU IIF/Startup Session Part-1   Mr. Gaurav Panwar of Cattle Guru Sharing his Startup Journey	<a href="https://youtu.be/iG7UCU11c5U">https://youtu.be/iG7UCU11c5U</a>
115	CEO, DTU IIF/Startup Session Part-2   Mr. Manish of MM-Mart Sharing his Startup Journey	<a href="https://youtu.be/JDFHcU3VUMQ">https://youtu.be/JDFHcU3VUMQ</a>
116	POSTER PRESENTATION HIGHLIGHT on INNOVATIVE IDEAS FOR WASTE MANAGEMENT-DTU	<a href="https://youtu.be/oxVU_oloHHM">https://youtu.be/oxVU_oloHHM</a>
117	CEO, DTU IIF/Startup Session Part-2   Mr. Himanshu of Echio Sharing his Startup Journey	<a href="https://youtu.be/0sTgffbi3wo">https://youtu.be/0sTgffbi3wo</a>

118	YUVAAN-2023   DTU LITERATURE AND FILM FESTIVAL-2023   INAUGURAL CEREMONY OF YUVAAN-2023	<a href="https://youtu.be/RAmE8-DRD1U">https://youtu.be/RAmE8-DRD1U</a>
119	YUVAAN-2023   DTU LITERATURE AND FILM FESTIVAL-2023   Address by Prof. Ramesh C Gaur Director NSD	<a href="https://youtu.be/LRm9RzC5XNA">https://youtu.be/LRm9RzC5XNA</a>
120	YUVAAN-2023 Fashion Show   DTU LITERATURE AND FILM FESTIVAL-2023	<a href="https://youtu.be/UlvqJ2gAqPw">https://youtu.be/UlvqJ2gAqPw</a>
121	Alumni Meet-2022 Part-1   Department of Software Engineering DTU	<a href="https://youtu.be/dRtx_FiBzcs">https://youtu.be/dRtx_FiBzcs</a>
122	Alumni Meet-2022 Part-2   Department of Software Engineering DTU	<a href="https://youtu.be/3sKnj0wpsHc">https://youtu.be/3sKnj0wpsHc</a>
123	YouTube channel to get live broadcast of special programs of Delhi Technological University Part 2	<a href="https://youtu.be/DuFynlea0xo">https://youtu.be/DuFynlea0xo</a>
124	ENHANCING RESEARCH AND COLLABORATION IN DATA SCIENCE AND ARTIFICIALINTELLIGENCE Part-1	<a href="https://youtu.be/ODcH7O1KOcE">https://youtu.be/ODcH7O1KOcE</a>
125	ENHANCING RESEARCH AND COLLABORATION IN DATA SCIENCE AND ARTIFICIALINTELLIGENCE Part-2	<a href="https://youtu.be/M8BhxDDygt0\">https://youtu.be/M8BhxDDygt0\</a>
126	ENHANCING RESEARCH AND COLLABORATION IN DATA SCIENCE AND ARTIFICIALINTELLIGENCE Part-3	<a href="https://youtu.be/ID4iSoSHxPc">https://youtu.be/ID4iSoSHxPc</a>
127	International Seminar on Distributed Artificial Intelligence in Global 5G/6G 5G Network	<a href="https://youtu.be/CRkc-MPpDCU">https://youtu.be/CRkc-MPpDCU</a>
128	DTU INVICTUS-2023 Part -1   DTU INVICTUS-23 Inaugural Ceremony Part-1	<a href="https://youtu.be/lyadnjPjqew">https://youtu.be/lyadnjPjqew</a>
129	DTU INVICTUS-2023 Part -2   DTU INVICTUS-23 Inaugural Ceremony Part-2	<a href="https://youtu.be/ICNITYBkBR0">https://youtu.be/ICNITYBkBR0</a>
130	DTU INVICTUS-2023 Part -3   DTU INVICTUS-23 Inaugural Ceremony Part-3	<a href="https://youtu.be/h2D99A7BBUw">https://youtu.be/h2D99A7BBUw</a>
131	DTU INVICTUS-2023 Part -4   DTU INVICTUS-23 Inaugural Ceremony Part-4	<a href="https://youtu.be/gDgk7ZUU4JM">https://youtu.be/gDgk7ZUU4JM</a>
132	ENG Fest 2023 Inaugural Ceremony Part -1   DTU ENG Fest 2023 Inaugural Ceremony	<a href="https://youtu.be/bZfOJKkMyec">https://youtu.be/bZfOJKkMyec</a>
133	ENG Fest 2023 Inaugural Ceremony Part -2   DTU ENG Fest 2023 Inaugural Ceremony	<a href="https://youtu.be/aMn0Qx0FRml">https://youtu.be/aMn0Qx0FRml</a>
134	ENG Fest 2023 Inaugural Ceremony Part -2   DTU ENG Fest 2023 Inaugural Ceremony	<a href="https://youtu.be/Hbf7eJcJLWw">https://youtu.be/Hbf7eJcJLWw</a>
135	DTU FLOWER SHOW HIGHLIGHT   DTU का पहला वार्षिक फ्लावर शो प्रतियोगिता का आयोजन संपन्न हुआ	<a href="https://youtu.be/xOPrG5slscw">https://youtu.be/xOPrG5slscw</a>
136	DTU Celebrating INTERNATIONAL Women's DAY-2023 HIGHLIGHT   Women's Health Tips	<a href="https://youtu.be/F090GYSIMaY">https://youtu.be/F090GYSIMaY</a>
137	DTU FLOWER SHOW Full Video   DTU का पहला वार्षिक फ्लावर शो प्रतियोगिता का आयोजन संपन्न हुआ	<a href="https://youtu.be/mU1lqNNwdFE">https://youtu.be/mU1lqNNwdFE</a>
138	DTU Celebrating INTERNATIONAL Women's DAY-2023 HIGHLIGHT   Women's Helth Tips	<a href="https://youtu.be/qd4DMZ7u_e8">https://youtu.be/qd4DMZ7u_e8</a>
139	Engineering Education Perspective	<a href="https://youtu.be/Xx-2JdZiOHw">https://youtu.be/Xx-2JdZiOHw</a>

140	DTU Celebrating INTERNATIONAL Women's DAY-2023 Part-1   Women's Health Tips Full Video	<a href="https://youtu.be/eejJ7Q1b0v0">https://youtu.be/eejJ7Q1b0v0</a>
141	DTU Celebrate National Science Day-2023	<a href="https://youtu.be/kIP2k5d579Q">https://youtu.be/kIP2k5d579Q</a>
142	Expert Talk on Process of Innovation Development   EE Department DTU	<a href="https://youtu.be/6oqfJxUd-XU">https://youtu.be/6oqfJxUd-XU</a>
143	शहीदों को काव्यांजलि - 2023   Part -1   DTU Kavyanjali-2023	<a href="https://youtu.be/8evYUSPjZt8">https://youtu.be/8evYUSPjZt8</a>
144	शहीदों को काव्यांजलि - 2023   Part -2   DTU Kavyanjali-2023	<a href="https://youtu.be/u3moh1JemeM">https://youtu.be/u3moh1JemeM</a>
145	An Awareness Program on Gender Sensitivity & Posh Act   Organized by EQUAL OPPORTUNITY CELL DTU	<a href="https://youtu.be/ayMkOS6NjV4">https://youtu.be/ayMkOS6NjV4</a>
146	Hawan Pooja in DTU   दिल्ली प्रौद्योगिकी विश्वविद्यालय में हवन पूजा समारोह	<a href="https://youtu.be/OPKom-PqKMk">https://youtu.be/OPKom-PqKMk</a>
147	शहीदों को काव्यांजलि - 2023   Part -3   DTU Kavyanjali-2023	<a href="https://youtu.be/HAeHdky1PnU">https://youtu.be/HAeHdky1PnU</a>
148	शहीदों को काव्यांजलि - 2023   Part -4   DTU Kavyanjali-2023	<a href="https://youtu.be/0rVfMNmojTs">https://youtu.be/0rVfMNmojTs</a>
149	शहीदों को काव्यांजलि - 2023   Part -5   DTU Kavyanjali-2023	<a href="https://youtu.be/Tp8HsTE-OMw">https://youtu.be/Tp8HsTE-OMw</a>
150	शहीदों को काव्यांजलि - 2023   Part -6   DTU Kavyanjali-2023	<a href="https://youtu.be/QUEprSfa4Fw">https://youtu.be/QUEprSfa4Fw</a>
151	DTU Batch Photography Highlight -2023	<a href="https://youtu.be/04bsJJd5p88">https://youtu.be/04bsJJd5p88</a>
152	Abhivyakti-2023 A Socio Art Extravaganza by Kala krait-DTU   Abhivyakti-2023 Highlight	<a href="https://youtu.be/jz8V3ktlbSA">https://youtu.be/jz8V3ktlbSA</a>
153	IEEE DTU Annual Hackathon VIHAAN-6.0 Highlight   IEEE DTU का वार्षिक है कार्थॉनविहान 6.0 Highlight	<a href="https://youtu.be/ZGOGki8qkgM">https://youtu.be/ZGOGki8qkgM</a>
154	6th Research Excellence Awards Function Part-1   6th Research Excellence Awards Function of DTU	<a href="https://youtu.be/OeOITXLO2So">https://youtu.be/OeOITXLO2So</a>
155	6th Research Excellence Awards Function Part-2   6th Research Excellence Awards Function of DTU	<a href="https://youtu.be/zhVLWYTZCg0">https://youtu.be/zhVLWYTZCg0</a>
156	6th Research Excellence Awards Function Part-3   6th Research Excellence Awards Function of DTU	<a href="https://youtu.be/WsFBppl9yqA">https://youtu.be/WsFBppl9yqA</a>
157	6th Research Excellence Awards Function Part-4   6th Research Excellence Awards Function of DTU	<a href="https://youtu.be/8hmjia289Lg">https://youtu.be/8hmjia289Lg</a>
158	6th Research Excellence Awards Function Part-5   Awards Ceremony	<a href="https://youtu.be/t8oHgDh1KR8">https://youtu.be/t8oHgDh1KR8</a>
159	6th Research Excellence Awards Function Part-6   Experience Sharing by Awardees	<a href="https://youtu.be/5YBJ9Nc-V1s">https://youtu.be/5YBJ9Nc-V1s</a>
160	DST-STUTI Day-1 Part-3   Lecture by Dr Mahesh Kumar IIT Jodhpur	<a href="https://youtu.be/CqQBuxfBJ8M">https://youtu.be/CqQBuxfBJ8M</a>
161	Desh Ke Mentor Conclave-2023 Highlight   देश के मेंटर कॉन्क्लेव -2023	<a href="https://youtu.be/ROBf_RSjaHw">https://youtu.be/ROBf_RSjaHw</a>
162	An Expert Talk on Role of DST in Innovation Incubation & Entrepreneurship	<a href="https://youtu.be/8kINHqwQjnc">https://youtu.be/8kINHqwQjnc</a>
163	SAAMANT-2023 Highlight   DTU NCC   1- DELHI ARMOUR SQUADRON	<a href="https://youtu.be/CyZ_H0ViEmY">https://youtu.be/CyZ_H0ViEmY</a>

164	SAAMANT-2023 Part-1   DTU NCC   1- DELHI ARMoured SQUADRON	<a href="https://youtu.be/i-1ZS3rR4Bw">https://youtu.be/i-1ZS3rR4Bw</a>
165	SAAMANT-2023 Part-2   DTU NCC   1- DELHI ARMoured SQUADRON	<a href="https://youtu.be/v99LIBI6yb8">https://youtu.be/v99LIBI6yb8</a>
166	SAAMANT-2023 Part-3   DTU NCC   1- DELHI ARMoured SQUADRON	<a href="https://youtu.be/IO_iJI-8x-Y">https://youtu.be/IO_iJI-8x-Y</a>
167	SAAMANT-2023 Part-4   DTU NCC   1- DELHI ARMoured SQUADRON	<a href="https://youtu.be/8B9tWWGP8DQ">https://youtu.be/8B9tWWGP8DQ</a>
168	SAAMANT-2023 Part-5   DTU NCC   1- DELHI ARMoured SQUADRON	<a href="https://youtu.be/olZvPjn5NOo">https://youtu.be/olZvPjn5NOo</a>
169	Drawing Competition on Innovative Ideas To Reduce Plastic Pollution   Event Highlight	<a href="https://youtu.be/SO4OFHq27lw">https://youtu.be/SO4OFHq27lw</a>
170	IGS-DTU Chapter Inauguration Highlight   Good News from Geotechnical Engineering DTU	<a href="https://youtu.be/QE8NqyT-1U">https://youtu.be/QE8NqyT-1U</a>
171	Alumni Interview Full Video	<a href="https://youtu.be/J7zdzkqES2E">https://youtu.be/J7zdzkqES2E</a>
172	International Yoga day-2023 Highlight   DTU में 500 से भी ज्यादा लोगों ने किया योगाभ्यास	<a href="https://youtu.be/TgRGPeNLSjs">https://youtu.be/TgRGPeNLSjs</a>
173	DTU Exploring Engineering-2023 Highlight   दिल्ली एनसीआर स्कूल के 258 छात्रों ने लिया भाग	<a href="https://youtu.be/vVOybVC_NcY">https://youtu.be/vVOybVC_NcY</a>
174	Valedictory Function of Exploring Engineering-2023 Full Video   समापन समारोह का पूरा वीडियो	<a href="https://youtu.be/KIZV2sqlm_Q">https://youtu.be/KIZV2sqlm_Q</a>
175	Highlight of Two-Week Refresher Course on Signal Processing, Image Processing & Machine Learning	<a href="https://youtu.be/QLRAYv5utSM">https://youtu.be/QLRAYv5utSM</a>
176	DTU-ISS Student Podcast Video	<a href="https://youtu.be/00_ruelrGkk">https://youtu.be/00_ruelrGkk</a>
177	DTU Virtual Tour-2023   Glimpses of DTU   New Look of Delhi Technological University	<a href="https://youtu.be/pYfLvmp7JQw">https://youtu.be/pYfLvmp7JQw</a>

## 14.2 Guest House

Officer-in-charge: **Dr. R. K. Yadav**, (Computer Sc. & Engineering)

The University has one guest house within the campus primarily meant for official guests of the DTU, Participants of seminars/Workshops/Conferences/Training programs organized by the University/

Centers/Departments. The rooms are comfortable with all modern facilities available within. It consists of eight double bedded rooms.

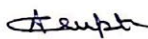


## 15. University Accounts

### DELHI TECHNOLOGICAL UNIVERSITY BALANCE SHEET AS AT 31<sup>st</sup> MARCH, 2023

SOURCES OF FUNDS	Schedule	As at 31-03-2023 (Rs)	As at 31-03-2022 (Rs)
CAPITAL FUND	1	5,41,83,87,821.09	5,22,76,52,650.17
CORPUS FUND	1A	48,52,26,572.00	46,01,95,422.00
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	2	3,55,00,72,979.21	2,11,25,42,845.57
CURRENT LIABILITIES AND PROVISIONS	3	9,03,40,505.38	6,01,91,042.11
<b>TOTAL</b>		<b>9,54,40,27,877.68</b>	<b>7,86,05,81,959.85</b>
APPLICATION OF FUNDS			
FIXED ASSETS	4		
Tangible Assets		3,70,00,43,373.34	3,46,12,32,151.34
Intangible Assets		3,91,96,744.34	2,80,95,842.89
Capital Work In Progress		9,72,22,865.00	18,93,28,703.00
INVESTMENTS	5		
Long Term (Earmarked Funds)		2,95,29,41,325.00	1,50,36,94,161.00
INVESTMENTS - OTHERS	6	1,21,06,26,925.00	38,64,15,725.00
CURRENT ASSETS	7	1,27,46,74,913.41	2,20,37,01,383.62
LOANS, ADVANCES AND DEPOSITS	8	26,93,21,731.59	8,81,13,993.00
<b>TOTAL</b>		<b>9,54,40,27,877.68</b>	<b>7,86,05,81,959.85</b>
SIGNIFICANT ACCOUNTING POLICIES & NOTES TO ACCOUNTS	23		

For M.A.M & Associates  
Chartered Accountants


  
Ajay Kumar Gupta  
(Partner)  
M.No. 095390  
UDIN :-


For Delhi Technological University

  
Ajay Kumar Gupta  
(Sr. AO / DDO)

  
Rajesh Kumar  
(Sr.AO)

  
Mahesh Kumar  
(DCA)

  
Narendra Dev  
(Controller of Finance)

  
Prof. Madhusudan Singh  
(Registrar)

  
J P Saini  
(Vice Chancellor)

Place : New Delhi  
Dated : 11th September, 2023

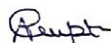
**DELHI TECHNOLOGICAL UNIVERSITY**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2023**

	Schedule	2022-2023 (Rs)	2021-2022 (Rs)
<b>INCOME</b>			
Academic Receipts	9	1,83,61,03,018.83	1,62,54,94,144.86
Grant in Aid	10	41,00,00,000.00	41,00,00,000.00
Income From Investments	11	3,38,36,944.00	1,21,42,401.00
Interest Earned	12	-	-
Other Incomes	13	20,81,14,852.88	1,87,85,377.55
Prior Period Income	14	-	-
<b>TOTAL (A)</b>		<b>2,48,80,54,815.71</b>	<b>2,06,64,21,923.41</b>
<b>EXPENDITURE</b>			
Staff Payments & Benefits (Establishment Expenses)	15	1,06,13,43,661.00	98,85,79,208.00
Academic Expenses	16	14,07,46,866.00	12,26,14,784.00
Administrative and General Expenses	17	35,12,87,020.28	29,82,70,328.00
Transportation Expenses	18	1,57,361.00	63,638.00
Repair and Maintenance	19	14,34,11,749.00	13,21,82,216.27
Finance Costs	20	1,67,496.02	4,18,413.56
Depreciation	4	22,22,82,255.09	19,30,57,784.09
Other Expenses	21	-	-
Prior Period Expenses	22	2,46,10,559.00	36,88,790.00
<b>TOTAL (B)</b>		<b>1,94,40,06,967.39</b>	<b>1,73,88,75,161.92</b>
Balance being Excess of Income over Expenditure		54,40,47,848.32	32,75,46,761.49
Transfer To Retirement Benefits Fund		2,00,00,000.00	2,00,00,000.00
Building Fund		-	-
Balance Being Surplus/(Deficit) Carried To Capital Fund		<b>52,40,47,848.32</b>	<b>30,75,46,761.49</b>

## SIGNIFICANT ACCOUNTING POLICIES &amp; NOTES TO ACCOUNTS

23

For M.A.M & Associates  
Chartered Accountants





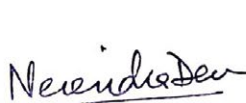
Ajay Kumar Gupta  
(Partner)  
M.No. 095390  
UDIN :-

For Delhi Technological University

  
 Ajay Kumar Gupta  
(Sr. AO / DDO)

  
 Rajesh Kumar  
(Sr.AO)

  
  
 Mahesh Kumar  
(DCA)

  
 Narendra Dev  
(Contoller of Finance)

  
 Prof. Madhusudan Singh  
(Registrar)

  
 J P Saini  
(Vice Chancellor)

Place : New Delhi  
Dated : 11th September, 2023

DELHI TECHNOLOGICAL UNIVERSITY  
RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31<sup>st</sup> MARCH, 2023

RECEIPTS	2022-2023	2021-2022	PAYMENTS	2022-2023	2021-2022
I. Opening Balance a) Cash Balance b) Bank Balance i. In Current accounts ii. In Deposit accounts iii. Saving accounts	- 1,06,02,79,622.04 95,03,50,143.00 19,30,71,615.58	- 57,83,54,684.93 2,30,09,08,364.00 20,44,73,798.30	I. Payments a) Establishment Expenses b) Academic Expenses c) Administrative Expenses d) Transportation Expenses e) Repair and Maintenance f) Finance Costs g) Prior Period Expenses	1,06,13,43,661.00 14,07,46,816.00 34,47,32,013.28 1,57,361.00 14,34,11,719.00 1,67,106.02 2,46,10,559.00	98,85,79,208.00 12,26,14,784.00 29,82,70,328.00 63,638.00 13,21,82,216.27 4,18,413.56 36,88,790.00
II. Grant Received a) From Government of India b) From State Government (i) For Capital Expenditure (ii) For Revenue Expenditure c) From Other sources (details) (Grants for capital & revenue exp / to be shown separately, if available)	- 15,00,00,000.00 41,00,00,000.00 -	- 12,00,00,000.00 41,00,00,000.00 -	II. Payments against Earmarked / Endowment Fund	36,63,11,481.21	49,42,62,587.45
III. Academic Receipts	1,83,61,03,018.83	1,62,54,94,144.86	III. Payment against Sponsored Projects / Schemes	-	-
IV. Receipts against Earmarked / Endowment Funds	1,15,89,72,792.45	1,10,54,43,616.28	IV. Expenditure Out of Corpus Fund	-	-
V. Receipts against Corpus Fund	-	-	V. Investment and Deposits made a) Out of Earmarked / Endowment Funds b) Out of own funds (Investments-Others)	2,75,17,56,512.00 1,21,06,26,925.00	1,50,36,94,161.00 38,64,15,725.00
VI. Receipts against Sponsored Fellowships and Scholarships	-	-	VI. Term Deposits with Scheduled Banks	-	-
VII. Interest on Investments from a) Earmarked / Endowment Funds b) Other Investments c) Corpus Fund	8,02,10,236.00 1,21,03,925.00 2,32,04,992.00	8,43,99,422.00 78,05,441.00 1,94,12,910.00	VII. Expenditure on Fixed Assets and Capital Works - in - Progress a) Fixed Assets out of Grant b) Capital Works - in - Progress out of Grant a) Fixed Assets out of NGF b) Capital Works - in - Progress out of NGF	18,20,51,425.54 3,15,46,865.00 13,22,74,059.00 1,90,98,913.00	13,19,75,466.13 1,06,49,802.00 10,43,46,315.00 3,85,48,945.00
VIII. Interest Received on a) Bank Deposits b) Loan and Advances c) Saving Bank Accounts	- - 68,08,808.00	- - 64,11,849.00	VIII. Other Payments including Statutory payments	31,66,32,525.41	31,24,48,537.04



IX. Term Deposits with Scheduled Banks encashed	-	-	IX. Refund of Grants	-
X. Investments encashed				
a) Out of Earmarked / Endowment Funds	1,30,25,09,348.00	-	N. Deposits and Advances	5,98,60,173.00
b) Out of own funds (Investments- Others)	38,64,15,725.00	-		1,22,00,652.00
XI. Other Income (Including Prior Period Income)	-	-	XI. Other Payments	-
XII. Deposits and Advances	4,03,16,318.00	41,26,879.00	XII. Closing Balance	
			a) Cash in hand	
			a) Bank Balance	
			In Current accounts	88,76,16,736.96
			In Deposit accounts	10,54,35,919.00
			In Saving accounts	28,16,22,257.45
XIII. Miscellaneous Receipts including Statutory Receipts	44,97,06,983.97	28,62,29,842.70		1,06,02,79,622.04
XIV. Any other Receipts	-	-		95,03,50,143.00
				19,30,71,618.58
Total	8,06,00,53,530.87	6,75,30,60,952.07	Total	8,06,00,53,530.97
				6,75,30,60,952.07

For M.A.M. & Associates  
Chartered Accountants

*Rupak*  
Ajay Kumar Gupta  
(Partner)  
M.No. 095390  
UDIN :-



For Delhi Technological University

*Rupak*  
Rupak Kumar  
(Sr. AO)

*Mahesh Kumar*  
Mahesh Kumar  
(DCA)

*Narendra Dev*  
Narendra Dev  
(Controller of Finance)

*Prof. Mathhusudan Singh*  
Prof. Mathhusudan Singh  
(Registrar)

*J.P. Saini*  
J.P. Saini  
(Vice Chancellor)

Place : New Delhi  
Dated : 11th September, 2023

## DELHI TECHNOLOGICAL UNIVERSITY

## SCHEDULE IX: CAPITAL FUND

Particulars	Amount in Rupees	
	As at 31st March, 2023	As at 31st March, 2022
Balance at the beginning of the year	8,227,682,650.17	3,990,871,918.20
Add: Grants from UGC, Govt of India and State Govt. to the extent authorized for capital expenditure		
Add: Adjustments made in Various earmarked Funds	150,000,000.00	120,000,000.00
Add: Excess Depreciation charged earlier now corrected	(633,982,420.40)	606,606,207.48
Add: Purchased out of Facilities & Service Charges, Exam and Student Welfare		56,166,865.00
Less: Depreciation charged on assets as per audit para	151,372,982.00	142,895,260.00
Less: Debit Balance of Liabilities written off		(610,039.00)
Less: IDS of NHTL wrongly credited to Miscellaneous receipts in 2019-2020 now rectified	(76,149.00)	
Add: Assets recorded as per Audit Para	(707,090.00)	
Add: Surplus Being Excess of Income Over Expenditure		4,175,677.00
Closing Balance at the End of the Year	521,017,818.17	307,846,761.49
Less: Deficit Being Excess of Expenditure Over Income	8,118,387,831.09	5,227,657,650.17
Closing Balance at the End of the Year	8,118,387,831.09	5,227,652,650.17

## SCHEDULE IX: CORPUS FUND

Particulars	Amount in Rupees	
	As at 31st March, 2023	As at 31st March, 2022
Balance at the beginning of the year	160,195,422.00	437,375,419.00
Add: Corpus Fund Donation		
Add: Interest on Corpus Fund		
Add: Interest Accrued on Corpus Fund	17,283,925.00	16,070,850.00
Less: Capital Expenditure Brought Out of Corpus Fund	7,717,225.00	6,749,183.00
Closing Balance at the End of the Year	185,226,572.00	460,195,422.00

Corpus Fund Balance is Represented By:

Fixed Deposits	473,516,801.00	438,615,537.00
Interest Accrued on FDR		
TDS	7,747,225.00	6,749,453.00
Bank Balance		1,051,731.00
	2,910,815.00	16,988,601.00
Less: Transferred from Facilities and Charges Account	484,174,841.00	463,405,375.00
Less: TDS refund		(1,909,285.00)
Less: TDS/Labour Cess Deducted paid from other accounts	1,051,731.00	
	185,226,572.00	(1,300,618.00)
		460,195,422.00



Govt. of NCT of Delhi  
 Delhi Technological University  
 (Formerly Delhi College of Engineering)  
 Shahbad Daulatpur, Bawana Road, Delhi 110042.  
 GFR 12-C [SEE RULE 239]

**AUDITED UTILIZATION CERTIFICATE OF GRANT- IN- AID FOR THE FY 2022-23**  
 (PERIOD FROM 01.04.2022 TO 31.03.2023)

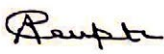
SN	DETAILS	AMOUNT (IN RS.)
01	Un spent amount of the FY 2021-22 (Opening balance for FY 2022-23)	NIL
02	GIA 1 <sup>st</sup> instalment released	14,00,00,000
03	GIA 2 <sup>nd</sup> instalment released	14,00,00,000
04	GIA 3 <sup>rd</sup> instalment released	28,00,00,000
	<b>Total</b>	<b>56,00,00,000</b>
05	Expenditure during the period 01.04.2022 to 31.03.2023	56,00,00,000
	SALARY- 30,00,00,000	
	GENERAL- 11,00,00,000	
	CAPITAL- 15,00,00,000	
	Un-spent amount of the FY 2022-23	NIL

Certified that out of Rs.56,00,00,000/- (GIA) of total fund i.e. un-spent balance of previous year (2021-22), GIA during the FY 2022-23 the DTU has utilized a sum of Rs.56,00,00,000/- during the period of 01.04.2022 to 31.03.2023 and NIL is remained unutilized as on 01.04.2023.

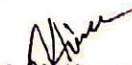
Certified that I have satisfied that the condition on which the GIA was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that the money was actually utilizing for the purpose for which it was sanctioned.

Kind of checks exercised:

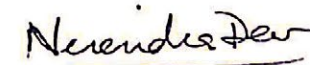
1. As per Delegation of Financial Powers, DTU
2. As per GFR-2017 provisions
3. As per existing R&P Rules

  
 Ajay Kumar Gupta  
 Chartered Accountant  
 M.No. 095390

  
 Ajay Kumar Gupta  
 (Sr.A.O/ DDO)

  
 Rajesh Kumar  
 (Sr. A.O)

  
 Mahesh Kumar  
 (DCA)

  
 Nirendra Dev  
 (Controller of Accounts)

  
 Prof. Madhusudhan Singh  
 (Registrar, DTU)

## DTU RANKINGS 2022 & 2023



**TIMES TOP 170 Engineering Institute Rankings 2022**

**Optimal Media Solutions**

Partnered with Avance India to conduct its eighth Engineering Institute 2022 survey to determine the top engineering institutes in India.

RANK	ENGINEERING INSTITUTES
<b>1</b>	<b>DELHI TECHNOLOGICAL UNIVERSITY, DELHI</b>
2	Netaji Subhas University of Technology, Delhi
3	SRM Institute of Science and Technology, Chennai
4	College of Engineering, Pune
5	Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar
6	Koneru Lakshmaiah Education Foundation (KLEF) Deemed To Be University, Vijayawada
7	Sathyabama Institute of Science and Technology, Chennai
8	BMS College of Engineering, Bengaluru
9	Amity School of Engineering and Technology, Noida
10	National Institute of Technology, Delhi
11	PSG College Of Technology, Coimbatore
12	Institute of Engineering & Management (IEM), Kolkata
13	Faculty of Engineering & Technology (Manav Rachna International Institute of Research & Studies), Faridabad
14	REVA University, Bengaluru
15	JIS College of Engineering, Kalyani
16	IcftaiTech, Hyderabad
17	Alliance College of Engineering & Design, Alliance University, Bangalore
18	Hindustan Institute of Technology & Science, (Deemed to be University), Chennai
19	SVKM's Dwarkadas J. Sanghvi College of Engineering, Mumbai
20	Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai



**DELHI TECHNOLOGICAL UNIVERSITY**

**INDIA TODAY RANKING 2023**



**TOP 10 GOVERNMENT COLLEGES**

<b>1</b>	<b>Indian Institute of Technology Delhi (IIT Delhi), New Delhi</b>
<b>2</b>	<b>Indian Institute of Technology Bombay (IIT Bombay), Mumbai</b>
<b>3</b>	<b>Indian Institute of Technology Kanpur (IIT Kanpur), Kanpur</b>
<b>4</b>	<b>Indian Institute of Technology Kharagpur (IIT Kharagpur), Kharagpur</b>
<b>5</b>	<b>Indian Institute of Technology Roorkee (IIT Roorkee), Roorkee</b>
<b>6</b>	<b>Indian Institute of Technology Guwahati (IIT Guwahati), Guwahati</b>
<b>7</b>	<b>Netaji Subhas University of Technology, New Delhi</b>
<b>8</b>	<b>Delhi Technological University, New Delhi</b>
<b>9</b>	<b>National Institute of Technology Grandhinagar (IIIT Gandhinagar)</b>
<b>10</b>	<b>National Institute of Technology Allahabad (IIIT Allahabad), Prayagraj</b>



## EDITORIAL MEMBERS



**Prof. Neeta Pandey**  
Director, IQAC



**Dr. Shilpa Pal**  
Associate Director, IQAC



**Prof. Poornima Mittal**  
Coordinator, IQAC



**Prof. Girish Kumar**  
Coordinator, IQAC



**Prof. Anil Kumar**  
Coordinator, IQAC



**Dr. Prashant Giridhar  
Shambharkar**  
Dy. Coordinator, IQAC



**Dr. Harikesh**  
Dy. Coordinator, IQAC



**Dr. Manjeet Kumar**  
Dy. Coordinator, IQAC



**Mr. Yashdeep Singh**  
Dy. Coordinator, IQAC



**Ms. Jyoti Sharma**  
IQAC, Staff



**Ms. Jyoti**  
IQAC, Staff



**Mr. Sunil Kumar**  
IQAC, Staff



दिल्ली प्रौद्योगिकी विश्वविद्यालय  
**Delhi Technological University**

