DELHI TECHNOLOGICAL UNIVERSITY

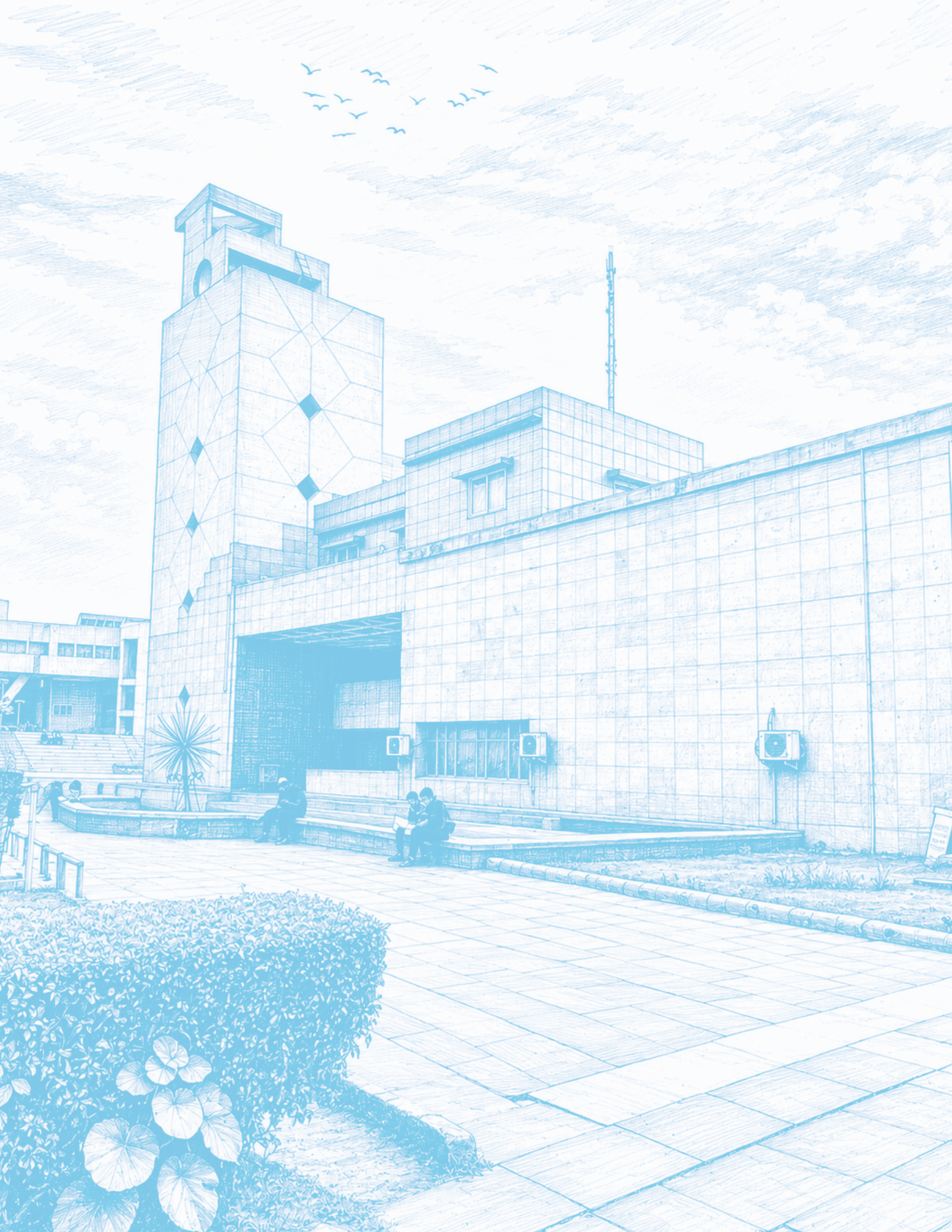
(Formerly Delhi College of Engineering)

9th RESEARCH & INNOVATION EXCELLENCE AWARDS-2026

1st JANUARY, 2025 TO 31st DECEMBER, 2025



A COMPENDIUM OF **CITATION, INNOVATION & RESEARCH AWARDS**



DELHI TECHNOLOGICAL UNIVERSITY

(Formerly Delhi College of Engineering)

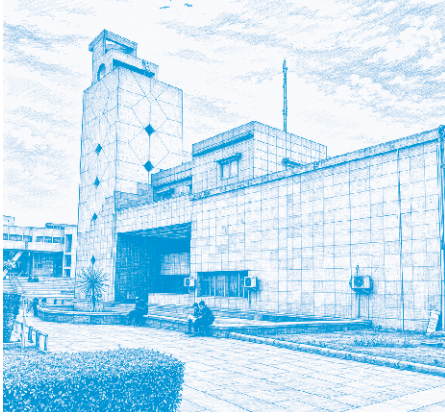
9th RESEARCH & INNOVATION EXCELLENCE AWARDS-2026

1st JANUARY, 2025 TO 31st DECEMBER, 2025



A COMPENDIUM OF **CITATION, INNOVATION & RESEARCH AWARDS**


दिल्ली प्रौद्योगिकी विश्वविद्यालय
(दिल्ली कॉलेज ऑफ इंजीनियरिंग)



Research & Innovation at the UNIVERSITY

The Delhi Technological University (DTU) was established through Act 6 of 2009 passed by the Legislative Assembly of the National Capital Territory (NCT) of Delhi, which provided for the reconstitution of the erstwhile Delhi College of Engineering. The University traces its origins to 1941, when it was founded as Delhi Polytechnic, based on the recommendations of the Wood and Abott Committee (1938). Since then, DTU has been at the forefront of technical education, research, and innovation for more than eight decades.

As a non-affiliating teaching-cum-research University, DTU is committed to providing high-quality education at the undergraduate and postgraduate levels. The University promotes scientific inquiry through state-of-the-art research infrastructure, and encourages intellectual property protection, technology business incubation, product innovation, and outreach across science, technology, management, and allied disciplines.

The University currently offers 17 Undergraduate Engineering Programmes, 25 Postgraduate Engineering Programmes, 11 M. Tech. by Research Programmes, 5 MBA Programmes, 03 M.Des. Programmes, 5 M.Sc. Programmes, 05 Integrated B.Sc.-M.Sc. Programmes, and 01 M.A. Economics Programme. In addition, DTU offers three undergraduate programmes, B. Des., BBA, and BA (Hons) Economics. Across the broad disciplines of Engineering, Science, Management and Humanities, DTU offers 28 Ph.D. Programmes. Research engagement is encouraged from the undergraduate level, and is reflected in the University's strong publication output, intellectual property filings, and innovations arising from its incubation ecosystem. In 2025, DTU filed over 55 patents and 13 were granted.

DTU faculty members regularly undertake consultancy and sponsored research projects supported by government bodies, including AICTE, DST, ANRF, DBT, UGC, CSIR, ICMR, DRDO, and ICSSR, as well as private organisations. To further boost research and innovation, the University introduced several faculty research support schemes in 2024. Under these schemes, 02 Equipment Matching Grants, 17 Young Faculty Grants, and 19 Faculty Interdisciplinary Research Projects worth Rs. 2.92 Crore, were awarded to the faculty members of DTU in the year 2025.

During the year, DTU's Scopus h-index reached to 149, with 1,513 Scopus-indexed publications and 13 patents granted by the Indian Patent Office. In addition, nine new sponsored research projects, with a combined value of Rs. 5.42 crore, were sanctioned during the year, including a Rs. 3 crore project awarded by MeitY alone. The University also provides financial support to faculty members and students for presenting research papers at national and international conferences, and covers patent-filing costs.

DTU also promotes student-led innovation through interdisciplinary teams engaged in product development and participation in international design competitions. At the DTU Innovation and Incubation Foundation (DTU-IIF), around 120 startups are currently being incubated at various stages of development.

The University's research activities span a wide range of thrust areas, including clean energy technologies, solar photovoltaics, electric vehicles, smart grids, material testing, fracture mechanics, rock and geo-mechanics, structural dynamics, computational fluid dynamics, environmental monitoring, advanced automobile solutions, metro technology and systems, nano-scale devices, biosensors, robotics and machine vision, quantum technologies, lithium-ion batteries, advanced semiconducting materials and conducting polymers, CAD, plasma physics, VLSI design, embedded systems, machine learning, software testing, intelligent power systems, cybersecurity, network management, knowledge and innovation management, and other socially relevant technologies.

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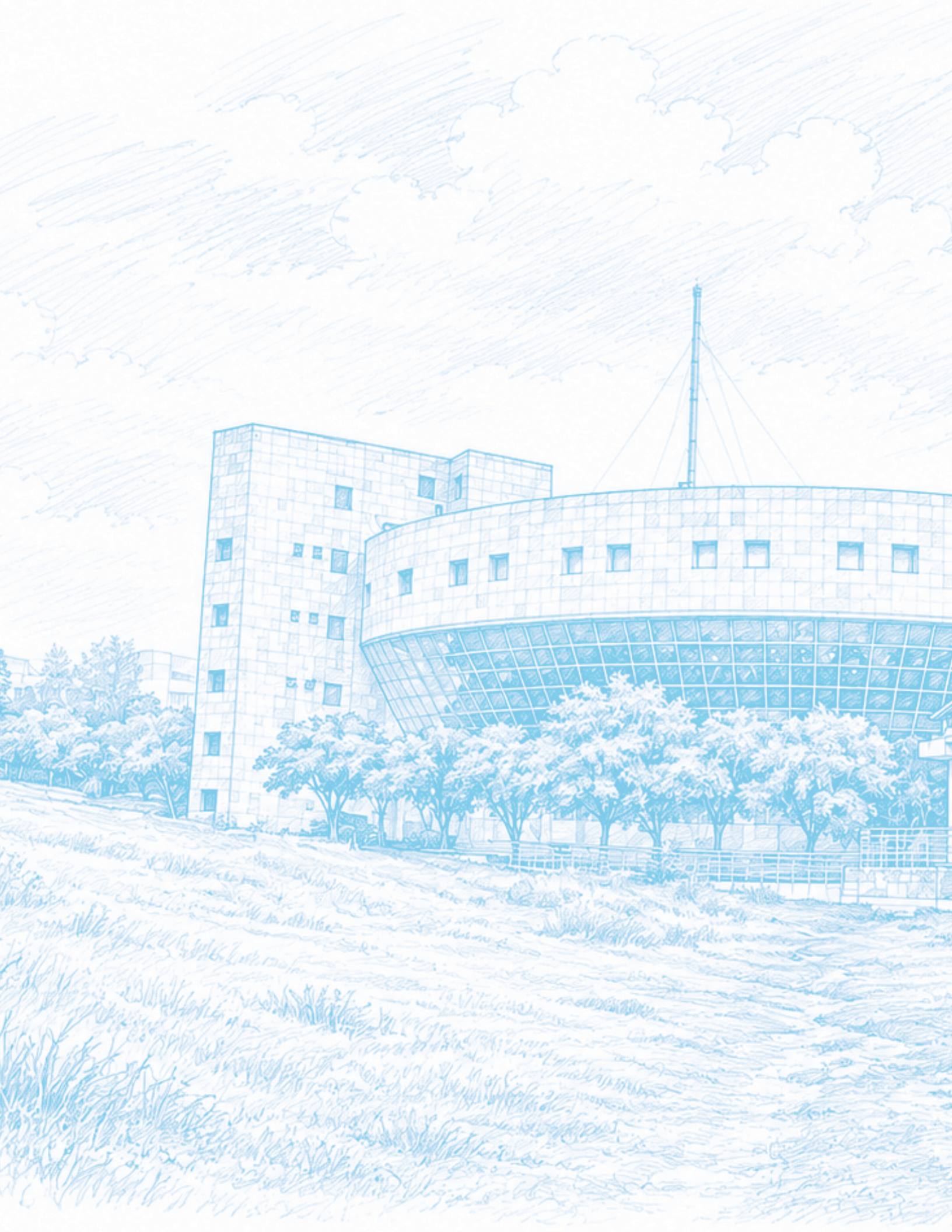
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From the Desk of the

VICE CHANCELLOR



Delhi Technological University continues to build upon its glorious legacy of over 85 years as a pioneer in technical education, research, and innovation. From its origins as Delhi Polytechnic to its emergence as a leading technological University, DTU has remained committed to advancing knowledge and creating an environment where ideas can be transformed into meaningful outcomes. Today, the University brings together diverse disciplines across engineering, technology, sciences, management, and allied areas, fostering collaboration and encouraging its students, scholars, and faculty to address contemporary challenges with creativity, rigour, and purpose.

Research and innovation are central to DTU's pursuit of excellence, bridging the gap between high-level discovery and real-world application. Recognizing this important role, DTU instituted the Research and Innovation Excellence Awards (RIEA) as a platform to acknowledge and celebrate the achievements of its faculty, researchers, and scholars whose work contributes to the advancement of knowledge and the development of innovative solutions. Through these awards, DTU continues to uphold its commitment to originality, academic rigour, responsible research, and innovation that creates tangible societal impact.

I am pleased to share that the academic year 2025–26 witnessed significant achievements, with 50 Citation Awards, 480 Published Paper Awards, 12 Innovation Awards, 2 Sponsored Research Project Awards, and 3 Awards for Submission of Ph.D. Thesis within the Stipulated Period, being conferred. These recognitions reflect the sustained commitment of our faculty, researchers, and scholars and the growing strength and diversity of research at DTU.

The achievements being recognized today are not merely individual accomplishments, but important milestones in DTU's larger institutional journey. Excellence in publications, citations, innovation, sponsored research, and doctoral research collectively enhances the University's academic standing, fosters meaningful collaborations, and strengthens the impact and relevance of research for industry, government, academia, and society.

As we enter the next phase of DTU's growth, I encourage our faculty members, researchers, and students to pursue ambitious questions, embrace interdisciplinary collaboration, and remain open to new approaches and emerging technologies. I also urge our research community to nurture a culture in which excellence is accompanied by integrity, curiosity by perseverance, and innovation by responsibility. These Research and Innovation Excellence Awards are, therefore, more than a recognition of past achievements.

I extend my heartfelt congratulations to all the award recipients for their outstanding contributions. Your achievements strengthen the academic and research foundations of Delhi Technological University and inspire the wider DTU community to pursue excellence with renewed determination.

I am confident that the ideas, discoveries, and innovations emerging from DTU will continue to enhance the University's stature and contribute meaningfully to the progress of our society and our nation. Let us continue to build a research ecosystem where knowledge creates possibilities, innovation creates impact, and excellence creates a lasting legacy.

I wish all the awardees continued success in their academic and research endeavours.

Prof. Prateek Sharma
Vice Chancellor, DTU



Prof. Prateek Sharma
Vice Chancellor, DTU



Prof. Girish Kumar
DEAN
Research and Development
DTU



Prof. Jayasimhadri M
ASSOCIATE DEAN
Research and Development
DTU



Dr. Asmita Das
ASSOCIATE DEAN
Corporate Relations
DTU

RESEARCH AND DEVELOPMENT OFFICE



Dr. Lovleen Gupta
Coordinator
(Awards/Events/Outreach)



Dr. Naushad Ahmad Ansari
Coordinator (Govt., PSUs and Institutions Liaison)



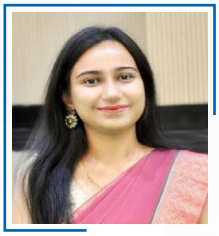
Dr. Bharti Singh
Coordinator (Sponsored Research Projects)



Dr. Anurag Goel
Coordinator (ERP/Automation/ Website/social media)



Dr. Renuka Bokolia
Coordinator (Consultancy Projects & Post Doctoral Fellowship)



Ms. Priya Singh
Coordinator (University Sponsored Projects/Schemes)



Dr. Kavinder Singh
Coordinator (Store and Purchase)



Dr. Renuka Prasad
Deputy Coordinator (Sponsored Research Projects)



Dr. Bijendra Prasad
Deputy Coordinator (Sponsored Research Projects)



Dr. Manish Kumar
Deputy Coordinator (Faculty Schemes Projects)



Sh. Amit
Deputy Coordinator (Store and Purchase Projects)

CORPORATE RELATIONS OFFICE



Dr. Deepali Malhotra
Assistant Director
(Industry Liaison and CSR)



Dr. Rajeev Kumar
Assistant Director
(IPR and Technology Transfer)



Dr. Ankita Matta
Deputy Coordinator
(Industry Liaison and CSR)



Ms. Anukriti Kaushal
Deputy Coordinator
(IPR and Technology Transfer)



PREFACE

Delhi Technological University has always been committed to academic excellence, innovation, and impactful research. Over the past year, our faculty and students have continued this tradition through high-quality publications, innovative projects, and patents addressing real-world challenges.

The 9th Research & Innovation Excellence Awards Ceremony 2026 reflects the dedication, hard work, and research excellence of our awardees. Their achievements are a source of pride for the University and an inspiration to the entire DTU community. At the same time, these achievements remind us of the opportunities and responsibilities that lie ahead.

The Office of Research and Development remains committed to supporting researchers by providing the necessary resources and an enabling environment to transform innovative ideas into meaningful scientific and technological outcomes. This compendium brings together these achievements and intellectual contributions, reflecting DTU's continued commitment to research, innovation, and national development and progress.

I sincerely appreciate the continued support of the University leadership, the efforts of the organising committees, and, most importantly, our researchers whose contributions continue to bring recognition to DTU at the national and international levels.

I extend my sincere gratitude to the scrutiny committee for the "Award for Published Papers of the Researchers of Delhi Technological University": Prof. M. Jayasimhadri, Prof. Nand Kumar, Prof. Ram Singh, Prof. Anil Kumar, Prof. Dheeraj Joshi, Prof. Virendra Ranga, Dr. Naushad Ansari, Dr. Satyabrata Adhikari, Dr. Bharti Singh, Dr. Deepali Malhotra, Dr. Yashdeep Singh, Dr. Sanjay Kumar, Dr. Rajeev Kumar, Dr. Sonam Rewari, Dr. Rahul Thakur, Dr. Deepti Aggarwal, Dr. Anurag Goel, Dr. Mamta Rani, Dr. Lovleen Gupta, for their valuable insights and dedication.

I also express my appreciation to the scrutiny committee for the "Award for Citation of the Researchers of Delhi Technological University" comprising the following members: Prof. M. Jayasimhadri, Prof. Dinesh Kumar, Prof. Anil Kumar, Prof. Seba Susan, Prof. Alka Singh, Dr. Asmita Das, Dr. Vikas Gupta, Dr. Manjeet Kumar, Dr. Lovleen Gupta.

Our heartiest appreciation to the scrutiny committee for the "Innovation Research Awards", Prof. M. Jayasimhadri, Prof. C.P Singh, Prof. Dheeraj Joshi, Dr. Raminder Kaur, Dr. Rajeev Kumar, Dr. Lovleen Gupta for their efforts and time.

Our thanks are due to the scrutiny committee for the "Sponsored Research Project Award and PhD Thesis Within Stipulated Period Award": Prof. M. Jayasimhadri, Prof. P.K.Suri, Dr Dhirendra Kumar, Dr. Mayank Kumar, Dr. Bharti Singh, Dr. Lovleen Gupta for their diligent efforts, expert guidance, and steadfast support.

Delhi Technological University remains dedicated to nurturing an environment where excellence becomes a defining standard rather than a mere goal. Warmest congratulations to all award recipients, and best wishes to the entire academic community for a productive and successful year ahead.

Prof. Girish Kumar (Dean-R&D)
Prof. M. Jayasimadri (Associate Dean-R&D)

DELHI TECHNOLOGICAL UNIVERSITY

Established under Govt. of Delhi Act 6 of 2009
(Formerly Delhi College of Engineering)
BAWANA ROAD, SHAHBAD DAULATPUR, DELHI-42

F.DTU/Council/BOM-Notification/71/2025/565 Date : 22/01/2025

NOTIFICATION

The Board of Management of the Delhi Technological University in its 53rd meeting held on 11th December, 2024, vide supplementary agenda number 53.15, approved the following Guidelines for "Sponsored Research Project Award" for Principal Investigator of Delhi Technological University:

Guidelines for "Sponsored Research Project Award" for Principal Investigator of Delhi Technological University

Sponsored research project awards shall be given to principal investigator of Delhi Technological University (DTU) in the recognition to receive the sponsored research grant from any funding agency (National and International). The award aims to motivate and recognize individual excellence in research and development work. The award will be given for the sponsored project completed in each year (1st January - 31st December). Principal investigator from DTU can apply for the award. A notice will be circulated annually and the application form for getting the details of completed sponsored research project qualifying the selection criteria will be submitted to the concerned section.

Definitions

"University" shall mean Delhi Technological University (DTU), Delhi.

"Sponsored Research Project" means research projects sponsored by Government, national/international agencies. Generally, the project cost including expenditure towards manpower, equipment, consumables and support services of the University is borne by the sponsor and there is no honorarium/payment to principal investigator.

"Sponsor" means the organization that offers a Project to the University and provides necessary financial support for the successful completion of the project in time.

"**Principal Investigator (P.I.)"** means, a faculty/ scientist /emeritus fellow/ chair professor/ visiting professor at the University with the necessary expertise and competence to conduct a sponsored research work. Normally, the faculty/scientist/ emeritus fellow/chair professor/ visiting professor who submits the project proposal and is instrumental in getting the project funding is the Principal Investigator (PI).

"Co-Principal Investigator (Co-PI)" means a faculty/ scientist/ emeritus fellow/ chair professor/ visiting professor at the University with necessary expertise and competence to conduct a Sponsored Research work. A Co-PI may share equal responsibility with the PI for project oversight, budget management, and reporting as part of a multi-investigator team or may direct a particular portion of the project and retain limited administrative oversight over the grant.

Research Faculty Development Fund (RFDF) means a sub account created by the R&D Office under R&D account for individual academic staff (faculty/ scientist/ emeritus fellow/ chair professor/ visiting professor) where the Sponsored Research Project Award shall be credited. The University overhead charges/ share from research projects are also transferred to this account.

Prize Money and Selection Criteria

1. The award money shall be given after the successful completion of the project.

2. The award money shall be 10% the cost of fund utilization of the sanctioned project to DTU. The fund utilization shall exclude the overhead charges.

3. The maximum ceiling amount for the award money shall be Rs. 10 Lakh. Fifty percent (50%) of the award money shall be given as cash prize to Principle Investigator and Co-investigator(s). And remaining Fifty percent (50%) prize money shall be credited to RFDF account of Principal Investigator and Co-investigator(s).

4. For consortia project, award money distributed to member/PI shall be based on the amount utilized under sanctioned project to DTU.

5. Distribution of Award Money among PI and Co-PI

   (a) The PI will decide the distribution of award money among the Co-PI(s)

   (b) A minimum 25% and maximum 50% prize money shall be given to Co-PI(s)

   (c) The distribution of the award money of Co-PI shall be among the DTU faculty/scientist/emeritus fellow/chair professor/ visiting professor. In case if there is any Co-PI outside DTU, the part of the award money of external Co-PI will not be deducted from the award money of the Co-PI of DTU faculty/scientist/emeritus fellow/chair professor/ visiting professor.

(Prof. Madhusudan Singh)
Registrar

F.DTU/Council/BOM-Notification/71/2025/565 Date : 22/01/2025

Copy to:-

1. PA to V.C. for kind information of the Vice Chancellor
2. PA to Registrar for kind information of the Registrar
3. All Deans/ HODs
4. Guard file

(Madhuresh Kumar Jha)
Section Officer (Council)

DELHI TECHNOLOGICAL UNIVERSITY

Established under Govt. of Delhi Act 6 of 2009
(Formerly Delhi College of Engineering)
BAWANA ROAD, SHAHBAD DAULATPUR, DELHI-42

F.DTU/Council/BOM-Notification/71/2025/566 Date : 22/01/2025

NOTIFICATION

The Board of Management of the Delhi Technological University in its 53rd meeting held on 11th December, 2024, vide supplementary agenda number 53.17, approved the Guidelines for Incentivizing Students and their respective Supervisors for completing Ph.D within minimum stipulated period as below:

Guidelines for the Award for Submission of Ph.D Thesis within Stipulated Period

A. PREAMBLE:

In the recognition of importance of the research work and to motivate the individual excellence in research, the cash award will be given to Ph.D scholars and their respective supervisors for submitting the Ph.D thesis within the stipulated period as per the Ph.D Ordinance.

B. DEFINITIONS:

i. **"University"** shall mean Delhi Technological University (DTU), Delhi.
ii. **"Supervisor"**: An individual who is a regular faculty member approved by Academic Council to guide/supervise Ph.D candidate of the University.
iii. **"Ph.D Candidate"**: An individual who is registered for a Ph.D degree in the Delhi Technological University.
iv. **"DTU Ph.D Ordinance"**: The rules with which PhD candidate is governed during the Ph.D period.

C. NATURE OF THE AWARD:

The award will be granted to Ph.D students studying in various departments and their respective supervisors. The candidates will be awarded cash prize along with a certificate of merit.

D. ELIGIBILITY CRITERIA:

The award will be granted if the following conditions are satisfied:

i. The Ph.D thesis has been submitted by the candidate in the minimum period as per DTU Ph.D Ordinance.
ii. The Ph.D candidate has completed Course work, Comprehensive Examination and approval of Research Plan within the stipulated period as prescribed in DTU Ph.D Ordinance.
iii. **Three publications** have been made in SCI/SCIE/SSCI indexed journals.
iv. The Ph.D candidate has not made any mandatory publications (as per Ph.D Ordinance) in the journals which seeks Article Processing Fees/ Charges.

v. All the progress report of the candidate during the Ph.D duration must be satisfactory.

vi. The Ph.D thesis has been recommended by the both the examiners with/without minor revisions for the award of the degree.

E. AWARD AMOUNT AND DISTRIBUTION:

A cash prize of Rs. 50,000/- will be awarded to the Ph.D student and cash prize of Rs. 50,000/- will be awarded to the thesis supervisor/joint supervisor along with the certificate of merit.

i. When there is more than one supervisor, equal amount will be distributed to all the supervisors/joint supervisors.

ii. When there are external supervisors, then equal amount will be deducted from the total amount.

F. PROCEDURE FOR THE AWARD:

i. A notice will be circulated annually and the entry form will be circulated and a committee be constituted by Hon'ble Vice Chancellor to determine the eligibility of the entries.

ii. A certificate be obtained from the supervisor through DRC Chairperson regarding the completion of comprehensive examination within the stipulated period as per the DTU Ph.D Ordinance.

iii. A certificate be obtained from the supervisor through DRC Chairperson regarding the recommendation of thesis with/without minor revisions for the award of the degree.

iv. A certificate be obtained from the supervisor through DRC Chairperson declaring the satisfactory progress reports of the Ph.D candidate.

G. DISCLAIMER:

The DTU reserves the right to consider/reject the application, decide the date, and any other matter which is not specified in the guidelines. The decision of DTU in selecting the awardees is final and binding.

H. POWER TO REMOVE DIFICULTIES:

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

(Prof. Madhusudan Singh)
Registrar

F.DTU/Council/BOM-Notification/71/2025/566 Date : 22/01/2025

Copy to:-

1. PA to V.C. for kind information of the Vice Chancellor
2. PA to Registrar for kind information of the Registrar
3. All Deans/ HODs
4. Guard file

(Madhuresh Kumar Jha)
Section Officer (Council)

DELHI TECHNOLOGICAL UNIVERSITY

Established under Govt. of Delhi Act 6 of 2009
(Formerly Delhi College of Engineering)
BAWANA ROAD, SHAHBAD DAULATPUR, DELHI-42

No.F. DTU/Council/BoM-Notification/66/2024/481 Date : 03/7/2024

NOTIFICATION

The Board of Management of the University in its 50th meeting held on 14.03. 2024, vide agenda number 50.32 approved the following Guidelines for Innovation Res earch Awards for the Inventors of Delhi Technological University as under:

Guidelines for Innovation Research Awards for the Inventors of Delhi Technological University

The cash award will be given to inventors in recognition of the grant of their Patent applications in India and/ or IP5. The IP5 refers to a group of the five largest intellectual property offices (IPOs) in the world, that includes the United States Patent and Trademark Office (USPTO), the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), and the State Intellectual Property Office of the People's Republic of China (SIPO, now CNIPA - China National Intellectual Property Administration). The awards are aimed to motivate and recognize individual excellence in innovation. The awards will be given for the patents granted in each year (1st January - 31st December). Inventors from DTU can apply for the award. A notice will be circulated annually and the application form for getting the details of granted patents qualifying the selection criteria will be submitted to the concerned section.

DEFINITIONS:

1. "University" shall mean Delhi Technological University (DTU), Delhi.
2. "Patent application": A document filed in a patent office for grant of exclusive rights pertaining to a novel invention, which has not been assigned a patent grant/ issue number but has an application number.
3. "Patent": A document appearing in a patent office journal having both patent application number and corresponding grant/ issuance number, providing exclusive rights on an invention and its processes to its applicant(s).
4. "Faculty Member of the University": An individual who is a regular faculty member of the University.
5. "University Student": An individual who is registered for any degree in the Delhi Technological University.
6. "Inventor": An individual who is either a faculty member of the university or a university student and his/ her name appears in the list of inventors on either the certificate of Patent Grant or equivalent.
7. "Applicant": The person/ organization who has the right to file the patent application for the protection in the patent office.
8. "Patentee": The person/ organization/ entity to whom a patent is granted.

PRIZE MONEY:

A cash prize of Rs. 1,00,000/ - (one lakh) will be awarded along with the certificate of merit.

SELECTION CRITERIA:

(i) The patent application must have been GRANTED by either the Indian patent office or any of the offices of IP5.

(ii) One of the patentees must be 'Delhi Technological University' with a minimum of 20% of financial share in case of mortgage/ commercialization/ monetization of the granted patent.

(iii) The original term of the granted patent must be 20 years from the date of the filing.

(iv) The followed up inventions (either in the same country or foreign filings) linked to a particular priority date, for which award has already been granted, will only be considered for the certificate and not for the prize money.

REGULATIONS FOR DIVISION & DISTRIBUTION OF AWARD PRIZE:

Case 1: Equal distribution of the prize money amongst the inventors from the University.

Case 2: If one (or more) of the inventor(s) is/ are external to the university and university is one of the applicants, then the prize amount will be proportional to the financial share of University (i<=Financial_share<=100) as decided in NoC/ MoU at the time of filing patent application.

POWER TO REMOVE DIFFICULTIES:

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

The guidelines shall be implemented for the period of 1st January to 31st December of the respective calendar year.

(Prof. Madhusudan Singh)
Registrar

No.F. DTU/Council/BoM-Notification/66/2024/481 Date : 03/7/2024

Copy to:

1. PA to V.C. for kind information of the Vice Chancellor
2. PA to Registrar
3. All Deans
4. Associate Dean, IRD
5. HODs for vide circulation among the faculty and students of their department
6. Head, Computer Centre (with a request to upload on website)
7. Guard file

(Dr. Lokesh Garg)
Assistant Registrar (Council)

DELHI TECHNOLOGICAL UNIVERSITY

Established under Govt. of Delhi Act 6 of 2009
(Formerly Delhi College of Engineering)
BAWANA ROAD, SHAHBAD DAULATPUR, DELHI-42

No. F.DTU/IRD/Award/2021/01 Date: 22.01.2021

NOTIFICATION

In exercise of the powers conferred under sub-section (1) of Section 23 of the Delhi Technological University Act, 2009 (Delhi Act 6 of 2009), the Board of Management of Delhi Technological University in its 40th meeting held on 22.01.2021 vide agenda number 40.6 approved the Constitution of Award consisting of a Certificate/Citation for impact and influence measured in terms of citations earned by the researchers of Delhi Technological University for their published research work. The guidelines are as under:

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

1. Definitions:

i. **"University"** shall mean Delhi Technological University (DTU), Delhi.
ii. **Faculty Member of the University:** An individual who is a full-time faculty member of the University.
iii. **University Student:** An individual who is registered for any degree in the Delhi Technological University.
iv. **Researcher:** An individual who is either a faculty member of the university or a student involved in the research.
v. **Call of applications:** first week of January each year
vi. **Assessment year:** year for which the researchers will be assessed
vii. **Citation year:** year for which the citations shall be counted (assessment year**-2)
viii. **Referred years:** shall be (assessment year -1) & (assessment year -2)

2. Cumulative Citation Award

The cumulative citation award shall be considered annually by a committee constituted for the purpose of evaluation of the proposals from the eligible researchers of the university. The awards in each of the following categories shall be considered once in the lifetime of the researcher.

1. Category 1: Platinum

Any researcher of the university obtaining cumulative citations as reported upto 31st December of the citation year *(assessment year-2**)* either more than 5000* or, 10%* of the total cumulative citations of the university in referred years (cumulative sum of citations in citation year & citation year+1), whichever is higher, on Scopus.

2. **Category 2: Gold**

   Any researcher of the university obtaining cumulative citations as reported upto 31st December of the citation year either more than 2500* or, 5%* of the total cumulative citations of the university in referred years, whichever is higher, on Scopus.

3. **Category 3: Silver**

   Any researcher of the university obtaining cumulative citations as reported upto 31st December of the citation year either more than 1250* or, 2.5%* of the total cumulative citations of the university in referred years, whichever is higher, on Scopus.

If a researcher receives an award in any of the above categories, he/she may be awarded in the next higher category as and when he/she becomes eligible for the same. In one calendar year, the faculty will receive only a higher category award corresponding to maximum citations. Once a researcher has received an award in a higher category, he/she will not be eligible for an award in the lower category.

3. Highly Cited Paper Award

This award shall be granted annually to the papers published in journals by the researchers satisfying the following conditions:

1. The paper should be in affiliation with DTU as first/second/corresponding author and,
2. Any researcher of the university obtaining cumulative citations as reported upto 31st December of the assessment year minus one with citations more than twice* the h-index of DTU, on Scopus, as on 31st December of the assessment year minus one and,
3. The paper should be SCI/SCIE/SSCI indexed and,
4. There are no Article Processing Charges (APC) paid for publishing the paper. This excludes journals that charge extra page charges and colour print charges.

A particular paper shall be awarded once in the lifetime of a researcher.

4. Yearly Citation Award

The yearly citation award shall be considered annually by a committee constituted for the purpose of evaluation of the proposals from the eligible researchers of the university.

Early Research Impact and Influence Award

1. Any researcher of the university, obtaining total citations *(assessment year-2**)* above 200* in the citation year as reported on Scopus and,
2. The researcher should be on the roll of the university in the citation year (i.e. assessment year-2).

* ***The number may change from time-to-time as approved by Vice Chancellor and recommended by Dean IRD.***

*****For example, the award is to be granted in the year 2021, then the assessment year will be 2021 and the citation year shall be 2019 and the period shall be 1st January 2019 to 31st December 2019. The referred years shall be 2020 & 2019.***

NOTES:

i. All the publications considered for the count of total citations must be authored by the researcher claiming the award, otherwise, he/she will be debarred for participation in the award for three years.

ii. All information will be taken from Scopus (or any other agency as decided by the university from time-to-time) for evaluation of the citations.

iii. In case of Highly Cited Paper Award, if there are multiple corresponding authors in a given journal publication and the applicant is neither first nor second author, then the author occurring first amongst the corresponding authors shall be considered for this award.

iv. In case of Highly Cited Paper Award, if multiple applications for the same journal paper are received, then the application of author occurring first in the author list shall be considered for this award. However, other authors affiliating to Delhi Technological University shall be eligible for the certificate of merit.

v. The current/present impact factor, indexing (SCI, SCI expanded & SSCI) and similar information will be taken from Clarivate analytics for evaluation of the papers. Further, the undertaking regarding Article Processing Charges levied by the journal shall be taken by the applicant.

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

(Prof. Samsher)
Registrar

Copy to:

1. PS to the Hon'ble Vice Chancellor, DTU for kind information
2. All Deans
3. Registrar, DTU
4. Dean IRD
5. Associate Dean, IRD
6. All HoDs for vide circulation among the faculty and students of their department
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DELHI TECHNOLOGICAL UNIVERSITY

Established under Govt. of Delhi Act 6 of 2009
(Formerly Delhi College of Engineering)
BAWANA ROAD, SHAHBAD DAULATPUR, DELHI-42

No. F.DTU/IRD/2020/09/2534 Date: 21.07.2020

NOTIFICATION

In exercise of the powers conferred under sub-section (1) of Section 23 of the Delhi Technological University Act, 2009 (Delhi Act 6 of 2009), the Board of Management of Delhi Technological University in its 37th meeting held on 29.05.2020 vide agenda number 37.5 approved the revision in the Guidelines of Award to the Researchers of Delhi Technological University notified vide notification no: F.DTU/Council/BOM-AC/Notification/31/2018/2443 dated 12.09.2018. The revised guidelines are as under:

Guidelines for the Award for Published Paper of the Researchers of Delhi Technological University

The cash awards will be given to researchers in the recognition of importance of the published research work and to motivate the individual excellence in research. The publications considered must be listed in Science Citation Index (SCI) or SCI expanded. The awards will be granted for the journal papers published in each year (1st January – 31st December, published along with Digital Object Identifier (DOI), pagination and year of publication). Only the first author and/ or the corresponding author shall be eligible to apply for the award. A notice will be circulated annually and the entry form consisting published research papers qualifying the selection criteria will be submitted to concern section. The publication made in the journals, which seeks publication fee (article processing charges or open access charges), shall not be considered for cash awards (irrespective of the listing in the publication societies/ houses/ presses specified in the following lists). Amongst the researchers, if one or more of the authors are found with zero contribution, the paper shall not be considered for the award.

1. DEFINITIONS:

i. "University" shall mean Delhi Technological University (DTU), Delhi.
ii. Paper: Any publication appearing in journal entitled "....." excluding letters to the editor and the editorials. The publication must be electronically available online with Digital Object Identifier (DOI).
iii. Faculty Member of the University: An individual who is a regular faculty member of the University.
iv. University Student: An individual who is registered for any degree in the Delhi Technological University.
v. Researcher: An individual who is either a faculty member of the university or a student involved in the research.

vi. Author: An individual who conforms to all of the following criteria:

a) Made a significant intellectual contribution to the theoretical development, system or experimental design, prototype development, and/or the analysis and interpretation of data associated with the work contained in the article;
b) Contributed to drafting the article or reviewing and/or revising it for intellectual content;
c) Approved the final version of the article as accepted for publication, including references.
d) Contributors who do not meet all of the above criteria (a to c) may be present in the acknowledgment section of the article.
e) Omitting an author who contributed to the article or including a person who did not fulfill all of the above requirements is considered a breach of publishing ethics.
f) First Author: An individual who is either a faculty member of the university or a university student and his name appears first in the list of authors on the title page of the paper.
g) Corresponding Author: An individual who is either a faculty member of the university or a university student and his name appears first in the list of corresponding authors on the title page of the paper. As a proof of corresponding author, the researcher must provide the screen shot of the tool box of the paper submission system (say, Editorial Manager/ Scholar One) where the name of the author appears on the login page and the title of the paper claimed is listed. If there are more than one corresponding authors then the author whose name appears first on the paper submission system, shall be treated as the corresponding author for the purpose of the award.

2. AWARD CATEGORIES & SELECTION CRITERIA:

A) Outstanding Research Awards

A cash prize of Rs. 5,00,000/- will be awarded along with the certificate of merit.

Selection Criteria: The paper must be a Science Citation Index (SCI)/ Social Science Citation Index (SSCI)/ SCI expanded journal paper of impact factor at least two, and published in the following:

- Nature Journal
- Science
- Harvard Business Review

B) Premier Research Awards

A cash prize of Rs. 1,00,000/- will be awarded along with the certificate of merit.

Selection Criteria: The paper must be a journal paper of impact factor at least 3.0, for Institute of Electrical and Electronics Engineers (IEEE) Transactions and one for all others indexed in SCI/ SSCI or SCI expanded and published in the following:

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1. Proceedings of Royal Society
2. American Mathematical Society
3. American Physical Society
4. American Society for Civil Engineers (ASCE)
5. American Society for Mechanical Engineers (ASME)
6. IEEE Transactions (TRIF≥3.0)
7. Association for Computing Machinery (ACM) Transactions
8. Institute of Civil Engineering Publishing, London
9. Institute of Mechanical Engineering, London
10. American Society of Testing Materials (ASTM)
11. Nature Publishing Group

In addition to the above list, the journals with impact factor equal to or more than thirty (30) will be also be considered for the award.

C) Commendable Research Awards

A cash prize of Rs. 50,000/- will be awarded along with the certificate of merit.

Selection Criteria: The paper must be a journal paper of impact factor at least one, indexed in SCI/ SSCI or SCI expanded and published in the following:

1.IEEE Transactions (TRIF<3)
2.IEEE Journals
3.Springer
4.Elsevier (Science Direct)
5.Oxford University Press
6.Pergamon-Elsevier Science Ltd
7.Cambridge University Press
8.Wiley-Blackwell
9. Blackwell Publishing
10.John Wiley & Sons
11.Institute of Engineering and Technology (IET)
12.Biomedical Central Ltd
13.Massachusetts Institute of Technology (MIT) Press
14.Indiana University Press
15.American Meteorological Society
16.American Physiological Society
17.American Society for Microbiology
18.American Chemical Society
19.American Institute of Physics
20.Institute of Physics (IOP) Publishing Ltd.
21.Massachusetts Medical Society
22.IOS Press
23.Princeton University Press
24.Society of Industrial and Applied Mathematics
25.Proceedings of National Academy of Sciences of USA

In the commendable award category, an author shall be eligible for the cash prize for not more than three papers however the university authors of all the papers shall be eligible for the certificate.

In addition to the above list, SCI/SSCI and SCI expanded indexed journal not included in the above list having impact factor equal to or more than five shall also be considered for the award.

Approved in 37th Meeting of the Board of Management held on 29.05.2020

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3. REGULATIONS FOR DIVISION & DISTRIBUTION OF AWARD PRIZE

Case 1: If all the authors are amongst faculty member of the university, then first author will decide the individual author's contribution for the purpose of distribution of prize amount.

Case 2: If the authors are amongst the faculty member of the university and the university students, then faculty member of the university (whose name appears first in the paper) will decide the individual author's contribution for the purpose of distribution of prize amount.

Case 3: If the first author, corresponding author and other authors are the university students, then the Head of Departments of the first/ corresponding student's department (whose name appears first in the paper) will decide the individual author's contribution in consultation with the first author for the purpose of distribution of prize amount.

Case 4: If one (or more) of the author/s is/are external to the university, then the prize amount will be divided by total number of authors and the equal part (one share) of the total prize amount will be disbursed to the university contributors. The prize amount of the external author will be subtracted from the total prize amount.

Case 5: A faculty member of the university or a university student shall be permitted to claim cash prize for a maximum of three papers as author or co-author in the category of commendable research award.

Annexure 1 will be referred for evaluating the research papers for granting of award to the researchers of DTU and Annexure 2 will be referred for calculation of cash prize for distribution amongst researchers/authors of DTU.

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

The guidelines shall be implemented for the period of 1st January to 31st December of the respective calendar year.

(Prof. Samsher)
Registrar

Copy to:

1. PS to the Hon'ble Vice Chancellor, DTU for kind information
2. All Deans
3. Registrar DTU
4. Associate Dean, IRD
5. All HoDs for vide circulation among the faculty and students of their department
6. Head Computer Centre with a request to upload on website
7. Guard File

Approved in 37th Meeting of the Board of Management held on 29.05.2020

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Annexure 1

Guidelines for Evaluation of Published Paper for Research Award

1. The current/present impact factor, indexing (SCI, SCI expanded & SSCI) and other information will be taken from Clarivate analytics for evaluation of the papers. Thus, the current/present statistics including payment and indexing information of the journals will be taken for the purpose of verification by the screening/scrutiny committee.
2. The final publication date of the paper with volume and issue number (acceptance date or date on which the paper was published online will not be considered) will be considered for verifying the year of publication and pagination of the research paper under consideration.

Approved in 37th Meeting of the Board of Management held on 29.05.2020

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Annexure 2

Formula for Distribution of Awards to the Authors/Researchers

The Research Excellence Awards have been constituted in the university recently and have been effective from AY 2017. The competent authority is pleased to approve the formula for distribution of Award Money for Research Excellence Awards (F.No. DTU/IRD/597/2018/1865 dated 18/12/2018) from 2018 onwards to the Authors/Researchers of the DTU as under:

A is the total award money and there are N authors. The value of Z shall be decided by the principal author and shall be such that $0.5 \leq Z \leq 1$,

- Case 1: When there is no external author, then the minimum amount credited to each of the author shall be as,

  A*Z/N

- Case 2: When there are external authors, then the minimum amount credited to each of the author shall be as,

  (A-Y*(A/N))*Z/(N-Y)

  Where Y number of authors are external to the university

Calculations sheets are enclosed.

Approved in 37th Meeting of the Board of Management held on 29.05.2020

Sample Calculation 1

A	N	Z	Min Amount	Min Percentage
100000	1	1	100000	100
100000	2	1	50000	50
100000	2	0.5	25000	25
100000	2	0.6	30000	30
100000	2	0.7	35000	35
100000	2	0.8	40000	40
100000	2	0.9	45000	45
100000	2	1	50000	50
100000	3	0.5	16666.67	16.66667
100000	3	0.6	20000	20
100000	3	0.7	23333.33	23.33333
100000	3	0.8	26666.67	26.66667
100000	3	0.9	30000	30
100000	3	1	33333.33	33.33333
100000	4	0.5	12500	12.5
100000	4	0.6	15000	15
100000	4	0.7	17500	17.5
100000	4	0.8	20000	20
100000	4	0.9	22500	22.5
100000	4	1	25000	25

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100000	5	0.5	10000	10
100000	5	0.6	12000	12
100000	5	0.7	14000	14
100000	5	0.8	16000	16
100000	5	0.9	18000	18
100000	5	1	20000	20
100000	6	0.5	8333.333	8.333333
100000	6	0.6	10000	10
100000	6	0.7	11666.67	11.66667
100000	6	0.8	13333.33	13.33333
100000	6	0.9	15000	15
100000	6	1	16666.67	16.66667
100000	7	0.5	7142.857	7.142857
100000	7	0.6	8571.429	8.571429
100000	7	0.7	10000	10
100000	7	0.8	11428.57	11.42857
100000	7	0.9	12857.14	12.85714
100000	7	1	14285.71	14.28571
100000	8	0.5	6250	6.25
100000	8	0.6	7500	7.5
100000	8	0.7	8750	8.75
100000	8	0.8	10000	10
100000	8	0.9	11250	11.25

100000	8	1	12500	12.5
100000	9	0.5	5555.556	5.555556
100000	9	0.6	6666.667	6.666667
100000	9	0.7	7777.778	7.777778
100000	9	0.8	8888.889	8.888889
100000	9	0.9	10000	10
100000	9	1	11111.11	11.11111
100000	10	0.5	5000	5
100000	10	0.6	6000	6
100000	10	0.7	7000	7
100000	10	0.8	8000	8
100000	10	0.9	9000	9
100000	10	1	10000	10

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Sample Calculation 2

A	N	Z	Min Amount	Min Percentage
50000	1	1	50000	100
50000	2	1	25000	50
50000	2	0.5	12500	25
50000	2	0.6	15000	30
50000	2	0.7	17500	35
50000	2	0.8	20000	40
50000	2	0.9	22500	45
50000	2	1	25000	50
50000	3	0.5	8333.333	16.66667
50000	3	0.6	10000	20
50000	3	0.7	11666.67	23.33333
50000	3	0.8	13333.33	26.66667
50000	3	0.9	15000	30
50000	3	1	16666.67	33.33333
50000	4	0.5	6250	12.5
50000	4	0.6	7500	15
50000	4	0.7	8750	17.5
50000	4	0.8	10000	20
50000	4	0.9	11250	22.5
50000	4	1	12500	25

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50000	5	0.5	5000	10
50000	5	0.6	6000	12
50000	5	0.7	7000	14
50000	5	0.8	8000	16
50000	5	0.9	9000	18
50000	5	1	10000	20
50000	6	0.5	4166.667	8.333333
50000	6	0.6	5000	10
50000	6	0.7	5833.333	11.66667
50000	6	0.8	6666.667	13.33333
50000	6	0.9	7500	15
50000	6	1	8333.333	16.66667
50000	7	0.5	3571.429	7.142857
50000	7	0.6	4285.714	8.571429
50000	7	0.7	5000	10
50000	7	0.8	5714.286	11.42857
50000	7	0.9	6428.571	12.85714
50000	7	1	7142.857	14.28571
50000	8	0.5	3125	6.25
50000	8	0.6	3750	7.5
50000	8	0.7	4375	8.75
50000	8	0.8	5000	10
50000	8	0.9	5625	11.25

50000	8	1	6250	12.5
50000	9	0.5	2777.778	5.555556
50000	9	0.6	3333.333	6.666667
50000	9	0.7	3888.889	7.777778
50000	9	0.8	4444.444	8.888889
50000	9	0.9	5000	10
50000	9	1	5555.556	11.11111
50000	10	0.5	2500	5
50000	10	0.6	3000	6
50000	10	0.7	3500	7
50000	10	0.8	4000	8
50000	10	0.9	4500	9
50000	10	1	5000	10

LIST OF **AWARDEES**

List of awardees for **"SPONSORED RESEARCH PROJECT AWARD"**

S. No.	Name of the PI/Co-PI	Department	Title of the Sponsored Research Project	Sponsoring Agency
1	Prof. M. Rizwan	Electrical Engineering	Smart Dynamic Energy Management for the Built Environment with Integrated Renewable Energy	Department of Science & Technology, Govt. of India
2	Dr. Rajeev Kumar Mishra	Environmental Science & Engineering	Proxy relationship of Ultrafine Particle Number Concentration, New Particle Formation and Its Growth Rate in Transport Microenvironment in Delhi	Central Pollution Control Board (CPCB), Govt. of India

List of awardees for **"Ph.D. THESIS SUBMISSION WITHIN MINIMUM STIPULATED PERIOD AWARD"**

S. No.	Name of the Scholar	Department	Name of Supervisor(s) from DTU	Thesis Title
1	Abhishek Verma	Information Technology	Prof. Dinesh K Vishwakarma Prof. Virender Ranga	Design and Development of AI-based Framework for Environmental and GeoSpatial Data Analysis
2	Himanshu Nandanwar	Computer Science & Engineering	Prof. Rahul Katarya	Development of Intrusion Detection System in IoT Using Artificial Intelligence and Blockchain Technology
3	Jatin Sharma	Computer Science & Engineering	Dr. Pawan Singh Mehra	Design and Development of Secure Communication in IoT-based UAV networks

List of awardees for **"INNOVATION AWARD"**

S. No.	Names of Inventor(s) from DTU	Department	Patent Number	Patent Title
1	Pallavi Ranjan; Anurag Goel; Rajeev Kumar	Computer Science & Engineering	575681	System for Underwater Object Detection and Method Thereof
2	Rajeev Kumar; Anurag Goel; Shailender Kumar; Ankur; Pallavi Ranjan	Computer Science & Engineering	564225	Method and System for Automatic Transmission of Authentication Code
3	Ankur; Rajeev Kumar	Computer Science & Engineering	572628	System and Method for hiding data in images
4	Mayank Kumar; Madhusudhan Singh; Pragati Kumar; Uma Nangia; Mini Sreejeth; M. Rizwan; Ashish R. Kulkarni	Electrical Engineering	574189	Battery Management System with Integrated Fault Detection, Cell Balancing and Power Regulation
5	Yasha Hasija; Rajkumar Chakraborty	Biotechnology	571607	Vending System for Precision Plant Disease Management Through Image Recognition and Automated Pesticide Dispensing

S. No.	Names of Inventor(s) from DTU	Department	Patent Number	Patent Title
6	Anurag Goel; Pallavi Ranjan; Ankur; Shailender Kumar; Rajeev Kumar	Computer Science & Engineering	568874	Method and System for Generating Dynamic Alert in A Messaging Platform
7	Rajeev Kumar; Shailender Kumar; Vinod Kumar; Ankur	Computer Science & Engineering	576746	System and Method for Adaptation of Video or Playlist Thumbnails based on User Preferences
8	Bharat Bhushan; Rupam Singh	Electrical Engineering	572890	Automated Status Monitoring and Reconfiguring Control System for Unmanned Helicopters
9	Jatin Sharma; Diksha Chawla; Pawan Singh Mehra	Computer Science & Engineering	571337	Secure Quantum Cryptography System and Method for Safe Communication and Storage of IOT-Based Data
10	Dheeraj Joshi; Ashutosh	Electrical Engineering	575914	System Based on Phase-Short and Phase-Open DFIM-DC Topology for Simplified Control with Reduced Converter
11	Diksha Chawla; Pawan Singh Mehra	Computer Science & Engineering	565984	Quantum Cryptography based Authentication System and Method for Secure Transmission of Healthcare Data Through GHZ States
12	Shailender Kumar; Rajeev Kumar; Anurag Goel; Pallavi Ranjan	Computer Science & Engineering	567890	Method and System for Enhancing Handwritten Content on a Smart Board

Cumulative Citation Award **(PLATINUM)**

S. No.	Name of Researcher	Name of Department
1	Prof. A. S. Rao	Applied Physics
2	Prof. M Jayasimhadri	Applied Physics

Cumulative Citation Award **(GOLD)**

S. No.	Name of Researcher	Name of Department
1	Prof. Mohan Singh Mehata	Applied Physics
2	Prof. Rishu Chaujar	Applied Physics

Cumulative Citation Award **(SILVER)**

S. No.	Name of Researcher	Name of Department
1	Prof. C. P. Singh	Applied Mathematics
2	Prof. Navneeta Bharadvaja	Bio -Technology
3	Prof. Jai Gopal Sharma	Bio -Technology
4	Prof. Saurabh Agrawal	Delhi School of Management
5	Prof. Alka Singh	Electrical Engineering
6	Prof. Seba Susan	Information Technology
7	Prof. Pravin Kumar	Mechanical Engineering

YEARLY CITATION AWARD

S. No.	Name of Researcher	Name of Department
1	Prof. Devendra Kumar	Applied Chemistry
2	Dr. Raminder Kaur	Applied Chemistry
3	Prof. A. S. Rao	Applied Physics
4	Prof. M Jayasimhadri	Applied Physics
5	Prof. Mohan Singh Mehata	Applied Physics
6	Prof. Ravindra Kumar Sinha	Applied Physics
7	Prof. Rishu Chaujar	Applied Physics
8	Dr. Asmita Das	Bio -Technology
9	Prof. Navneeta Bharadvaja	Bio -Technology
10	Prof. Jai Gopal Sharma	Bio -Technology
11	Prof. Pravir Kumar	Bio -Technology
12	Prof. Raju Sarkar	Civil Engineering
13	Dr. Pawan Singh Mehra	Computer Science & Engineering
14	Prof Anil Singh Parihar	Computer Science & Engineering
15	Prof. Rahul Katarya	Computer Science & Engineering
16	Prof. Rajni Jindal	Computer Science & Engineering
17	Dr. Rajeev Kumar	Computer Science & Engineering
18	Dr. Sanjay Kumar	Computer Science & Engineering
19	Prof. Saurabh Agrawal	Delhi School of Management
20	Prof. Alka Singh	Electrical Engineering
21	Prof. M. Rizwan	Electrical Engineering
22	Prof. Narendra Kumar II	Electrical Engineering
23	Prof. Vinod Kumar Yadav	Electrical Engineering
24	Prof. Dinesh Kumar	Electronics and Communication Engineering
25	Dr. Chhavi Dhiman	Electronics and Communication Engineering
26	Dr. Sonam Rewari	Electronics and Communication Engineering
27	Dr. Manjeet Kumar	Electronics and Communication Engineering
28	Prof. Neeta Pandey	Electronics and Communication Engineering
29	Prof. S Indu	Electronics and Communication Engineering
30	Prof. S.K. Singh	Environmental Science & Engineering
31	Prof. Virender Ranga	Information Technology
32	Prof. Dinesh K. Vishwakarma	Information Technology
33	Prof. Seba Susan	Information Technology
34	Prof. Akhilesh Arora	Mechanical Engineering
35	Prof. Girish Kumar	Mechanical Engineering
36	Prof. Pravin Kumar	Mechanical Engineering
37	Prof. Qasim Murtaza	Mechanical Engineering
38	Prof. Radhey Shyam Mishra	Mechanical Engineering
39	Prof. Ruchika Malhotra	Software Engineering

Details for Published Papers for

PREMIER RESEARCH AWARDS

S. No	Authors and Year	Title, Journal, Vol., Issue, Pages, DOI, Impact Factor
		DEPARTMENT OF APPLIED MATHEMATICS
1	Himani Pokhriyal, **Goonjan Jain** (2025).	Supposititious Sarcasm Detection and Sentiment Analysis Coping Hindi Language in Social Networks Harnessing Zipf- Mandelbrot Probabilistic Optimisation and Perplexity Entropy Learning. *ACM Transactions on Asian and Low-Resource Language Information Processing, 24, 1-28.* https://doi.org/10.1145/3712061. Impact Factor (JCR 2024): 2.0
		DEPARTMENT OF APPLIED PHYSICS
1	Ramesh Kumar, **Mukhtiyar Singh** (2025).	Existence of dual topological phases in Sn-based ternary chalcogenides. *Physical Review B, 111(19), 195128.* https://doi.org/10.1103/physrevb.111.195128. Impact Factor (JCR 2024): 3.7
		DEPARTMENT OF CIVIL ENGINEERING
1	**Harish** Panghal, Awadhesh Kumar (2025).	Eco-Friendly Concrete: A Dual Surface Modification Approach for Enhanced Mechanical Performance of Recycled Coarse Aggregates. *Journal of Materials in Civil Engineering, 37(4), 04025052.* https://doi.org/10.1061/jmcee7.mteng-19054. Impact Factor (JCR 2024): 3.0
		DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
1	Rewat Sachdeva, Raghav Gakhar, Sharad Awasthi, Kavinder Singh, Ashutosh Pandey, **Anil Singh Parihar** (2025).	Uncertainty and Noise Aware Decision Making for Autonomous Vehicles: A Bayesian Approach. *IEEE Transactions on Vehicular Technology, 74, 378-389.* https://doi.org/10.1109/tvt.2024.3459632. Impact Factor (JCR 2024): 7.1
2	**Minni Jain**, Roopal Shakya (2025).	LSI-EGT: Life Stressors Identification Using Context-Aware Embedding and Graph Transformer. *IEEE Transactions on Computational Social Systems, 12, 4809-4818.* https://doi.org/10.1109/tcss.2025.3573155. Impact Factor (JCR 2024): 4.9
3	Diksha Kurchaniya, **Sanjay Kumar** (2025).	EAGLE: Enhanced Activity Recognition in Occluded Environments With Improved GAIN and Bi-LSTM. *IEEE Transactions on Computational Social Systems, 12, 3431-3441.* https://doi.org/10.1109/tcss.2025.3558970. Impact Factor (JCR 2024): 4.9
		DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
1	**Aapurva Kaul**, Snehlata Yadav, Sonam Rewari, Deva Nand (2025).	Analytical Modeling of Temperature-Resilient Cylindrical Gate Engineered Ferroelectric Nanowire Field-Effect Transistor. *IEEE Transactions on Dielectrics and Electrical Insulation, 32, 2674-2682.* https://doi.org/10.1109/tdei.2025.3538754. Impact Factor (JCR 2024): 3.1
2	**Ayush Dahiya**, Vansh Singhal, Poornima Mittal (2025).	A Variation Tolerant Write Assist Read Decoupled 9T SRAM Cell for Low Voltage Application. *ACM Transactions on Design Automation of Electronic Systems, 30, 1-22.* https://doi.org/10.1145/3754451. Impact Factor (JCR 2024): 2.0
3	Neha Sharma, **Chhavi Dhiman**, Sreedevi Indu (2025).	Cross-Modal Pedestrian Behavior Prediction: A Dual-Task Approach With Progressive Denoising Attention and CVAE. *IEEE Transactions on Intelligent Transportation Systems, 26, 17110-17120.* https://doi.org/10.1109/tits.2025.3578023. Impact Factor (JCR 2024): 8.4
4	**Divya Arora Bhayana**, Om Prakash Verma (2025).	Trans-Convo-Former Net for Hierarchical Prediction of Household Images. *ACM Transactions on Multimedia Computing, Communications, and Applications, 21, 1-21.* https://doi.org/10.1145/3757323. Impact Factor (JCR 2024): 6.0
5	**Ishaan Sharma**, Sumit J. Darak, Rohit Kumar (2025).	High-Speed Compute-Efficient Bandit Learning for Many Arms. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 33, 2099-2103.* https://doi.org/10.1109/tvlsi.2025.3573924. Impact Factor (JCR 2024): 3.1
6	Pankaj, Pratibha Maan, **Manjeet Kumar** (2025).	Development of an STM32-Based Noninvasive Hemoglobin Measurement System Using Multiwavelength Photoplethysmography. *IEEE Transactions on Instrumentation and Measurement, 74, 1-12.* https://doi.org/10.1109/tim.2025.3588938. Impact Factor (JCR 2024): 5.9

S. No	Authors and Year	Title, Journal, Vol., Issue, Pages, DOI, Impact Factor
DEPARTMENT OF ELECTRICAL ENGINEERING		
1	Rekha Rani, N. Jayanthi, **Anup Kumar Mandpura** (2025).	Power Allocation and CAR Optimization in Multiuser Dual-Hop RF/FSO DF Relaying Systems With Channel Estimation Error. *IEEE Transactions on Green Communications and Networking, 9, 1513-1523.* https://doi.org/10.1109/tgcn.2025.3535523. Impact Factor (JCR 2024): 6.7
2	**Apoorva Choumal**, M. Rizwan, Shatakshi Jha (2025).	A Unified Prediction-Dispatch Framework for PV Power Scheduling Using Reinforcement Learning. *IEEE Transactions on Consumer Electronics, 71, 10235-10247.* https://doi.org/10.1109/tce.2025.3619248. Impact Factor (JCR 2024): 10.9
3	Dheeraj Joshi, **Ashutosh Gupta** (2025).	Controller Design and Modeling of a Single-Switch Fifth-Order High-Voltage-Gain Converter With Parasitics for Electric Vehicle Charging. *IEEE Transactions on Transportation Electrification, 11, 10647-10659.* https://doi.org/10.1109/tte.2025.3553705. Impact Factor (JCR 2024): 8.3
4	**Deepak Kumar**, M. Rizwan, Amrish K. Panwar (2025).	Towards Green AI: A Novel Hybrid Filter Based AI Approach for Energy Efficient State of Charge and Energy Estimation in Li-Ion Batteries Under Various Drive Cycles. *IEEE Transactions on Industry Applications, 61, 7633-7645.* https://doi.org/10.1109/tia.2025.3550108. Impact Factor (JCR 2024): 4.5
5	Rushiv Bansal, Rishabh Bansal, **Mayank Kumar**, Madhusudan Singh (2025).	Fault-Tolerant Multiport DC–DC Converter With Reduced Current Ripple and Step-Up/Down Voltage Gain Charging Capability. *IEEE Transactions on Transportation Electrification, 11, 13416-13430.* https://doi.org/10.1109/tte.2025.3603615. Impact Factor (JCR 2024): 8.3
6	**Md. Modassir Masoom**, Mayank Kumar, Narendra Kumar (2025).	Design and Characterization of Solar PV Fed Fault Tolerant Multiport Converter With Reduced Current Ripple. *IEEE Transactions on Industry Applications, 61, 6644-6660.* https://doi.org/10.1109/tia.2025.3544565. Impact Factor (JCR 2024): 4.5
7	**Shubham Gupta**, Vinod Kumar Yadav, Madhusudan Singh (2025).	Aggregation of Distributed Energy Resources for Optimal Operation in Local Energy Communities With Grid Constraints. *IEEE Transactions on Industrial Informatics, 21, 5723-5733.* https://doi.org/10.1109/tii.2025.3558313. Impact Factor (JCR 2024): 9.9
DEPARTMENT OF MECHANICAL ENGINEERING		
1	Anand Kushwah, **Anil Kumar** (2025).	Evaluating Drying Behavior and Efficiency in Varied Shaped Samples Using Solar Drying: A Morphological and Kinetic Study. *Journal of Thermal Science and Engineering Applications, 17(2), 021001.* https://doi.org/10.1115/1.4067074. Impact Factor (JCR 2024): 1.4
2	Niranjan Sahoo, **Anil Kumar** (2025).	Greenhouse Gas Mitigation Potential Through Clean Energy for Cement Production in India. *Journal of Solar Energy Engineering, 147(1), 011009.* https://doi.org/10.1115/1.4065977. Impact Factor (JCR 2024): 1.9
3	**Rajendra Prasad**, Narayana Yuvaraj, Vipin (2025).	Wear Characteristics of Dissimilar SDSS 2507–IN 718 Parts Fabricated by Cold Metal Transfer-Based Wire Arc Additive Manufacturing. *Journal of Tribology, 147(10), 104203.* https://doi.org/10.1115/1.4067555. Impact Factor (JCR 2024): 3.0
4	**Rajendra Prasad**, N. Yuvaraj, Vipin (2025).	Ultrasonic Vibration-Assisted Cold Metal Transfer Direct Energy Deposition of Dissimilar SDSS2507–IN718 Alloy Parts: Microstructural and Mechanical Characterization. *Journal of Engineering Materials and Technology, 147(3), 031006.* https://doi.org/10.1115/1.4068135. Impact Factor (JCR 2024): 1.9
5	Abdul Khaliq, **Rajesh Kumar**, Tawfiq Al-Mughanam, Khaled Zeid (2025).	Proposal and Evaluation of a Novel Solar Thermal-Driven Cooling-Power Cogeneration System. *Journal of Thermal Science and Engineering Applications, 17(7), 071007.* https://doi.org/10.1115/1.4068339. Impact Factor (JCR 2024): 1.4
6	**Soni Kesarwani**, Narayana Yuvaraj, Mahendra Singh Niranjan (2025).	Wear Performance Enhancement of Interface Layer in Cold Metal Transfer-Based WAAM-Fabricated ER4043/ER5356 Bimetallic Wall Through Friction Stir Surface Treatment. *Journal of Tribology, 147(8), 081401.* https://doi.org/10.1115/1.4067281. Impact Factor (JCR 2024): 3.0
7	**Subhajit Konar**, Vijay Gautam (2025).	Investigations on Formability Enhancement of Friction Stir Tailor-Welded Blanks. *Journal of Engineering Materials and Technology, 147(3), 031004.* https://doi.org/10.1115/1.4067785. Impact Factor (JCR 2024): 1.9

S. No	Authors and Year	Title, Journal, Vol., Issue, Pages, DOI, Impact Factor
		DEPARTMENT OF APPLIED CHEMISTRY
1	Priyanka Yadav, Sweta Mehra, Sudhir G Warkar, **Anil Kumar** (2025).	Porphyrin and Corrole-Based Frameworks for Sustainable Energy Storage. *ChemistrySelect, 10(34), e02588.* https://doi.org/10.1002/slct.202502588. Impact Factor (JCR 2024): 2.0
2	**Anvita Chaudhary**, Richa Srivastava (2025).	Bridged N–based ionic liquid and their application in synthesis of five membered N–heterocycles. *Tetrahedron, 183, 134721.* https://doi.org/10.1016/j.tet.2025.134721. Impact Factor (JCR 2024): 2.2
3	**Ashwani Kumar Tiwari**, Kudzai Hamish Ruzvidzo, Prafful Kumar Meena, Manish Jain (2025).	Extraction of Betanin From Beetroot Juice Using a Hybrid System: System Performance and Fouling Analysis of the Membrane. *Journal of Food Process Engineering, 48(11), e70272.* https://doi.org/10.1111/jfpe.70272. Impact Factor (JCR 2024): 2.9
4	**Babita**, Kanika, Richa Srivastava (2025).	Contemporary Trends in the Greener Synthetic Approaches Towards Quinoline Derivatives. *Journal of Heterocyclic Chemistry, 62, 1140-1170.* https://doi.org/10.1002/jhet.70054. Impact Factor (JCR 2024): 2.4
5	**Charu Gupta**, Bhamini Pandey, Poonam Singh, Ram Singh (2025).	Zn/Cu Layered Double Hydroxide as a Catalyst for the Synthesis of Highly Functionalized Pyrazole Derivatives. *ChemistrySelect, 10(13), e202404835.* https://doi.org/10.1002/slct.202404835. Impact Factor (JCR 2024): 2.0
6	**Charu Gupta**, Richa Srivastava, Geetanjali, Ram Singh (2025).	Phytochemistry and applications of glycosides from Syzygium genus: A mini review. *Carbohydrate Research, 555, 109582.* https://doi.org/10.1016/j.carres.2025.109582. Impact Factor (JCR 2024): 2.5
7	Manjot Kaur, **Deenan Santhiya** (2025).	Fabrication of Dextran-Based Edible Film for Colon-Targeted Delivery of Collagen-Bioactive Glass Complex Through Oral Route. *ChemistrySelect, 10(23), e05764.* https://doi.org/10.1002/slct.202405764. Impact Factor (JCR 2024): 2.0
8	Divya Hudda, **Devendra Kumar** (2025).	Titanium dioxide grafted MXene-based molecularly imprinted electrochemical sensor for the ultrasensitive determination of levofloxacin. *Journal of Solid State Electrochemistry, 29, 5283-5295.* https://doi.org/10.1007/s10008-025-06379-x. Impact Factor (JCR 2024): 2.6
9	Saroj Paneru, Sweety, **D. Kumar** (2025).	CeO_2 nanocrystal-enhanced polyaniline biosensor for organophosphate detection: a step toward sustainable agriculture. *Polymer Bulletin, 82, 6843-6859.* https://doi.org/10.1007/s00289-025-05805-4. Impact Factor (JCR 2024): 4.0
10	**Gunjan Varshney**, Raminder Kaur, Mohammad Zulfequar (2025).	Fabrication and assessment of n-eicosane/poly(stearylmethacrylate-co-butylacrylate) nanocapsules: impact of long alkyl polymer chains on thermal performance and stability. *Nanoscale, 17, 26923-26934.* https://doi.org/10.1039/d5nr04183j. Impact Factor (JCR 2024): 5.1
11	**Jitendra Kumar**, Roli Purwar (2025).	Biodegradable, biocompatible, and self-healing, injectable hydrogel based on oxidized Azadirachta indica gum and carboxymethyl chitosan through dynamic imine-linkage for biomedical application. *Iranian Polymer Journal, 34, 465-483.* https://doi.org/10.1007/s13726-024-01386-7. Impact Factor (JCR 2024): 2.8
12	**Kunal Madaan**, Ram Singh (2025).	Progress In the Chemistry and Pharmacology of Isoindolin-1-One Scaffolds. *ChemMedChem, 20(17), e202500420.* https://doi.org/10.1002/cmdc.202500420. Impact Factor (JCR 2024): 3.4
13	**Leela Gautam**, Sudhir G. Warkar, Manish Jain (2025).	Evaluating the Role of Carboxylic Acid Cross-linkers in PVA Matrices for Adsorptive Removal of Crystal Violet Dye. *ChemistrySelect, 10(25), e00799.* https://doi.org/10.1002/slct.202500799. Impact Factor (JCR 2024): 2.0
14	Ketan Mahawer, Ashwani Kumar Tiwari, Abeer Mutto, **Manish Jain** (2025).	Modeling and experimental investigation of factors responsible for maximizing the betanin concentration by spiral-wound FO module using Na_2SO_4-based draw solution. *Food and Bioproducts Processing, 152, 54-63.* https://doi.org/10.1016/j.fbp.2025.05.001. Impact Factor (JCR 2024): 3.4

S. No	Authors and Year	Title, Journal, Vol., Issue, Pages, DOI, Impact Factor
15	Kudzai Hamish Ruzvidzo, Ashwani Kumar Tiwari, Raminder Kaur, Deshraj Meena, **Manish Jain** (2025).	A Critical Review on the Progress, Challenges, and Future Outlook of Forward Osmosis Desalination in the 21st Century. *Water Environment Research, 97(10), e70191.* https://doi.org/10.1002/wer.70191. Impact Factor (JCR 2024): 1.9
16	**Manisha Yadav**, Raminder Kaur, Manish Jain (2025).	Cefadroxil Separation from Pharmaceutical Effluent Using Nanofiltration to Prevent the Development of Antibiotic Resistance in Pathogens. *ChemistrySelect, 10(38), e03612.* https://doi.org/10.1002/slct.202503612. Impact Factor (JCR 2024): 2.0
17	**Parul Yadav**, Anchal Dabas, Ram Singh (2025).	Six-membered N-heterocyclic alkaloids as ChE inhibitors in alzheimer's disease treatment. *Metabolic Brain Disease, 40(8), 309.* https://doi.org/10.1007/s11011-025-01740-5. Impact Factor (JCR 2024): 3.5
18	**Pooja Singh**, Manpreet Kour, Gunjan Varshney, Raminder Kaur (2025).	Non-isocyanate polyurethane (NIPU) Foams: Overcoming challenges and embracing sustainability. *Polymer, 333, 128658.* https://doi.org/10.1016/j.polymer.2025.128658. Impact Factor (JCR 2024): 4.5
19	**Poonam**, Geetanjali, Ram Singh (2025).	Imidazole-, Triazole-, and Tetrazole-Based High-Energy Ionic Liquids. *Topics in Current Chemistry, 383(3), 28.* https://doi.org/10.1007/s41061-025-00513-z. Impact Factor (JCR 2024): 8.8
20	Sarla Yadav, **Poonam Singh**, Raminder Kaur (2025).	Biogenic fabrication of zinc–nickel oxide nanoparticles via button lac for azo dye removal. *Journal of the Indian Chemical Society, 102, 102152.* https://doi.org/10.1016/j.jics.2025.102152. Impact Factor (JCR 2024): 3.4
21	**Poornima Bohra**, Priya, Sweety, Divya Hudda, Devendra Kumar (2025).	Cus@rGO Grafted PEDOT:PSS Paper-Based Electrochemical Biosensor for Sensitive Detection of Fenitrothion. *Applied Organometallic Chemistry, 39(2), e70002.* https://doi.org/10.1002/aoc.70002. Impact Factor (reported at submission): 3.7
22	**Priyanka Meena**, Poonam Singh, Sudhir G. Warkar (2025).	Degradable pH-Sensitive Calcium-Crosslinked Tragacanth Gum/β-Cyclodextrin/Sodium Alginate Hydrogel Microspheres Prepared via Ionotropic Gelation Technique for Hydrophobic Drug Delivery. *Journal of Polymers and the Environment, 33, 928-944.* https://doi.org/10.1007/s10924-024-03449-5. Impact Factor (JCR 2024): 5.0
23	**Priyanka Yadav**, Kanishka Kashyap, Sudhir G. Warkar, Anil Kumar (2025).	FeO NPs-Loaded Guar Gum/Xanthan Gum-Based Hydrogel: A Sustainable Approach for Cationic Dye Removal. *ChemistrySelect, 10(19), e202500293.* https://doi.org/10.1002/slct.202500293. Impact Factor (JCR 2024): 2.0
24	**Priyanka Yadav**, Sudhir G. Warkar, Anil Kumar (2025).	Fabrication of carboxymethyl tamarind kernel gum-based pH-responsive hydrogel composite for oral delivery of azithromycin drug. *International Journal of Biological Macromolecules, 322, 146662.* https://doi.org/10.1016/j.ijbiomac.2025.146662. Impact Factor (JCR 2024): 8.5
25	Manu Nandal, Devendra Kumar, **Rajinder K. Gupta** (2025).	Harnessing Lignite-Based Hydrogel for Enhanced UV Protection and Delivery of Dinotefuran in Agriculture. *ChemistrySelect, 10(25), e05884.* https://doi.org/10.1002/slct.202405884. Impact Factor (JCR 2024): 2.0
26	Sarla Yadav, Poonam Singh, **Raminder Kaur** (2025).	Button-lac mediated preparation of Zn–Cu oxide nanoparticles for wastewater treatment. *Materials Chemistry and Physics, 344, 131157.* https://doi.org/10.1016/j.matchemphys.2025.131157. Impact Factor (JCR 2024): 4.7
27	Anvita Chaudhary, **Richa Srivastava** (2025).	Synthetic Approaches of Six Membered N-Heterocycles Using Bridged N-Based Ionic Liquids: A Review. *Asian Journal of Organic Chemistry, 14(5), e202400785.* https://doi.org/10.1002/ajoc.202400785. Impact Factor (JCR 2024): 2.7
28	**Sarla Yadav**, Pooja Singh, Gunjan Varshney, Saurabh, Poonam Singh, Raminder Kaur (2025).	Photocatalytic degradation of crystal violet dye using phytofabricated zinc oxide nanoparticles from anthocyanin extract. *Microchemical Journal, 213, 113681.* https://doi.org/10.1016/j.microc.2025.113681. Impact Factor (JCR 2024): 5.1
29	**Sarla Yadav**, Jigyasa Pathak, Purusottam Majhi, Sandeep Kaushik, A.K. Shukla, Raminder Kaur, Ravinder Kumar, Poonam Singh (2025).	Lac-based-biosynthesis of zinc–copper mixed metal oxide nanoparticles and evaluation of their antifungal activity against A.*alternata and F.* oxysporum. Materials Chemistry and Physics, 330, 130152. https://doi.org/10.1016/j.matchemphys.2024.130152. Impact Factor (JCR 2024): 4.7
30	**Soumya Kumari**, Bhavya Rustagi, Priyanka Meena, Sudhir G. Warkar (2025).	Carboxymethyl tamarind kernel gum-based superabsorbent hydrogel for release of copper micronutrient. *International Journal of Biological Macromolecules, 320, 146010.* https://doi.org/10.1016/j.ijbiomac.2025.146010. Impact Factor (JCR 2024): 8.5

S. No	Authors and Year	Title, Journal, Vol., Issue, Pages, DOI, Impact Factor
31	**Sweety**, Divya Hudda, Devendra Kumar (2025).	Ultrasensitive Electrochemical Detection of EpCAM Antigen Based on Anti-EpCAM Conjugated With Highly Flexible Ag@$Ti_3C_2T_x$ Modified Conducting Paper Platform. *Applied Organometallic Chemistry, 39(7), e70264.* https://doi.org/10.1002/aoc.70264. Impact Factor (reported at submission): 3.7
32	**Sweta Mehra**, Sharad Singh Jadaun, Anil Kumar, Amrish K. Panwar (2025).	Study of Lithium-Ion Diffusion Coefficients Through Analysis of CV and EIS for NiMn2O4 Alternate Anode Material in Lithium-Ion Batteries. *Journal of Electronic Materials, 54, 8439-8447.* https://doi.org/10.1007/s11664-025-12255-1. Impact Factor (JCR 2024): 2.5
33	**Tanushee**, Devendra Kumar, Ram Singh (2025).	Isoalloxazine and their analogous as energy storage materials: a review. *Ionics, 31, 7631-7646.* https://doi.org/10.1007/s11581-025-06453-4. Impact Factor (JCR 2024): 2.6
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55	**Vibhu Singh**, M. S. Niranjan, Qasim Murtaza (2025).	Evaluation of the role of process parameters of CMT welding and their statistical behaviour on the tensile properties of weld joint of novel aluminium hybrid composite. *Welding in the World, 69, 245-267.* https://doi.org/10.1007/s40194-024-01805-6. Impact Factor (JCR 2024): 2.5
56	**Vijay Shekhar Sharma**, Rajesh Kumar, Radhey Shyam Mishra (2025).	Development and thermal optimization of cellulose-based insulation panels reinforced with cementitious industrial by-products. *Journal of Building Engineering, 116, 114632.* https://doi.org/10.1016/j.jobe.2025.114632. Impact Factor (JCR 2024): 7.4
DEPARTMENT OF SOFTWARE ENGINEERING		
1	**Priyanka Arora**, Sonika Dahiya (2025).	COVID-19-Induced Depression and Anxiety Detection: A Systematic Literature Review of Machine Learning and Deep Learning Techniques. *New Generation Computing, 43(4), 20.* https://doi.org/10.1007/s00354-025-00305-5. Impact Factor (JCR 2024): 2.8
2	**Roshni Singh**, Abhilasha Sharma (2025).	STAD-ConvBi-LSTM: Spatio-temporal attention-based deep convolutional Bi-LSTM framework for abnormal activity recognition. *Journal of Visual Communication and Image Representation, 110, 104465.* https://doi.org/10.1016/j.jvcir.2025.104465. Impact Factor (JCR 2024): 3.1
3	**Roshni Singh**, Abhilasha Sharma (2025).	Occluded skeleton-based multi-stream model using Part-Aware Spatial–Temporal Graph Convolutional Network for human activity recognition. *Engineering Applications of Artificial Intelligence, 156, 111183.* https://doi.org/10.1016/j.engappai.2025.111183. Impact Factor (JCR 2024): 8.0
4	**Ruchika Malhotra**, Vidushi (2025).	Improving software vulnerability severity prediction model performance with HDLN & FWFS: a two-stage feature selection approach. *Software Quality Journal, 33(1), 17.* https://doi.org/10.1007/s11219-025-09714-7. Impact Factor (JCR 2024): 2.3
5	**Ruchika Malhotra**, Vidushi (2025).	Hybrid feature selection module for improving performance of software vulnerability severity prediction model on textual dataset. *Computing, 107(2), 66.* https://doi.org/10.1007/s00607-025-01425-y. Impact Factor (JCR 2024): 2.8
6	**Ruchika Malhotra**, Priya Singh (2025).	DHG-BiGRU: Dual-attention based hierarchical gated BiGRU for software defect prediction. *Information and Software Technology, 179, 107646.* https://doi.org/10.1016/j.infsof.2024.107646. Impact Factor (JCR 2024): 4.3
7	**Ruchika Malhotra**, Bhawna Jain, Marouane Kessentini (2025).	QNet: exploring deep learning for quantum code smell detection. *Software Quality Journal, 33(2), 25.* https://doi.org/10.1007/s11219-025-09724-5. Impact Factor (JCR 2024): 2.3
8	Priyanka Arora, **Sonika Dahiya** (2025).	Unveiling the impact of dataset size on machine learning models for anxiety and depression prediction amid the COVID-19 pandemic: determining optimal data collection thresholds. *Current Psychology, 44, 8106-8119.* https://doi.org/10.1007/s12144-025-07432-8. Impact Factor (JCR 2024): 2.6
UNIVERSITY SCHOOL OF MANAGEMENT AND ENTREPRENEURSHIP		
1	**Divya Mishra**, Nidhi Maheshwari (2025).	Influencer Alignment in Crisis Response: An Experimental Study on Trait and Emotional Congruence for Brand Reputation Recovery. *Journal of Contingencies and Crisis Management, 33(3), e70068.* https://doi.org/10.1111/1468-5973.70068. Impact Factor (JCR 2024): 2.2
2	**Naval Garg** (2025).	Development and Validation of Spiritual Well-Being Scale in India: A Yogic Niyama Perspective. *Journal of Religion and Health, 64, 1320-1340.* https://doi.org/10.1007/s10943-024-02163-9. Impact Factor (JCR 2024): 2.0

S. No	Authors and Year	Title, Journal, Vol., Issue, Pages, DOI, Impact Factor
3	**Virender Kumar**, Simran (2025).	How financial development shapes globalization's impact on income inequality in Asia?. *Economic Analysis and Policy, 86, 1083-1098.* https://doi.org/10.1016/j.eap.2025.04.021. Impact Factor (JCR 2024): 8.7
4	**Virender Kumar** (2025).	Examining the impact of domestic monetary policy on foreign portfolio investment flows to India. *International Review of Finance, 25(2), e70023.* https://doi.org/10.1111/irfi.70023. Impact Factor (JCR 2024): 2.6
	DEPARTMENT OF GEOSPATIAL SCIENCE AND TECHNOLOGY	
1	**Dyvavani Krishna Kapuganti**, Kailash C. Tiwari, Gopala Areendran (2025).	Assessing land surface temperature dynamics and urban heat island effects in Delhi: a multi-temporal analysis and future projections. *Environmental Monitoring and Assessment, 197(10), 1094.* https://doi.org/10.1007/s10661-025-14390-y. Impact Factor (JCR 2024): 3.0
2	**Jaya Yadav**, Ashim Kumar Mitra, Kailash Chandra Tiwari (2025).	Overview of Brihat Samhita rainfall prediction methodology over the Indian region and its utilization by machine learning technique. *Journal of Earth System Science, 134(4), 214.* https://doi.org/10.1007/s12040-025-02672-5. Impact Factor (JCR 2024): 1.7

Department of

Applied Chemistry

ANIL KUMAR

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Dr. Anil Kumar is a Professor and Head of the Department of Applied Chemistry at Delhi Technological University, Delhi, India. He received his M.Sc. and M.Phil. from IIT Roorkee. He received his Ph.D. from IIT Kanpur. He has received an Academia Sinica Fellowship in Taiwan and Schulich post-doctoral fellowship from Technion, IIT Israel, Haifa. He was also a visiting associate professor at Technion, IIT, Haifa, Israel. He has over 25 years of teaching experience at UG and PG levels. His areas of interest are hydrogels, coordination chemistry, porphyrinoids-based bioinorganic chemistry, and material chemistry. He has published over 55+ research papers in reputed SCI Journals and 5 Book Chapters. He has received the Commendable Research Excellence Award for nine consecutive years since the award's inception at DTU.

PUBLICATION DETAILS

1. Priyanka Yadav, Sweta Mehra, Sudhir G Warkar, **Anil Kumar** (2025). Porphyrin and Corrole-Based Frameworks for Sustainable Energy Storage. *ChemistrySelect, 10(34), e02588.* https://doi.org/10.1002/slct.202502588. Impact Factor (JCR 2024): 2.0

ANVITA CHAUDHARY

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Anvita Chaudhary was born in Mathura, UP, India. She received her B.Sc. in Chemistry (Hons.) from Banaras Hindu University in 2019 and M.Sc. in Chemistry from Banasthali Vidyapith in 2021. At present she is pursuing her Ph.D. under the supervision of Dr. Richa Srivastava at Delhi Technological University, Delhi. Her research interests lie in the design and synthesis of heterocyclic molecules and green chemistry.

PUBLICATION DETAILS

1. **Anvita Chaudhary**, Richa Srivastava (2025). Bridged N–based ionic liquid and their application in synthesis of five membered N–heterocycles. *Tetrahedron, 183, 134721.* https://doi.org/10.1016/j.tet.2025.134721. Impact Factor (JCR 2024): 2.2

ASHWANI KUMAR TIWARI

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Ashwani Kumar Tiwari is a researcher associated with Delhi Technological University (DTU), with academic interests in membrane technology and the recovery of bioactive compounds from natural sources. His work focuses on innovative separation processes for concentrating valuable phytochemicals from fruit juices and other natural matrices. Through his research, he aims to contribute to sustainable food processing and the advancement of membrane-based technologies for efficient resource utilization. His scholarly efforts reflect a commitment to scientific excellence and impactful research in the field of chemical and biochemical engineering.

PUBLICATION DETAILS

1. **Ashwani Kumar Tiwari**, Kudzai Hamish Ruzvidzo, Prafful Kumar Meena, Manish Jain (2025). Extraction of Betanin from Beetroot Juice Using a Hybrid System: System Performance and Fouling Analysis of the Membrane. *Journal of Food Process Engineering, 48(11), e70272.* https://doi.org/10.1111/jfpe.70272. Impact Factor (JCR 2024): 2.9

BABITA

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Babita hails from Palwal, Haryana. She completed her B.Sc. (Hons.) in Chemistry from Ramjas College, University of Delhi. She further pursued her M.Sc. in Chemistry with a specialization in Organic Chemistry from Delhi Technological University. During her postgraduate studies, she carried out her dissertation on green synthetic approaches toward quinoline derivatives, exploring environmentally friendly methods and deep eutectic solvents in organic synthesis. This research provided her with valuable laboratory experience and strengthened her interest in sustainable chemistry. In recognition of her outstanding academic performance during her master's program, she was awarded the Vice Chancellor's Gold Medal at Delhi Technological University.

PUBLICATION DETAILS

1. **Babita**, Kanika, Richa Srivastava (2025). Contemporary Trends in the Greener Synthetic Approaches Towards Quinoline Derivatives. *Journal of Heterocyclic Chemistry, 62, 1140-1170.* https://doi.org/10.1002/jhet.70054. Impact Factor (JCR 2024): 2.4

CHARU GUPTA

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Research scholar, Ms. Charu Gupta originally belongs to a town and a municipal council located in Palwal district, Haryana, India. She did her schooling from Vidya Anand Public School. She received her B.Sc., from University of Delhi in 2016, M.Sc., from Amity University, Noida in 2018, and currently pursuing Ph.D., in Delhi Technological University in the Department of Applied Chemistry under the supervision of Prof Ram Singh. Her research focuses on medicinal chemistry and natural product. She is interested in synthesizing organic molecules and studying natural product for various applications. She has published three research papers in refereed journals, 1 book chapter, and contributed to 5 conferences.

PUBLICATION DETAILS

1. **Charu Gupta**, Bhamini Pandey, Poonam Singh, Ram Singh (2025). Zn/Cu Layered Double Hydroxide as a Catalyst for the Synthesis of Highly Functionalized Pyrazole Derivatives. *ChemistrySelect, 10(13), e202404835.* https://doi.org/10.1002/slct.202404835. Impact Factor (JCR 2024): 2.0
2. **Charu Gupta**, Richa Srivastava, Geetanjali, Ram Singh (2025). Phytochemistry and applications of glycosides from Syzygium genus: A mini review. *Carbohydrate Research, 555, 109582.* https://doi.org/10.1016/j.carres.2025.109582. Impact Factor (JCR 2024): 2.5

DEENAN SANTHIYA

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Deenan Santhiya is an Associate Professor at the Discipline of Applied Science, Department of Applied Chemistry, Delhi Technological University, Delhi, India. She received her Master's and Doctorate degrees from the Materials Engineering Department, Indian Institute of Science, Bangalore. She has received Prof. R.M. Mallya Processing Award for the best Ph.D thesis of the year 2002. She has recently completed a DST project entitled "Topical delivery of therapeutic loaded bioglass assembly for bone regeneration" (2019-2022). Also Mentored a DST WOS B Kiran Division project entitled "Fabrication of collagen-bioactive glass corona through oral delivery for bone regeneration." She has published independent reputed research articles affiliated with Delhi Technological University. Her research interests are in the field of Nano Biotechnology, Gene delivery applications and microbial remediation of nano/micro plastics.

PUBLICATION DETAILS

1. Manjot Kaur, **Deenan Santhiya** (2025). Fabrication of Dextran-Based Edible Film for Colon-Targeted Delivery of Collagen-Bioactive Glass Complex Through Oral Route. *ChemistrySelect, 10(23), e05764.* https://doi.org/10.1002/slct.202405764. Impact Factor (JCR 2024): 2.0

DEVENDRA KUMAR

Department of Applied Chemistry



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dr. Kumar is working as Professor in the Department of Applied Chemistry, Delhi Technological University, Delhi w.e.f. 05/03/2010. He is also working as Head, Department of Applied Chemistry at Delhi Technological University, Delhi. He had worked as Head of the Department of Biotechnology at Delhi Technological University, Delhi. He is a recipient of several fellowships and awards including UGC Research Award. He has been awarded national/international projects including the International Project, viz, India–Japan Collaborative Research Project twice under DST-JSPS bilateral programme. Prof. Kumar has visited countries namely United Kingdom, Belgium, Malaysia and Japan for Research & Development activities. He has guided 22 Ph.Ds, 98 M.E./M.Tech/M.Sc projects, published 07 chapters/books and over 150 papers in the journals of international repute including Biomaterials, Sensors and Actuators, Synthetic Metals, Canadian Journal of Chemistry, European Polymer Journal, Journal of Applied Polymer Science, International Journal of Adhesion & Adhesives and Materials Science & Engineering C etc. in the areas of conducting polymers, sensors, conductive adhesives, smart hydrogels, helical materials and organic solar cells, toughening of thermosetting polymers, self-healing and blast mitigating polymer coatings. Prof. Kumar is a life member of Indian Science Congress Association, India and former member of societies like American Chemical Society, USA and Royal Society of Chemistry, London etc.

PUBLICATION DETAILS

1. Divya Hudda, **Devendra Kumar** (2025). Titanium dioxide grafted MXene-based molecularly imprinted electrochemical sensor for the ultrasensitive determination of levofloxacin. *Journal of Solid State Electrochemistry, 29, 5283-5295.* https://doi.org/10.1007/s10008-025-06379-x. Impact Factor (JCR 2024): 2.6

2. Saroj Paneru, Sweety, **Devendra Kumar** (2025). C_eO_2 nanocrystal-enhanced polyaniline biosensor for organophosphate detection: a step toward sustainable agriculture. *Polymer Bulletin, 82, 6843-6859.* https://doi.org/10.1007/s00289-025-05805-4. Impact Factor (JCR 2024): 4.0

GUNJAN VARSHNEY

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Gunjan Varshney received her Bachelor of Science (B.Sc. in Chemistry Hon.) and Master of Science (M.Sc. in Applied Chemistry) degrees from Amity University, Noida, India. She is currently pursuing her Ph.D. in Applied Chemistry at Delhi Technological University (DTU), New Delhi, under the supervision of Dr. Raminder Kaur, Associate Professor at DTU, and Prof. Mohammad Zulfequar, Professor at Jamia Millia Islamia. Her doctoral research is centered on the development and characterization of micro and nanoencapsulated phase change materials (PCM) for advanced thermal energy storage applications. Her work involves the synthesis of novel PCM systems using polymer-based encapsulation techniques, with a particular focus on enhancing thermal performance, stability, and energy efficiency for use in smart textiles, building materials, and thermal management systems.

PUBLICATION DETAILS

1. **Gunjan Varshney**, Raminder Kaur, Mohammad Zulfequar (2025). Fabrication and assessment of n -eicosane/poly(stearylmethacrylate-co-butylacrylate) nanocapsules: impact of long alkyl polymer chains on thermal performance and stability. *Nanoscale, 17, 26923-26934.* https://doi.org/10.1039/d5nr04183j. Impact Factor (JCR 2024): 5.1

JITENDRA KUMAR

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Dr. Jitendra Kumar, completed his PhD under the supervision of Prof. Roli Purwar in the Department of Applied Chemistry, Delhi Technological University, Delhi, India. He graduated with a Polymer Science (H) from Bhaskaracharya College of Applied Sciences, Delhi, University of Delhi, India, and a post-graduation in Polymer Science from University College of Science, Mohanlal Sukhadiya University, Udaipur, Rajasthan, India. He has published six research articles in reputed journals and attended three international conferences.

PUBLICATION DETAILS

1. **Jitendra Kumar**, Roli Purwar (2025). Biodegradable, biocompatible, and self-healing, injectable hydrogel based on oxidized Azadirachta indica gum and carboxymethyl chitosan through dynamic imine-linkage for biomedical application. *Iranian Polymer Journal, 34, 465-483.* https://doi.org/10.1007/s13726-024-01386-7. Impact Factor (JCR 2024): 2.8

KUNAL MADAAN

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Kunal Madaan belongs to Palwal, Haryana, India. He did his schooling from DAV Public School, Palwal, Haryana. He holds B.Sc. (Hons.) degree in Chemistry from Acharya Narendra Dev College, University of Delhi, and M.Sc. in Chemistry from Kurukshetra University. He worked for 1 year in quality control department in pharmaceutical company. He is currently pursuing his Ph.D. in Chemistry under the supervision of Prof. Ram Singh at Delhi Technological University, Delhi. His research primarily focuses on synthetic organic chemistry, particularly the synthesis of heterocyclic compounds. He is also engaged in computational studies to evaluate the potential biological applications of the synthesized molecules. He has published 5 research papers in peer-reviewed journals.

PUBLICATION DETAILS

1. **Kunal Madaan**, Ram Singh (2025). Progress In the Chemistry and Pharmacology of Isoindolin-1-One Scaffolds. *ChemMedChem, 20(17), e202500420.* https://doi.org/10.1002/cmdc.202500420. Impact Factor (JCR 2024): 3.4

LEELA GAUTAM

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Dr. Leela Gautam is a Permanent Assistant Professor in the Department of Chemistry at Zakir Husain Delhi College, University of Delhi, with teaching experience at the undergraduate level since 2013. She completed her PhD in Chemistry from Delhi Technological University (DTU) in April 2025. Her doctoral research was supervised by Prof. Sudhir G. Warkar and Dr. Manish Jain, DTU. She completed her M.Sc. and B.Sc. degrees in Chemistry from the University of Delhi. Her research interests include Synthesis of Polymeric films, Crosslinking of polymers and Dye adsorption. She has published six research papers in international journals. and has presented her work at various international conferences. In recognition of her research contributions, she received the "Research Excellence Award" from DTU in 2023 and 2025. Beyond her academic and research roles, Dr. Leela serves as a member of the Academic Council at the University of Delhi.

PUBLICATION DETAILS

1. **Leela Gautam**, Sudhir G. Warkar, Manish Jain (2025). Evaluating the Role of Carboxylic Acid Cross-linkers in PVA Matrices for Adsorptive Removal of Crystal Violet Dye. *ChemistrySelect, 10(25), e00799.* https://doi.org/10.1002/slct.202500799. Impact Factor (JCR 2024): 2.0

MANISH JAIN

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Dr. Manish Jain is an Assistant Professor in the Department of Applied Chemistry, in the discipline of Polymer Science and Chemical Technology, Delhi Technological University, Delhi. He received his master's degree (in Polymer Science and Technology) and doctorate degree (in Chemical Engineering) from the Indian Institute of Technology, Delhi. He has 16 years of research experience as a research scholar, postdoctoral fellow, and assistant professor. His area of interest is membrane-based separation processes and their applications in the fields of water treatment, petroleum processing, renewable energy production, and as a novel separation process. He has in-depth knowledge of mathematical modeling, designing, optimization, scale-up, and feasibility analysis of membrane-based processes. Dr. Manish has 39 publications in reputed and high-impact journals and also presented his work at several national and international conferences. Dr. Manish is currently handling one funded research project as Principal Investigator and supervising four Ph.D. students. He is a fellow of the Indian Institute of Chemical Engineers, and an invitee member of its Executive Committee for Northern Regional Centre.

PUBLICATION DETAILS

1. Ketan Mahawer, Ashwani Kumar Tiwari, Abeer Mutto, **Manish Jain** (2025). Modeling and experimental investigation of factors responsible for maximizing the betanin concentration by spiral-wound FO module using Na_2SO_4-based draw solution. *Food and Bioproducts Processing, 152, 54-63.* https://doi.org/10.1016/j.fbp.2025.05.001. Impact Factor (JCR 2024): 3.4
2. Kudzai Hamish Ruzvidzo, Ashwani Kumar Tiwari, Raminder Kaur, Deshraj Meena, **Manish Jain** (2025). A Critical Review on the Progress, Challenges, and Future Outlook of Forward Osmosis Desalination in the 21st Century. *Water Environment Research, 97(10), e70191.* https://doi.org/10.1002/wer.70191. Impact Factor (JCR 2024): 1.9

MANISHA YADAV

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Mrs. Manisha Yadav is a dedicated researcher in the field of environmental science and membrane technology. She completed her B.Sc. from Ahir College, Rewari, and her M.Sc. from the Central University of Haryana. She qualified the CSIR-JRF examination with an impressive All India Rank of 85, demonstrating her strong academic ability. Currently, she is pursuing her Ph.D. under the supervision of Dr. Manish Jain and co-supervision of Dr. Raminder Kaur. Her research focuses on the separation of antibiotics from wastewater using nanofiltration (NF) membrane technology, aiming to develop effective methods for removing pharmaceutical contaminants and improving water treatment processes.

PUBLICATION DETAILS

1. **Manisha Yadav**, Raminder Kaur, Manish Jain (2025). Cefadroxil Separation from Pharmaceutical Effluent Using Nanofiltration to Prevent the Development of Antibiotic Resistance in Pathogens. *Chemistry Select, 10(38), e03612.* https://doi.org/10.1002/slct.202503612. Impact Factor (JCR 2024): 2.0

PARUL YADAV

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Ms. Parul Yadav belongs to village Pandwala Kalan, Delhi, India. She completed her 10th from Sri Ram International School and 12th from R.M.S.M. Senior Secondary Public School, Delhi. She received her higher education from Amity University, Noida, earning her Bachelor of Science (B.Sc.) degree in 2019 and Master of Science (M.Sc.) degree in 2021. At present, she is pursuing Ph.D. from Dept. Applied Chemistry, Delhi Technological University, under the supervision of Prof. Ram Singh. Her research interest includes green and sustainable chemistry, medicinal chemistry, and drug discovery. She is working on neurodegenerative diseases giving emphasis on Alzheimer's disease. She has successfully published three book chapters, and five papers.

PUBLICATION DETAILS

1. **Parul Yadav**, Anchal Dabas, Ram Singh (2025). Six-membered N-heterocyclic alkaloids as ChE inhibitors in alzheimer's disease treatment. *Metabolic Brain Disease, 40(8), 309.* https://doi.org/10.1007/s11011-025-01740-5. Impact Factor (JCR 2024): 3.5

POOJA SINGH

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Dr. Pooja Singh serves as an Assistant Professor at G.L. Bajaj Institute of Technology and Management, India. A PhD holder in Chemistry, she specializes in sustainable materials and green chemistry. Her current research explores the synthesis of nonisocyanate polyurethanes (NIPUs) from biobased feedstocks and the development of advanced polymer nanocomposites for environmental applications.

PUBLICATION DETAILS

1. **Pooja Singh**, Manpreet Kour, Gunjan Varshney, Raminder Kaur (2025). Non-isocyanate polyurethane (NIPU) Foams: Overcoming challenges and embracing sustainability. *Polymer, 333, 128658.* https://doi.org/10.1016/j.polymer.2025.128658. Impact Factor (JCR 2024): 4.5

POONAM

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Poonam has done Ph.D. in Chemistry from Department of Applied Chemistry, Delhi Technological University under the supervision of Prof Ram Singh. Her work focuses on heterocyclic compounds as potential anti-Parkinson agents. Her doctoral research contributed to the design and synthesis of biologically active molecules aimed at addressing neurodegenerative disorders, reflecting her strong foundation in medicinal and synthetic organic chemistry. She is currently serving in the Department of Education, Government of NCT Delhi. Her work demonstrates a blend of scientific rigor, innovation, and social responsibility. She aspires to further contribute to the field of drug discovery and chemical sciences through continued research, collaboration, and mentorship.

PUBLICATION DETAILS

1. **Poonam**, Geetanjali, Ram Singh (2025). Imidazole-, Triazole-, and Tetrazole-Based High-Energy Ionic Liquids. *Topics in Current Chemistry, 383(3), 28.* https://doi.org/10.1007/s41061-025-00513-z. Impact Factor (JCR 2024): 8.8

POONAM SINGH

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Dr. Poonam Singh received her Ph. D. degree in Materials Chemistry from Department of Chemistry, University of Delhi. Her research interests are focused on materials chemistry of wide variety of inorganic compounds i.e. oxides, fluorides and layered hydroxide compounds, Energy upconversion, Optical and magnetic properties of solids. She has published significant number of research publications in reputed international journals She has presented her work at prestigious International as well as national Conferences as an invited speaker. She was awarded the prestigious UGC BSR Startup Grant in 2018.

PUBLICATION DETAILS

1. Sarla Yadav, **Poonam Singh**, Raminder Kaur (2025). Biogenic fabrication of zinc–nickel oxide nanoparticles via button lac for azo dye removal. *Journal of the Indian Chemical Society, 102, 102152.* https://doi.org/10.1016/j.jics.2025.102152. Impact Factor (JCR 2024): 3.4

POORNIMA BOHRA

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Poornima Bohra was born on 5 July 2001 in Nandrampur Bass, Dharuhera, in the Rewari district of Haryana. She belongs to a well-educated and supportive family, with her father, Dharmender Kumar, and mother, Radha Devi, playing a significant role in shaping her values and aspirations. From an early age, she displayed a strong inclination towards academics and discipline. She completed her schooling at Suraj School, Rewari, where she built a solid academic foundation. Poornima pursued her graduation from Gargi College, University of Delhi, completing it in 2022. Driven by her interest in science, she went on to complete her post graduation in Chemistry from Delhi Technological University in 2024. Her academic journey reflects her dedication and passion for learning. Poornima is currently focused on preparing for government job examinations, with the goal of securing a respectable position in a government organization. She is hardworking, determined, and committed to achieving her ambitions. In her free time, she enjoys teaching, reading academic books, exploring new concepts in chemistry, and engaging in self-improvement activities. Her perseverance and positive attitude continue to guide her toward a successful future.

PUBLICATION DETAILS

1. **Poornima Bohra**, Priya, Sweety, Divya Hudda, Devendra Kumar (2025). Cus@rGO Grafted PEDOT: PSS Paper-Based Electrochemical Biosensor for Sensitive Detection of Fenitrothion. *Applied Organometallic Chemistry, 39(2), e70002*. https://doi.org/10.1002/aoc.70002. Impact Factor (reported at submission): 3.7

PRIYANKA MEENA

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Priyanka Meena graduated from Ramjas College, University of Delhi, Delhi, India, and completed her post-graduation at the Indian Institute of Technology Roorkee (IIT Roorkee), Roorkee, India. She pursued her Ph.D. degree at Delhi Technological University under the supervision of Prof. Sudhir G. Warkar and Dr. Poonam Singh. She is currently working as an Assistant Professor at the IIMT Group of Colleges, Greater Noida, Uttar Pradesh, India. She has published ten research papers in reputed journals. Her research interests include the synthesis of various biopolymer-based hydrogels and their drug-delivery applications.

PUBLICATION DETAILS

1. **Priyanka Meena**, Poonam Singh, Sudhir G. Warkar (2025). Degradable pH-Sensitive Calcium-Crosslinked Tragacanth Gum/β-Cyclodextrin/Sodium Alginate Hydrogel Microspheres Prepared via Ionotropic Gelation Technique for Hydrophobic Drug Delivery. *Journal of Polymers and the Environment, 33, 928-944.* https://doi.org/10.1007/s10924-024-03449-5. Impact Factor (JCR 2024): 5.0

PRIYANKA YADAV

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Priyanka Yadav received her B.Sc. in Physical Sciences from the University of Delhi and M.Sc in Chemistry from NIT Sikkim, Currently, she is pursuing her Ph.D. with the supervision of Prof. Sudhir G Warkar and Prof. Anil Kumar at Delhi Technological University (DTU). Her research focuses on material chemistry and polymer chemistry, with an emphasis on developing innovative materials for advanced applications in various fields of applications. She has published 8 research articles in reputed SCI journals and 1 book chapter. She has received the three Commendable Research Excellence Awards at DTU.

PUBLICATION DETAILS

1. **Priyanka Yadav**, Kanishka Kashyap, Sudhir G. Warkar, Anil Kumar (2025). FeO NPs-Loaded Guar Gum/Xanthan Gum-Based Hydrogel: A Sustainable Approach for Cationic Dye Removal. *Chemistry Select, 10(19), e202500293.* https://doi.org/10.1002/slct.202500293. Impact Factor (JCR 2024): 2.0
2. **Priyanka Yadav**, Sudhir G. Warkar, Anil Kumar (2025). Fabrication of carboxymethyl tamarind kernel gum-based pH-responsive hydrogel composite for oral delivery of azithromycin drug. *International Journal of Biological Macromolecules, 322, 146662.* https://doi.org/10.1016/j.ijbiomac.2025.146662. Impact Factor (JCR 2024): 8.5

RAJINDER K. GUPTA

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Prof. Rajinder K. Gupta is working presently at Delhi Technological University, Department of Applied Chemistry. He holds (UG & PG), including his first PhD degree from Delhi University in Organic Chemistry of Natural Products and second PhD in Microbiology /Biotechnology from University of Idaho, USA. He was Alexander von Humboldt Fellow at the Technical University, Berlin, Germany, worked on Phytochemicals and Natural Products. He worked on marine bioactive agents, University of Oklahoma, USA, and on actinomycetes and on their bio catalytic /biotransformation ability of various substrates of natural origin at the University of Idaho, USA. He holds over 250 published research publications and 9 Indian Patents to his credit and he owns more than four decades of experience in academia, and industry (pharmaceutical, agrochemical, polymer and commercial test house). So far 17 students have finished and 4 are undergoing their PhD degree, 11 student's finished M. Tech thesis in Biotechnology, 57 B. Tech Biotechnology thesis/projects, 40 finished M. Tech (Food) thesis, and 15 students MSc. Chemistry. He offered consultancy to the Delhi Government to set up an ultra-modern food quality testing facility in Delhi, NABL & ISO certified. His current areas of research, include polymers, new molecules/drug candidates from microorganisms and plants, and chemistry of nutraceuticals & functional foods.

PUBLICATION DETAILS

1. Manu Nandal, Devendra Kumar, **Rajinder K. Gupta** (2025). Harnessing Lignite-Based Hydrogel for Enhanced UV Protection and Delivery of Dinotefuran in Agriculture. *ChemistrySelect, 10(25), e05884.* https://doi.org/10.1002/slct.202405884. Impact Factor (JCR 2024): 2.0

RAMINDER KAUR

Department of Applied Chemistry



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dr. Raminder Kaur is Associate Professor in the Department of Polymer Science and Chemical Technology (Applied Chemistry Department), Delhi Technological University (formerly Delhi College of Engineering), Delhi, India. She received her doctorate degree in Chemical Engineering from Indian Institute of Technology, Delhi (IITD). She has received her M.Tech degree in Polymer Technology from Department of Chemical Engineering, Panjab University, Chandigarh, Punjab and her B.Tech degree in Chemical Engineering from Beant College of Engineering and Technology, Gurdaspur, Punjab. Her research interests include Reaction Engineering, Bio-based Polymeric Materials and Composites, Polyurethane from Renewable sources, Phase Change Materials for Energy Storage, Conducting Polymers, Pollution Abatement Technologies. She has published 01 Patent, over 65 research papers in international journals, 0 4 book chapters and about 100+ papers in national and international conferences. She has worked on a different research project funded by CSIR, DRDO and DTU. She has received 'Research Excellence Award' from DTU for year 2017, 2018, 2019, 2021, 2022, 2023 and 2024. She is a fellow of IEChE, The Society of Polymer Science, India and Asian Polymer Association, MATERIALS RESEARCH SOCIETY OF INDIA, SOCIETY FOR MATERIALS CHEMISTRY, INDIAN SOCIETY OF ANALYTICAL SCIENTISTS and Reviewer of many journals of international repute.

PUBLICATION DETAILS

1. Sarla Yadav, Poonam Singh, **Raminder Kaur** (2025). Button-lac mediated preparation of Zn–Cu oxide nanoparticles for wastewater treatment. *Materials Chemistry and Physics, 344, 131157.* https://doi.org/10.1016/j.matchemphys.2025.131157. **Impact Factor (JCR 2024): 4.7**

RICHA SRIVASTAVA

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Richa Srivastava has completed her M.Sc. (Organic Chemistry) and Ph.D. from the University of Allahabad. After completing her doctoral studies, she pursued a Postdoctoral Fellowship in Molecular Biophysics at the prestigious Indian Institute of Science, Bangalore. At present, she is working in Delhi Technological University since 2010. Her research interest is at the interface of chemistry, biology, and polymer science. With expertise in organic synthesis, her group has been involved in solving challenging problems related to human health and society. Currently, her research group focuses on synthetic organic chemistry, natural products, ILs and DES, and polymer gel electrolytes for microbial fuel cells.

PUBLICATION DETAILS

1. Anvita Chaudhary, **Richa Srivastava** (2025). Synthetic Approaches of Six Membered N-Heterocycles Using Bridged N-Based Ionic Liquids: A Review. *Asian Journal of Organic Chemistry, 14(5), e202400785.* https://doi.org/10.1002/ajoc.202400785. Impact Factor (JCR 2024): 2.7

SARLA YADAV

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Sarla Yadav is a doctoral researcher in the Department of Applied Chemistry at Delhi Technological University (DTU), New Delhi, India. She completed her Bachelor of Science (B.Sc.) and Master of Science (M.Sc.) degrees in Chemistry from Maharshi Dayanand University (MDU), Rohtak, Haryana, India. She is currently pursuing her Ph.D. in Applied Chemistry under the supervision of Dr. Poonam Singh and Dr. Raminder Kaur. Her doctoral research focuses on the Synthesis of Transition metal oxide–based materials for environmental remediation and thermal energy storage applications. Her work primarily involves the chemical and green synthesis of bimetallic and trimetallic Transition-metal oxide nanomaterials and their composites. Through systematic synthesis, structural characterization, and functional evaluation, her research aims to develop efficient nanostructured materials with enhanced adsorption, catalytic, and thermal energy storage performance. Her research advances sustainable material technologies to address critical environmental challenges and improve energy storage systems. Her work integrates nanomaterials chemistry, environmentally benign synthesis strategies, and applied materials science to develop multifunctional materials with practical applications in environmental and energy-related technologies.

PUBLICATION DETAILS

1. **Sarla Yadav**, Pooja Singh, Gunjan Varshney, Saurabh, Poonam Singh, Raminder Kaur (2025). Photocatalytic degradation of crystal violet dye using phytofabricated zinc oxide nanoparticles from anthocyanin extract. *Microchemical Journal, 213, 113681.* https://doi.org/10.1016/j.microc.2025.113681. Impact Factor (JCR 2024): 5.1
2. **Sarla Yadav**, Jigyasa Pathak, Purusottam Majhi, Sandeep Kaushik, A.K. Shukla, Raminder Kaur, Ravinder Kumar, Poonam Singh (2025). Lac-based-biosynthesis of zinc–copper mixed metal oxide nanoparticles and evaluation of their antifungal activity against A.alternata and F. oxysporum. *Materials Chemistry and Physics, 330, 130152.* https://doi.org/10.1016/j.matchemphys.2024.130152. Impact Factor (JCR 2024): 4.7

SOUMYA KUMARI

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Soumya Kumari graduated from BBM College, Magadh University, Delhi, India, and completed her post-graduation at the Delhi Technological University, India, under the supervision of Prof. Sudhir G. Warkar. Her research interests include the synthesis of biopolymer-based hydrogels and their agricultural studies. She has worked on the Effect of abrasion on the protective performance as an intern at Centre for Fire, Explosive, and Environment Safety (CFEES), DRDO, under the guidance of Dr. Prasun Kumar Roy, Scientist 'G'.

PUBLICATION DETAILS

1. **Soumya Kumari**, Bhavya Rustagi, Priyanka Meena, Sudhir G. Warkar (2025). Carboxymethyl tamarind kernel gum-based superabsorbent hydrogel for release of copper micronutrient. *International Journal of Biological Macromolecules, 320, 146010.* https://doi.org/10.1016/j.ijbiomac.2025.146010. Impact Factor (JCR 2024): 8.5

SWEETY

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Dr, Sweety has completed her Ph.D. in Chemistry from Delhi Technological University (2020–2025), where her research focused on the "Development of Electrochemical Immunosensor for Cancer Biomarker Detection". She has published 12 research papers during her Ph.D. tenure. Her work has been recognized with the Research Excellence Award (2025, DTU). With a strong interest in green synthesis of novel MXene-based hybrids, she continues to contribute actively to teaching and research in the field of biosensors.

PUBLICATION DETAILS

1. **Sweety**, Divya Hudda, Devendra Kumar (2025). Ultrasensitive Electrochemical Detection of EpCAM Antigen Based on Anti-EpCAM Conjugated With Highly Flexible Ag@$Ti_3C_2T_x$ Modified Conducting Paper Platform. *Applied Organometallic Chemistry, 39(7), e70264.* https://doi.org/10.1002/aoc.70264. Impact Factor (reported at submission): 3.7

SWETA MEHRA

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Sweta Mehra has completed her master's from Delhi Technological University, New Delhi. She has done her bachelor's from University of Delhi. Her reserch work is focused on 2D materials, ceramics, and energy storage devices. She has a research experience in working as a intern in one of the well-renowned institution of India, CSIR-National Chemical Laboratory (CSIR-NCL), where her work was focused on 2D TMDCs using Chemical Vapor Deposition (CVD). In continuation of her work, she worked on 2D composites as a alternate anode material for Lithium-Ion Batteries (LIBs).

PUBLICATION DETAILS

1. **Sweta Mehra**, Sharad Singh Jadaun, Anil Kumar, Amrish K. Panwar (2025). Study of Lithium-Ion Diffusion Coefficients Through Analysis of CV and EIS for $NiMn_2O_4$ Alternate Anode Material in Lithium-Ion Batteries. *Journal of Electronic Materials, 54, 8439-8447.* https://doi.org/10.1007/s11664-025-12255-1. Impact Factor (JCR 2024): 2.5

TANUSHEE

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Ms.Tanushee completed her schooling at Kamal Public School, Delhi. She received her B.Sc. from the University of Delhi in 2017 and her M.Sc. from the Indian Institute of Technology, Roorkee in 2019. She is currently pursuing Ph.D. at Delhi Technological University in the Department of Applied Chemistry under the supervision of Prof D Kumar and Prof Ram Singh. Her research focuses on organic chemistry, analytical chemistry, and material science. She is interested in developing new organic materials and studying their applications in biosensing. She has published two research papers in refereed journals.

PUBLICATION DETAILS

1. **Tanushee**, Devendra Kumar, Ram Singh (2025). Isoalloxazine and their analogous as energy storage materials: a review. *Ionics, 31, 7631-7646.* https://doi.org/10.1007/s11581-025-06453-4. Impact Factor (JCR 2024): 2.6
2. **Tanushee**, Devendra Kumar, Ram Singh (2025). Novel electrochemical sensor based on reduced graphene oxide/10-phenylisoalloxazine for detection of persulfate. *Journal of Electroanalytical Chemistry, 998, 119529.* https://doi.org/10.1016/j.jelechem.2025.119529. Impact Factor (JCR 2024): 4.1

TARUN KUMAR GAYEN

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Tarun Kumar Gayen is currently a PhD research scholar in the Department of Applied Chemistry at Delhi Technological University (DTU), New Delhi, India. He is also working as an Assistant Professor, Chemistry, OSD, Directorate of Secondary and Higher Education, Bangladesh. He has more than 12 years of academic and teaching experience at the undergraduate, graduate, and postgraduate levels in Bangladesh. He has joined the education cadre of the Bangladesh Civil Service (BCS) in Bangladesh. He has completed his B.Sc (Hons) in Chemistry and MS in Organic Chemistry from the University of Dhaka, Bangladesh. He has participated in many national and international conferences (talk/poster).

PUBLICATION DETAILS

1. **Tarun Kumar Gayen**, Mohammad Amdad Ali, Sudhir G. Warkar (2025). Synthesis of cellulose microfibrils embedded carboxymethyl tamarind kernel gum hydrogels for water retention and controlled urea release in agricultural applications. *International Journal of Biological Macromolecules, 319, 145414.* https://doi.org/10.1016/j.ijbiomac.2025.145414. Impact Factor (JCR 2024): 8.5
2. **Tarun Kumar Gayen**, Mohammad Amdad Ali, Sudhir G. Warkar (2025). Carboxymethyl tamarind kernel gum bio-hydrogel for soil amendment and micronutrient release in sustainable agricultural technologies. *Polymer Bulletin, 82, 11857-11883.* https://doi.org/10.1007/s00289-025-05995-x. Impact Factor (JCR 2024): 4.0
3. **Tarun Kumar Gayen**, Sudhir G Warkar, Mohammad Amdad Ali (2025). Valorization of Biomass-Derived Lignin into Hydrogels for Soil Hydration and Slow-Release Fertilization. *Industrial & Engineering Chemistry Research, 64, 23661-23671.* https://doi.org/10.1021/acs.iecr.5c03927. Impact Factor (JCR 2024): 3.9

VERSHA JOSHI

Department of Applied Chemistry



AWARD SUMMARY

Commendable Research Award

Research scholar at Delhi technological university. cleared net-jrf and gate examination.

PUBLICATION DETAILS

1. **Versha Joshi**, Durgesh Nandini, Roli Purwar (2025). Environmental implications of alternatives to Per- and Polyfluoroalkylated Substances (PFAS): Synthesis and role in Aqueous Film Forming Foam (AFFF). *Journal of Fluorine Chemistry, 285-286, 110462*. https://doi.org/10.1016/j.jfluchem.2025.110462. Impact Factor (JCR 2024): 1.9



Department of

Applied Mathematics

ABHAY SRIVASTAVA

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Abhay Srivastava has completed Ph.D. in the Department of Applied Mathematics at Delhi Technological University under the supervision of Dr. Nilam. He earned his B.Sc. (2015) and M.Sc. (2017) degrees from Purvanchal University, Jaunpur (U.P.). Thereafter, He worked for three years (2017–2020) on a SERB-funded research project at the Department of Mathematics and Statistics, Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.). In August 2021, he joined DTU as a Ph.D. student. Over the course of his research journey, he has published three papers in reputed SCIE journals and has actively contributed to the academic community by presenting his work at five international conferences.

PUBLICATION DETAILS

1. **Abhay Srivastava**, Nilam (2025). Stability analysis and quantification of effects of partial and full vaccination using fractional order SVIR model. *Mathematical Medicine and Biology: A Journal of the IMA, 42, 331-358.* https://doi.org/10.1093/imammb/dqaf007. Impact Factor (JCR 2024): 1.5

ANJALI

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Ms. Anjali [2K22/PHDAM/01] is currently pursuing her Ph.D. under the supervision of Prof. Anjana Gupta in the Department of Applied Mathematics at Delhi Technological University (DTU), Delhi. She holds a B.Sc. (Hons.) in Mathematics from Miranda House, University of Delhi, and an M.Sc. in Mathematics from the Faculty of Mathematical Sciences, University of Delhi. Her research interests lie in the area of Optimization Techniques. She was upgraded to the position of Senior Research Fellow (SRF) in January 2025. She is also currently serving as a student member of the Equal Opportunity Cell (EOC) at DTU.

PUBLICATION DETAILS

1. **Anjali**, Anjana Gupta (2025). A novel Shannon entropy-based backward cloud model and cloud K-means clustering. *The Journal of Supercomputing, 81(1), 65.* https://doi.org/10.1007/s11227-024-06528-5. Impact Factor (JCR 2024): 2.7
2. **Anjali**, Anjana Gupta (2025). Dynamic cloud model based on decision field theory. *The Journal of Supercomputing, 81(4), 620.* https://doi.org/10.1007/s11227-025-06989-2. Impact Factor (JCR 2024): 2.7

C. P. SINGH

Department of Applied Mathematics



AWARD SUMMARY

Cumulative Citation Award (Silver)

Commendable Research Award

Dr. C. P. Singh is Professor & Associate Head in Mathematics in the Department of Applied Mathematics. He received his Ph.D. in theoretical cosmology from Indian Institute of Technology, Banaras Hindu University, Varanasi. His research work spans a wide array of topics in early universe cosmology, inflationary cosmology, cosmological perturbations, dark energy and dark matter, modified gravity and observation cosmology. He has published 98 research papers in National and International SCI journals and delivered many invited talks in conferences. He is also the reviewer of many journals. He has the life membership of professional society like, Astronomical Society of India, IAGRG, Indian Mathematical Society, Tensor Society of India. He has 25 years of teaching experience in pure and Applied Mathematics. He has supervised 7 PhD students till date and 4 are under supervision. He is Fellow of Royal Astronomical Society (FRAS), UK. He has received Commendable and Premier Research Excellent Awards of Delhi Technological University from 2018 onwards.

PUBLICATION DETAILS

1. Vinita Khatri, **C.P. Singh** (2025). Interacting model of bulk viscous and decaying vacuum energy. *Physics Letters B, 871, 139994.* https://doi.org/10.1016/j.physletb.2025.139994. Impact Factor (JCR 2024): 4.5

DHIRENDRA KUMAR

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Dr. Dhirendra Kumar is working as an Assistant Professor in the Department of Applied Mathematics, Delhi Technological University, Delhi, India. He received his B.Sc. degree from Banaras Hindu University, Varanasi, in the year 2011. He had completed M.Sc. in computer science from the same university in the year 2013. He recieved M.Tech. in Computer Science and Technology from Jawaharlal Nehru University in year 2015. He have earned Ph.D. degree from Jawaharlal Nehru University, New Delhi in the year 2021. His research interest includes medical image segmentation, signal processing, pattern recognition, and image classification.

PUBLICATION DETAILS

1. Rishabh, **Dhirendra Kumar**, Yogendra Meena, Kuldeep Singh (2025). Respiratory sound classification utilizing human auditory-based feature extraction. *Physica Scripta, 100, 046003.* https://doi.org/10.1088/1402-4896/adb80f. Impact Factor (JCR 2024): 2.6

GOONJAN JAIN

Department of Applied Mathematics



AWARD SUMMARY

Premier Research Award

Commendable Research Award

Dr. Goonjan Jain joined the Department of Applied Mathematics of Delhi Technological University (DTU) in 2017 as Assistant Professor. She has nine years of teaching and administrative experience. Before joining academia, she worked in Infosys as a Systems Engineer from 2009 – 2012. She received Ph.D. degree in Natural Language Processing (2015-2020) and M.Tech. degree in Computer Science and Technology (2013-2015) from Jawaharlal Nehru University (JNU), Delhi. She was awarded Junior Research Fellowship by UGC (2015) and CSIR (2013). She completed her B.E. from Vaish College of Engineering, Rohtak, Haryana (2004-2008). Her research interests include Natural Language Processing, Artificial Intelligence, Graph Theory, and Game Theory. She has published many research papers in reputed international journals like Nature – Scientific Reports, ACM Transaction and Natural Language Engineering and proceedings of international conferences like COLING (2020). She is a lifetime member of the Computer Society of India (CSI) and Indian Society for Technical Education (ISTE).

PUBLICATION DETAILS

Premier Research Award

1. Himani Pokhriyal, **Goonjan Jain** (2025). Supposititious Sarcasm Detection and Sentiment Analysis Coping Hindi Language in Social Networks Harnessing Zipf- Mandelbrot Probabilistic Optimisation and Perplexity Entropy Learning. *ACM Transactions on Asian and Low-Resource Language Information Processing, 24, 1-28.* https://doi.org/10.1145/3712061. Impact Factor (JCR 2024): 2.0

Commendable Research Award

1. Commendable Research Award Himani Pokhriyal, **Goonjan Jain** (2025). Sarcasm detection with induced sentimental cues using heuristic search based on unconstrained optimisation learning quantifying callousness on social media. *Neurocomputing, 645, 130499.* https://doi.org/10.1016/j.neucom.2025.130499. Impact Factor (JCR 2024): 6.5

MUKUL SIROHI

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Mr. Mukul Sirohi is currently a PhD scholar in the Department of Applied Mathematics, Delhi Technological University. He holds a Bachelor's degree in Honours Mathematics and a Master's degree in Honours Mathematics from the Department of Mathematics, Kirori Mal College, University of Delhi. His area of interest is Chaos theory, particularly the dynamical analysis of chaotic systems and their synchronization. Mukul has already published 8 research articles, of which 4 are SCIE-indexed and 4 are ESCI-indexed, with 1 being single-authored. Mr. Sirohi has also reviewed many research papers in his domain for many international journals of international repute.

PUBLICATION DETAILS

1. Dinesh Khattar, Naokant Deo, **Mukul Sirohi** (2025). On novel Hexa-compound combination synchronization over nineteen n-dimensional category-B chaotic systems and electronic circuit schematic. *Physica Scripta, 100, 015280.* https://doi.org/10.1088/1402-4896/ad9e3c. Impact Factor (JCR 2024): 2.6

MONU YADAV

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Dr. Monu [2K21/PHDAM/04] is currently working as a Post-Doctoral Fellow at the Indian Institute of Science Education and Research, Bhopal. He completed his Ph.D. in May 2025 in the Department of Applied Mathematics at Delhi Technological University, New Delhi, India. He received his Bachelor's degree from Rajdhani College, University of Delhi, in 2019 and a Master's degree from the Department of Applied Mathematics, Delhi Technological University, in 2021. His research interests include Data Assimilation and Extreme Weather Events. He has already published/accepted five research papers in joint authorship with his supervisor, Prof. Laxminarayan Das. He has presented his research work at national and international conferences.

PUBLICATION DETAILS

1. **Monu Yadav**, Laxminarayan Das (2025). Evaluating the intensity of Typhoons over the West Pacific basin. *Physica Scripta, 100, 056003.* https://doi.org/10.1088/1402-4896/adc3d5. Impact Factor (JCR 2024): 2.6

NILAM

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Nilam is Associate Professor of the Department of Applied Mathematics of DTU. She has a doctorate degree in Mathematics from IIT Roorkee in year 2004. Her research interest is Mathematical modelling and simulation, Differential Equations, Dynamics of Infectious diseases and Diabetes and Control theory. She has vast experience of more than 22 years in teaching and research.

PUBLICATION DETAILS

1. Vijay K. Yadav, **Nilam** (2025). Comparison of machine learning techniques for precision in measurement of glucose level in artificial pancreas. *Mathematical Methods in the Applied Sciences, 48, 7595-7608.* https://doi.org/10.1002/mma.9216. Impact Factor (JCR 2024): 1.8

RAHUL SINGH

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Mr. Rahul Singh [2K19/PHDAM/07] is a research scholar and educator in the field of Applied Mathematics. He is currently pursuing his Ph.D. in the Department of Applied Mathematics at Delhi Technological University, New Delhi, India, and is working as an Assistant Professor in the Department of Mathematics at Ramanujan College, University of Delhi. He has more than 11 years of teaching experience. He received his Bachelor's degree from K. D. College, C.C.S. University, Meerut, in 2005, and his Master's degree from the Department of Mathematics, C.C.S. University, Meerut, in 2007. He completed his M.Tech. in Computer Applications from the Department of Mathematics, IIT Delhi, in 2011. His research interests include Image Processing and Cryptography. He has already published and had research papers accepted in joint authorship with his supervisor, Prof. Laxminarayan Das. He has also presented his research work at national and international conferences.

PUBLICATION DETAILS

1. **Rahul Singh**, Laxminarayan Das, Dharminder Chaudhary (2025). Blockchain Empowered Quantum Safe Batch Aggregate Signature Algorithm for Authenticated Data Trading in Internet of Vehicles. *Transactions on Emerging Telecommunications Technologies, 36(2), e70054.* https://doi.org/10.1002/ett.70054. Impact Factor (JCR 2024): 2.5
2. **Rahul Singh**, Laxminarayan Das, Dharminder Chaudhary (2025). Building Scalable and Quantum Attack Resistant Authenticated Message Delivery System for Internet of Vehicles With Blockchain Consensus Mechanism. *Concurrency and Computation: Practice and Experience, 37(9-11), e70071.* https://doi.org/10.1002/cpe.70071. Impact Factor (JCR 2024): 1.5
3. **Rahul Singh**, Laxminarayan Das (2025). A smart contract based 6G-enabled authentication framework for cloud-integrated internet of vehicles. *Cluster Computing, 28(12), 808.* https://doi.org/10.1007/s10586-025-05395-w. Impact Factor (JCR 2024): 4.1

RAJPAL RAJBHAR

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

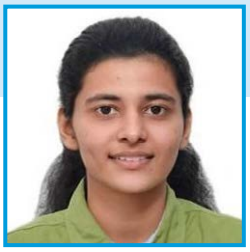
Mr. Rajpal Rajbhar [2K18/PHDAM/506] is a research scholar and educator in the field of Operations Research and Applied Mathematics. He is currently pursuing his Ph.D. in the Department of Applied Mathematics at Delhi Technological University, New Delhi, India, while working as a teacher. He received his Bachelor's degree from T.D.P.G. College, Purvanchal University, in 2006 and a Master's degree from the Department of Mathematics, T.D.P.G. College, Purvanchal University, in 2009. His research interests on the computational aspects of optimization techniques for solving constrained and unconstrained assignment problems. He has already published/accepted research papers in joint authorship with his supervisor, Prof. Laxminarayan Das. He has presented his research work at national and international conferences.

PUBLICATION DETAILS

1. **Rajpal Rajbhar**, Laxminarayan Das (2025). Advancements in and multi-objective transportation problems: techniques and comparative analysis. *Microsystem Technologies, 31, 1849-1862.* https://doi.org/10.1007/s00542-024-05829-2. Impact Factor (JCR 2024): 1.8

RASHI JAIN

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Ms. Rashi Jain has been pursuing a Ph.D. in Quantum Information Theory at the Department of Applied Mathematics, Delhi Technological University, since 2023. She holds a Bachelor's degree in Applied Mathematics from Amity University, Noida, and a Master's degree in Mathematics from Delhi Technological University, Delhi. Her research focuses primarily on quantum key distribution and quantum secure direct communication protocols. To date, she has published three research papers in reputed SCI journals and has presented her work at several international conferences.

PUBLICATION DETAILS

1. **Rashi Jain**, Satyabrata Adhikari (2025). Quantum cloning transformation unlocks the potential of W class of states in a controlled quantum secure direct communication protocol. *Physica Scripta, 100, 035113.* https://doi.org/10.1088/1402-4896/adb35c. Impact Factor (JCR 2024): 2.6
2. **Rashi Jain**, Satyabrata Adhikari (2025). Geometric discord of any arbitrary dimensional bipartite system and its application in quantum key distribution. *Physica Scripta, 100, 125102.* https://doi.org/10.1088/1402-4896/ae1f4d. Impact Factor (JCR 2024): 2.6

REENU KUMARI

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

I, Reenu Kumari am a dedicated academic professional currently pursuing Ph.D. from Delhi Technological University in Mathematics. My research area is optimization techniques. With a strong passion for teaching and research, I serve as an Assistant Professor at Maharaja Surajmal Institute of Technology, Janakpuri, New Delhi. I come from a rural background and belong to a family of farmers. I have completed my secondary and higher secondary school from Janta Inter College Babri (U.P. Board) with first class. I earned my B.Sc. in PCM from R.K. College, Shamli (C.C.S. University, Meerut) with 65.2% and obtained my M.Sc. in Mathematics from V.V. Degree College, Shamli (C.C.S. University) with 63.4%. Additionally, I have over 14 years of teaching experience. I was admitted to the Ph.D. (part-time) program at Delhi Technological University in 2019. I have published two research papers in reputed international journals indexed in SCI/SCIE, while two others have been published in ESCI. Additionally, one more research paper has been submitted for publication. I have presented two research papers at international conferences and have participated in numerous one-week short-term training programs on various topics aimed at enhancing teaching and research skills.

PUBLICATION DETAILS

1. **Reenu Kumari**, Abha Aggarwal, Anjana Gupta (2025). Cross-efficiency aggregation by ordered visibility graph averaging: method, and application in portfolio selection. *IMA Journal of Management Mathematics, 36, 83-110.* https://doi.org/10.1093/imaman/dpae012. Impact Factor (JCR 2024): 4.3

S. SIVAPRASAD KUMAR

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Prof. S. Sivaprasad Kumar is a Professor in the Department of Applied Mathematics at Delhi Technological University, with over 29 years of teaching and research experience. His research area is Complex Analysis, particularly Geometric Function Theory, focusing on univalent functions, coefficient estimates, differential subordination, and radius problems. He has published more than 75 research papers in reputed international journals and has made notable contributions to the analytic and geometric properties of complex functions. Prof. Kumar has successfully supervised nine Ph.D. scholars and is currently guiding additional doctoral students. He also served as Head of the Department of Applied Mathematics (2021–2023) at Delhi Technological University. Through his research, teaching, and mentorship, he has contributed significantly to the advancement of mathematical sciences and higher education.

PUBLICATION DETAILS

1. Neha Verma, S. Sivaprasad Kumar (2025). *On Sharp Bound of the Third Hankel Determinant for Functions in $\mathcal{S}*(\alpha)$*. Mathematical Methods in the Applied Sciences, 48, 13155-13163. https://doi.org/10.1002/mma.11091. Impact Factor (JCR 2024): 1.8

SANJAY KUMAR

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Mr. Sanjay Kumar received his M.Sc. degree in mathematics from Chaudhary Charan Singh University Campus Meerut (formerly Meerut University Meerut), he was a Phd student PHD student in department of Applied Mathematics, Delhi Technological university (formerly delhi college of engineering), Delhi. He is member of cryptology Research Society of India(CRSI).

PUBLICATION DETAILS

1. **Sanjay Kumar**, Gurjit Singh Walia, Anjana Gupta (2025). An efficient technique for reversible data hiding using bidirectional histogram shifting and multistage embedding. *Engineering Applications of Artificial Intelligence, 156, 110986.* https://doi.org/10.1016/j.engappai.2025.110986. Impact Factor (JCR 2024): 8.0

SHWETA KALSON

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Ms Shweta Kalson [2K22/PHDAM/02] is currently pursuing her PhD under the supervision of Prof. Anjana Gupta in the Department of Applied Mathematics at Delhi Technological University (DTU), Delhi. She holds a B.Sc. (Hons.) in Mathematics from Lady Shri Ram College for Women, University of Delhi, and a M.Sc. in Mathematics from the Department of Applied Mathematics, Delhi Technological University. Her research interests lie in the area of Optimization Techniques.

PUBLICATION DETAILS

1. **Shweta Kalson**, Anjana Gupta (2025). A novel reciprocal linguistic cloud model and its integration with machine learning. *The Journal of Supercomputing, 81(8), 979.* https://doi.org/10.1007/s11227-025-07428-y. Impact Factor (JCR 2024): 2.7

SUMEDHA SENIARAY

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Sumedha Seniaray is an Assistant Professor in the Department of Applied Mathematics, Delhi Technological University (DTU). She has received her doctoral degree from Department of Computer Science & Engineering, DTU. She possesses over 7 years of work experience in research and academics. Her research interests majorly lies at the intersection of cyber security and machine learning, with primary focus on network intrusion detection.

PUBLICATION DETAILS

1. **Sumedha Seniaray**, Rajni Jindal (2025). Enhanced anomaly-based network intrusion detection leveraging a modified picture fuzzy clustering approach. *Cluster Computing, 28(7), 422.* https://doi.org/10.1007/s10586-024-04952-z. Impact Factor (JCR 2024): 4.1

VINITA KHATRI

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Ms. Vinita Khatri (2K20/PHDAM/501) is currently working at Guru Gobind Singh Indraprastha University (GGSIPU), Dwarka. She submitted her Ph.D. thesis on 31 December 2025 in the Department of Applied Mathematics at Delhi Technological University. Her research interests include general relativity and cosmology. With a strong academic and research orientation, she has contributed significantly to the field through five research publications, including two papers published in 2025. She has presented her work at three international conferences. She continues to contribute to academics and research with dedication and professionalism.

PUBLICATION DETAILS

1. **Vinita Khatri**, C.P. Singh, Milan Srivastava (2025). Exploring interacting bulk viscous model with decaying vacuum density. *Astronomy and Computing, 53, 100992.* https://doi.org/10.1016/j.ascom.2025.100992. Impact Factor (JCR 2024): 1.8

VIVEK KUMAR

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Dr Vivek Kumar Aggarwal is an Associate Professor at the Department of Applied Mathematics, Delhi Technological University, Delhi, India. He received his master's and doctorate (in Mathematics) degree from the Indian Institute of Technology, Roorkee, India and the Indian Institute of Technology, Kanpur, India, respectively. He has published more than 45 research papers in national, international journals and conferences. He has guided 06 PhD students and currently, he is supervising 06 PhD students. He has received full funding from the Brazilian Govt. to attend ICM 2018 during Aug. 1-9, 2018 held in Rio, Brazil. Also, he got a visiting position in Friedrich Alexander-Universität Erlangen-Nürnberg during June - Sept. 2017, 2019, 2020. His research interests are in computational methods for differential equations.

PUBLICATION DETAILS

1. Aneesh Panchal, Abhishek Kumar Singh, **Vivek Kumar**, Mani Mehra (2025). SWARMESH: Swarm-driven adaptive mesh for singular perturbation problems. *Swarm and Evolutionary Computation, 96, 101964.* https://doi.org/10.1016/j.swevo.2025.101964. Impact Factor (JCR 2024): 8.5
2. Nitin Kumar, **Vivek Kumar**, Mani Mehra (2025). Legendre wavelet collocation method for singularly-perturbed problems using operational matrix and Laplace transformation. *ZAMM - Journal of Applied Mathematics and Mechanics / Zeitschrift für Angewandte Mathematik und Mechanik, 105(2), e202400200.* https://doi.org/10.1002/zamm.202400200. Impact Factor (JCR 2024): 3.2
3. Kirti Beniwal, **Vivek Kumar** (2025). Optimizing the bernstein collocation approach: chebyshev-gauss-lobatto nodes in singular perturbation. *Physica Scripta, 100, 035239.* https://doi.org/10.1088/1402-4896/adb703. Impact Factor (JCR 2024): 2.6

YOGESH BHARDWAJ

Department of Applied Mathematics



AWARD SUMMARY

Commendable Research Award

Yogesh Bhardwaj is a Senior Researcher in Applied Mathematics at Delhi Technological University, Delhi, India, with research interests centered on cosmology, modified gravity, and mathematical modeling. His work is primarily focused on investigating the late-time acceleration of the Universe through matter creation cosmology, Chaplygin gas models, bulk viscous cosmology, and f(Q) gravity. He has made significant scholarly contributions through publications in reputed international journals, including Annals of Physics, Communication in Theoretical Physics, Astrophysics and Space Science, and The European Physical Journal C. His research integrates strong theoretical foundations with observational and statistical analysis, employing datasets such as Pantheon+, BAO, DESI BAO, Gamma-Ray Bursts, local H_0, and Cosmic Chronometers. He is particularly committed to developing viable alternative cosmological models that can explain the accelerated expansion of the Universe. In addition to his theoretical research, Yogesh possesses substantial expertise in Python, MATLAB, R, and SQL, along with proficiency in machine learning and AI model development. His outstanding contributions to cosmology research have been recognized through the Best Researcher Award at the Indian Scientist Awards and the Research Excellence Award conferred by Delhi Technological University.

PUBLICATION DETAILS

1. **Yogesh Bhardwaj**, C.P. Singh (2025). Late cosmic acceleration by matter creation cosmology in modified gravity. *Annals of Physics, 480, 170128.* https://doi.org/10.1016/j.aop.2025.170128. Impact Factor (JCR 2024): 3.0
2. **Yogesh Bhardwaj**, C. P. *Singh* (2025). Cosmological dynamics of matter creation with modified Chaplygin gas and bulk viscosity. *The European Physical Journal C, 85(12), 1465.* https://doi.org/10.1140/epjc/s10052-025-15227-1. Impact Factor (JCR 2024): 4.8



Department of

Applied Physics

A. S. RAO

Department of Applied Physics



AWARD SUMMARY

Cumulative Citation Award (Platinum)

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Prof. A.S. Rao is working as a Professor in the department of Applied Physics, Delhi Technological University, New Delhi. Prof. Rao received his Ph.D. degrees in Physics in the year 1993 from S.V. University, Tirupati, Andhra Pradesh. He has a total of 30 years of teaching and research experience in his career. He has guided 22 students for Ph.D. and 4 students for M.Phil. and 6 students for M. Tech degrees. Currently he is guiding 6 students for the Ph.D. program. He has handled nearly 3.0 Crore worth of sponsored projects (as PI, Co-PI and Mentor) so far. He has published nearly 284 research papers in Scopus Indexed SCI International Journals of repute and nearly 163 papers in national and international conferences. Prof. Rao received seven times Commendable Research Award for Excellence in Research from DTU. His research interests are photoluminescence studies of rare earth doped glasses, phosphors and nanophosphors for photonic and biophotonic applications; measurement of trace gases and aerosols to understand the radiation budget and global warming process. His h-index as reported by Google Scholar is 54 and i-10 index is 173.

PUBLICATION DETAILS

1. Kanika Kardam, **A.S. Rao**, R.K. Sinha (2025). Structural, luminescence and Upconversion properties of green-emitting Er^{3+} doped $Sr_4Ca_2W_2O_{12}$ phosphor for white LEDs and solid-state lighting applications. *Ceramics International, 51, 65294-65308.* https://doi.org/10.1016/j.ceramint.2025.11.118. Impact Factor (JCR 2024): 5.6
2. Shweta Yadav, **A.S. Rao**, Deshraj Meena (2025). Tunability of photoluminescent properties and energy transfer behaviour of thermally stable $BaZr(PO_4)_2$: Dy^{3+}, Eu^{3+} phosphor for warm white LEDs and indoor lighting applications. *Optical Materials, 165, 117134.* https://doi.org/10.1016/j.optmat.2025.117134. Impact Factor (JCR 2024): 4.2

ABHISHEK KUMAR

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

I am Abhishek Kumar, a doctoral researcher in Materials Science at Delhi Technological University (DTU), working under the guidance of Prof. Nitin Kumar Puri. My research is centered on the design, synthesis, and characterization of advanced thin-film materials for piezoelectric energy harvesting and next-generation energy storage devices, with the broader objective of contributing to sustainable and self-powered electronic technologies. I completed my B.Sc. (Hons.) in Physics from Dyal Singh College, University of Delhi, followed by an M.Sc. in Applied Physics from DTU, where I developed a strong foundation in solidstate physics, nanomaterials, and device engineering. My PhD journey has been both challenging and transformative. It continues to make me more curious in my scientific pursuits, more humble when facing complex research problems, and deeply committed to lifelong learning and collaborative innovation. I firmly believe that rigorous experimentation, interdisciplinary thinking, and persistent inquiry are essential for meaningful scientific advancement.

PUBLICATION DETAILS

1. **Abhishek Kumar**, Savita Sharma, M. Jayasimhadri, Nitin K. Puri (2025). V_2O_5-Doped PVDF Piezoelectric Nanogenerators for Enhanced Clean and Green Energy Harvesting. *Journal of Electronic Materials, 54, 10892-10904.* https://doi.org/10.1007/s11664-025-12393-6. Impact Factor (JCR 2024): 2.5

AJEET KUMAR

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Ajeet Kumar was born in 1983 in India. He received the B.Sc. degree from Deen Dayal Upadhayay Gorakhpur University, Gorakhpur, India, in 2002, the M.Sc. degree from the Indian Institute of Technology Roorkee, Roorkee, India, in 2004, and the Ph.D. degree from the Indian Institute of Technology Roorkee, Roorkee, India, in 2009. He was a Postdoctoral Fellow in the Gwangju Institute of Science and Technology (GIST), Korea. In July 2010, he joined the Delhi Technological University, Delhi, where he is currently an Professor. He has published more than 140 research articles in journals and conference proceedings. His current research interests include novel large mode area single-mode fibers, segmented cladding fibers, fiber optic sensors, nonlinear fiber, and waveguide long period gratings. Dr. Kumar has recipient of Young Scientist Award by Uttarakhand Government, India. He is a Life member of Optical Society of India (OSI), Indian Laser association (ILA) and The Indian Science Congress Association (ISCA) and member of OPTIKA (also known as OSA).

PUBLICATION DETAILS

1. Plakshi Gupta, Akash Khamaru, **Ajeet Kumar** (2025). Highly Sensitive Black Phosphorus–Layered SPR-PCF Refractometric Sensor. *Plasmonics, 20, 7143-7153.* https://doi.org/10.1007/s11468-024-02723-5. Impact Factor (JCR 2024): 4.3

2. Arhee Bhuyan, Akash Khamaru, **Ajeet Kumar** (2025). Black Phosphorus-Based Slotted D-Shaped PCF SPR Sensor for Cancer Detection. *Plasmonics, 20, 5201-5213.* https://doi.org/10.1007/s11468-024-02715-5. Impact Factor (JCR 2024): 4.3
3. Devi Kangan B S, Akash Khamaru, **Ajeet Kumar** (2025). Design and Analysis of Twin-Core Side-Polished SPR PCF Sensor for Preliminary Malaria Detection. *Plasmonics, 20, 7069-7080.* https://doi.org/10.1007/s11468-024-02713-7. Impact Factor (JCR 2024): 4.3

AKASH KHAMARU

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Akash Khamaru was born in 1999 in Delhi, India. He received Bachelor's degree in Physical Science from Maharaja Agrasen College, University of Delhi, India in 2020 and received Master's degree in Physics from Delhi Technological University, Delhi, India in 2022. He is currently working as Ph.D. scholar in the field of fiber and integrated optics from Delhi Technological University, Delhi, India. His area of interest lies in Specialty Photonic Crystal Fiber and Waveguides for high power applications, Supercontinuum Generation, Optical amanFiber Sensors, Surface Plasmon Resonance etc. Since 2023, he has authored and co-authored 18 SCIE indexed journal research papers. He is a Student Member of the OSA and SPIE.

PUBLICATION DETAILS

1. **Akash Khamaru**, Ajeet Kumar (2025). Highly Sensitive Graded Index PCF-Based Refractometric SPR Sensor Offering Enhanced FOM. *Plasmonics, 20, 4499-4511.* https://doi.org/10.1007/s11468-024-02642-5. Impact Factor (JCR 2024): 4.3
2. **Akash Khamaru**, Ajeet Kumar (2025). Au/PtSe2-Based Surface Plasmon Resonance Photonic Crystal Fiber Biosensor for Cancer and UTI Detection. *Plasmonics, 20, 11949-11959.* https://doi.org/10.1007/s11468-025-03261-4. Impact Factor (JCR 2024): 4.3

AMAN KUMAR

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Aman Kumar completed his Graduation (B.Sc.) from Maharshi Dayanand University, Rohtak, Haryana and his Post Graduation Degree (M.Sc. Physics) from Deenbandhu Chhotu Ram University, Murthal (Sonepat), Haryana. After receiving the prestigious DTU fellowship, he started his Ph.D. journey in August 2021 under the supervision of Dr. Richa Sharma Assistant Professor at the Department of Applied Physics, Delhi Technological University New Delhi.

PUBLICATION DETAILS

1. **Aman Kumar**, Richa Sharma (2025). High output piezoelectric and triboelectric nanogenerators based on Y-doped ZnO for self-powered electronic devices. *Materials Science in Semiconductor Processing, 199, 109814.* https://doi.org/10.1016/j.mssp.2025.109814. Impact Factor (JCR 2024): 4.6

ANEESHA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Aneesha joined Delhi Technological University (DTU), Delhi, in January 2020 to pursue her Ph.D. after completing her B.Sc. and M.Sc. from Maharshi Dayanand University (MDU), Rohtak, where she secured a University Rank, demonstrating her strong academic excellence. Her research focuses on advanced nanomaterials, particularly the synthesis and optical characterization of quantum dots for sensing and environmental applications. During her Ph.D., she has published five research papers in reputed SCIE-indexed international journals and presented her research at several national and international conferences. She was granted a patent in 2023, highlighting the innovation and practical relevance of her research work. Her work mainly involves photoluminescence spectroscopy, nanomaterial synthesis, and the development of cost-effective and eco-friendly sensing probes for environmental and biomedical applications. She has also delivered an oral presentation at the World Congress on Nanotechnology and Nanoscience (Paris, 2025). Dr. Aneesha continues to actively contribute to innovative research in nanoscience and sensing technologies.

PUBLICATION DETAILS

1. **Aneesha**, Mohan Singh Mehata (2025). Waterborne explosives: A rapid detection method using $MoSe_2$ quantum dots. *Materials Research Bulletin, 185, 113287.* https://doi.org/10.1016/j.materresbull.2024.113287. Impact Factor (JCR 2024): 5.7

ANKIT

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Ankit has completed his Ph.D. at Delhi Technological University (DTU), Delhi, in April 2025. His Ph.D. thesis title is "Metamaterial based Optical Devices: Design and Analysis". Currently, He is a Project Research Scientist at the National Institute of Technology (NIT) Delhi, where he is actively involved in research. This position is allowing him to further strengthen my research skills and engage with an advanced academic environment. He received his post-graduation (M.Sc.) and graduation (B.Sc.) degrees in Physics from Maharishi Dayanand University, Haryana, India, in 2018 and 2016, respectively. His area of interest includes Metamaterial and Frequency Selective Surfaces (FSS) in microwave, visible and Far-IR region of electromagnetic spectrum. He has published 06 research papers in Scopus Indexed SCI International Journal of repute and attended various national and international conferences related to his research. He has selected twice to attend the Student Leadership Programme organised by OPTICA in Tacoma, Seattle, USA and Denver, USA. His h-index reported by Google Scholar is 5 and her i-10 index is 01.

PUBLICATION DETAILS

1. **Ankit**, Kamal Kishor, Ravindra Kumar Sinha (2025). Design of wide bandwidth metamaterial for biosensor and wireless application. *Physica Scripta, 100, 035503.* https://doi.org/10.1088/1402-4896/adadad. Impact Factor (JCR 2024): 2.6

ANSHUL

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Anshul received her B.Sc. degree in non – medical from the B.P.S. Mahila Vishwavidyalaya, Haryana, India, in 2017 and her M.Sc. degree in Physics from Maharshi Dayanand University, Haryana, India, in 2019. She is currently pursuing her Ph.D. in the Department of Applied Physics at Delhi Technological University (DTU), Delhi, under the supervision of Prof. Rishu Chaujar, a renowned expert in semiconductor device modeling. She began her doctoral research in January 2021, focusing on the development and simulation of GNRFET devices for low-power and high-performance applications. She has authored or co-authored around 7 papers in different reputed international journals and conferences. Her research interests include device physics, nanoelectronics, DFT-based modeling, semiconductor simulation, and ULSI switching applications. She is a student member of IEEE.

PUBLICATION DETAILS

1. **Anshul**, Rishu Chaujar (2025). Extended Huckel DFT-based study of Icosagens passivation at the edge of armchair graphene nanoribbon for next generation nanoelectronics applications. *Micro and Nanostructures, 207, 208263.* https://doi.org/10.1016/j.micrna.2025.208263. Impact Factor (JCR 2024): 3.0

ANU

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Anu has completed her Ph.D. at Department of Applied Physics, Delhi Technological University (DTU), Delhi, in December 2024. Her Ph.D. thesis title is "Structural, Morphological and Photoluminescence Characterization of some Rare Earth ions doped Lithium Barium Tungstate Phosphor for Photonic Applications". She has been awarded CSIR JRF (Aug.2020-Aug.2022) and CSIR SRF (Aug.2022-Dec.2024). Her area of interest includes photonic, white LEDs, laser, optoelectronic devices and non-contact optical thermometry applications of rare earth ion doped glass and phosphor materials. She has published 30 research papers in Scopus Indexed SCI International Journal of repute and attended various national and international conferences related to her research. She got the BEST STUDENT PAPER AWARD for her paper presentation at an international conference "SPIE Optics and Optoelectronics" of Smart Materials for Opto-Electronic Applications, Prague, Czech Republic and the BEST ORAL PRESENTATION AWARD in "1st International Conference on Advances in Materials Science (ICAMS-2021)" organized by Department of Physics, School of Applied Sciences, REVA University, Bangalore, India. She has been awarded the Commendable Research Award for excellence in research in 2023, 2024 and 2025 by DTU. Her h-index reported by Google Scholar is 16 and her i-10 index is 19 with total 591 citations.

PUBLICATION DETAILS

1. **Anu**, Seema, Sheetal Kumari, Pooja Rohilla, Srinibas Barik, Kumari Ruchi, Kaushal Kumar, A.S. Rao, Aman Prasad (2025). *Comprehensive luminescence analysis of $YTaO_4:Er^{3+}/Yb^{3+}/Tm^{3+}$ co-doped phosphor for optical thermometry and color tunable device applications.* Journal of Alloys and Compounds, 1023, 180108. https://doi.org/10.1016/j.jallcom.2025.180108. Impact Factor (JCR 2024): 6.3

ANURAG BHANDARI

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Anurag Bhandari is currently working at the Microelectronics Research Laboratory and pursuing his PhD degree from Delhi Technological University, Delhi, India. His research area of interest includes investigating the potential of 2D material as a gas-sensing material for toxic gases.

PUBLICATION DETAILS

1. **Anurag Bhandari**, Nitin K. Puri, Piyush Dua, Rishu Chaujar (2025). A deep insight into the adsorption mechanisms of lithium-ion battery thermal runaway gases onto Cu-decorated hBN for gas sensing applications using DFT. *Journal of Materials Chemistry A, 13, 37138-37155.* https://doi.org/10.1039/d5ta05706j. Impact Factor (JCR 2024): 9.5
2. **Anurag Bhandari**, Piyush Dua, Mukhtiyar Singh, Kamal Upreti, Shubham Mahajan, S.S. Askar, Mohamed Abouhawwash, Nitin K. Puri (2025). Adsorption mechanism of Phosgene gas onto the pristine hBN and Cu-decorated hBN: A DFT study. *Journal of Physics and Chemistry of Solids, 204, 112716.* https://doi.org/10.1016/j.jpcs.2025.112716. Impact Factor (JCR 2024): 4.9
3. **Anurag Bhandari**, Piyush Dua, Nitin K. Puri (2025). Effect of Substitutional Doping and Cu Adsorption on MoS_2 Nanowire: A Comparative DFT Study. *ChemistrySelect, 10(7), e202403122.* https://doi.org/10.1002/slct.202403122. Impact Factor (JCR 2024): 2.0

AYUSHI LAMBA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Ayushi Lamba received the B.Sc. (Hons.) degree in Physics in 2019 and the M.Sc. degree in Physics in 2021 from Hansraj College, University of Delhi, India. She is currently pursuing the Ph.D. degree with the Department of Applied Physics at Delhi Technological University (DTU), Delhi, under the supervision of Rishu Chaujar. Her doctoral research, initiated in January 2022, focuses on the development and simulation of advanced SOI FinFET devices for biosensing and gas sensing applications. She has published several research papers in international journals and conference proceedings. Her research interests include semiconductor device physics, nanoelectronic devices, computational device modeling, density functional theory (DFT) simulations, and sensing applications. She is a Student Member of the Institute of Electrical and Electronics Engineers (IEEE).

PUBLICATION DETAILS

1. **Ayushi Lamba**, Rishu Chaujar, M. Jamal Deen (2025). Negative capacitance FinFETs for low power applications: A review. *Micro and Nanostructures, 205, 208177.* https://doi.org/10.1016/j.micrna.2025.208177. Impact Factor (JCR 2024): 3.0

BHARTI SINGH

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Bharti Singh is currently working as an Assistant Professor in the Department of Applied Physics, Delhi Technological University. Before joining DTU in the year 2017, she worked as a postdoctoral fellow in the prestigious Max Planck Institute for Polymer Research, Germany, where she gained the expertise of synthesizing high quality 2D monolayer transition metal dichalcogenides, graphene and heteroatom doped graphene for various applications. She has also been awarded several prestigious fellowships which includes, DST-Inspire Faculty award, UGC start up research grant, AICTE-SPICES, SERB-SURE sponsored research project grant. During her Ph. D at IIT Delhi she has published her work in reputed journals and has also been awarded the “Distinction in Doctoral Research” for her research work in the field of copper oxide based non-volatile memory. She has published several journal and conference papers in the field of memory devices, gas sensing and piezoelectric energy harvesting, as well as three book chapters. She has supervised more than 30 B. Tech, M. Tech and M.Sc. project students and presently guiding 05 Ph. D students at DTU. Her current research interest includes synthesis of two-dimensional layered materials and their vDW heterostructures by CVD and hydrothermal technique for mechanical energy harvesting applications.

PUBLICATION DETAILS

1. Shilpa Rana, Himani Sharma, Renuka Bokolia, Kamlesh Bhatt, Rajendra Singh, Ramcharan Meena, **Bharti Singh** (2025). PVDF/N-rGO nanofibers based sustainable triboelectric nanogenerator for self-powered wireless motion sensor. *Carbon, 234, 119926.* https://doi.org/10.1016/j.carbon.2024.119926. Impact Factor (JCR 2024): 11.6

BHAVAY LUTHRA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Bhavay Luthra is a computational physicist with a Master of Science in Physics from Delhi Technological University (DTU) and a Bachelor's in Physical Science from Delhi University. His graduate research, conducted under the supervision of Dr. Kamal Kishor, specialized in the design and analysis of broadband metamaterial absorbers for mid-infrared applications. Mr. Luthra's research portfolio bridges computational electromagnetics and nuclear astrophysics. He has published original research in the Journal of Electronic Materials and has developed expertise in simulating thermonuclear reaction rates using Monte Carlo statistical methods. His technical proficiency includes Python, Fortran, and COMSOL Multiphysics, which he leverages to model complex physical phenomena with high precision. Currently, he serves as an intern in the Ballistic Division of the Forensic Science Laboratory, where he applies analytical physics to forensic investigations using Atomic Absorption Spectroscopy (AAS) and comparison microscopy. Combining academic rigor with practical laboratory experience, Mr. Luthra is committed to advancing the fields of computational physics and optical technology through innovative simulation and scientific inquiry.

PUBLICATION DETAILS

1. **Bhavay Luthra**, Ankit, Monu Nath Baitha, Kamal Kishor (2025). Broadband Multi-patterned Metamaterial Absorber for Mid-Infrared Region. *Journal of Electronic Materials, 54, 8397-8405.* https://doi.org/10.1007/s11664-025-12235-5. Impact Factor (JCR 2024): 2.5

BHAVYA KUMAR

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Bhavya Kumar received his B.Sc. degree in Physics (Hons.) from the University of Delhi, Delhi, India, in 2013, and his M.Sc. degree in Physics from Panjab University, Chandigarh, India, in 2017. He obtained his Ph.D. degree in Physics from Delhi Technological University (formerly Delhi College of Engineering), New Delhi, India, in 2024. He is currently serving as an Assistant Professor in the School of Engineering and Technology at Vivekananda Institute of Professional Studies – Technical Campus, New Delhi, India. Dr. Kumar has authored and co-authored more than 25 research papers published in reputed international journals and conferences. His current research focuses on exploring novel channel materials to enhance the performance of nanoscale semiconductor devices and studying the impact of structural parameters on FinFET performance. His research interests include modeling and simulation of nanoscale semiconductor devices and their applications in ULSI switching. He has been honored with the Premier Research Award (2024) for excellence in research and the Commendable Research Award for five consecutive years (2021–2025).

PUBLICATION DETAILS

1. **Bhavya Kumar**, Anurag Somayajula, Vishnu Sajith, Tanish Aggarwal, Rishu Chaujar (2025). Performance enhancement of a spacer-engineered GS SOI n-FinFET with 10 nm gate length. *Microelectronic Engineering, 300, 112383.* https://doi.org/10.1016/j.mee.2025.112383. Impact Factor (JCR 2024): 3.1

BHAWNA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Mrs. Bhawna has received the B.Sc. and M.Sc. degrees in Physics from Maharishi Dayanand University, Haryana, India, in 2016 and 2018, respectively. She is currently pursuing Ph.D. in the field of rare earth-doped phosphor materials at Delhi Technological University, Delhi, India. Ms. Bhawna has published 05 research papers in reputed international journals. Her research interests focus on the synthesis and optical characterization of rare-earth and transitionmetal ion-doped materials for applications in photonic devices, solid-state lighting, and optical sensing. Her citations, h-index and i-10 index reported by Google Scholar is 38, 02 and 01 respectively.

PUBLICATION DETAILS

1. **Bhawna**, Shailesh Narain Sharma, A. S. Rao (2025). Engineering Red-Emitting $Bi_7Ti_4NbO_{21}:Eu^{3+}$ Phosphors for Dual Applications in Solid-State Illumination and Temperature Sensing. *Luminescence, 40(12), e70387.* https://doi.org/10.1002/bio.70387. Impact Factor (JCR 2024): 3.0

DEEPAK GARG

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Deepak Garg received his B.Sc. (Hons.) degree in Physics from Ramjas College, University of Delhi, India, in 2021, and his M.Sc. degree in Physics from Delhi Technological University (DTU), New Delhi, India, in 2024. He is currently pursuing a Ph.D. in Physics under the supervision of Dr. Ajeet Kumar in the Department of Applied Physics at DTU (formerly Delhi College of Engineering). His research focuses on photonic waveguides and specialty optical fibers, with an emphasis on theoretical modelling and computational analysis for applications in nonlinear optics and optical sensing technologies. He is a student member of Optica (formerly OSA) and SPIE.

PUBLICATION DETAILS

1. **Deepak Garg**, Ajeet Kumar (2025). Dispersion-engineered segmented core rib waveguide for coherent and broadband supercontinuum generation in both all-normal and anomalous regimes. *Optical and Quantum Electronics, 57(5), 284.* https://doi.org/10.1007/s11082-025-08202-3. Impact Factor (JCR 2024): 4.0
2. **Deepak Garg**, Ajeet Kumar (2025). Highly coherent on-chip mid-infrared supercontinuum generation from 1.5 to 25 μm in CdTe-based Rib waveguide. *Optical and Quantum Electronics, 57(1), 96.* https://doi.org/10.1007/s11082-024-08007-w. Impact Factor (JCR 2024): 4.0
3. **Deepak Garg**, Jyotsna Singh, Ajeet Kumar (2025). Design and theoretical study of rectangular photonic crystal fiber based sensor for chemical sensing in terahertz regime. *Indian Journal of Physics, 99, 997-1005.* https://doi.org/10.1007/s12648-024-03343-9. Impact Factor (JCR 2024): 1.7

GAGAN SHARMA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

I am research scholar in applied physics department. Working on fabrication and application of energy harvesting device.

PUBLICATION DETAILS

1. **Gagan Sharma**, Deshraj Meena (2025). Substantial enhancement of the electroactive phase and dielectric properties at low loading levels of SnO_2/MXene nanocomposite as a novel nanofiller in the PVDF matrix. *Materials Science in Semiconductor Processing, 195, 109607.* https://doi.org/10.1016/j.mssp.2025.109607. Impact Factor (JCR 2024): 4.6

HEMANT KUMAR ARORA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Hemant K. Arora holds a B.Tech in Electronics and Communication Engineering (ECE) and an M.Tech in Nanotechnology from Guru Gobind Singh Indraprastha University. He is currently pursuing a Ph.D. at Delhi Technological University (DTU) under the supervision of Prof. Nitin K. Puri and Prof. Vinod Singh. His doctoral research focuses on the development of advanced nanocomposites based on two-dimensional (2D) nanomaterials. With strong techno-commercial acumen, Hemant brings extensive experience in the synthesis and characterization of a wide range of nanomaterials, along with a deep understanding of their properties and applications. Over the course of his career, he has contributed to several cutting-edge research projects in areas such as gas sensing, hydroelectric cells, and green hydrogen production, reflecting his commitment to sustainable and advanced energy solutions. His expertise also extends to lithium-ion cell technology, covering both scientific and commercial dimensions of this rapidly evolving field. By effectively bridging fundamental research with practical business applications, Hemant positions himself as a valuable contributor to the development and commercialization of high-tech solutions in the energy and electronics sectors.

PUBLICATION DETAILS

1. **Hemant K. Arora**, Jyoti Shah, R.K. Kotnala, A.S. Rao, Nitin K. Puri (2025). Strategically engineered defects in 2D-SnS for water splitting: Green energy solution for powering LEDs with hydroelectric cells. *Materials Science and Engineering: B, 313, 117949.* https://doi.org/10.1016/j.mseb.2024.117949. Impact Factor (JCR 2024): 4.6

JASVEER SINGH

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

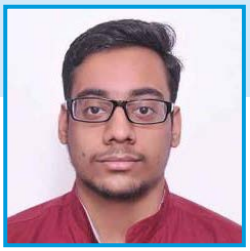
Jasveer Singh is a research scholar at Delhi Technological University, Delhi, pursuing his Ph.D. in the Nanofabrication Laboratory, Department of Applied Physics since August 2020. His current research interests focus on the development of advanced electrocatalysts for water splitting and hydrogen generation. Prior to this, he completed his Master's degree in Physics from Central University of Haryana in 2019 and his Bachelor of Science in Physics from SSN College, University of Delhi in 2017. He qualified CSIR-UGC JRF in 2019 and was awarded the Senior Research Fellowship in 2022. He has been awarded the Research Excellence Award by Delhi Technological University in 2023. He also received the Best Poster Presentation Award at ICAMNOP 2023 held at DTU. His research work has been presented at several national and international conferences, including Green Hydrogen India 2024, RPGR 2023 (Bengaluru), RASDM 2023, and TENSYS 2021 (University of Malaya).

PUBLICATION DETAILS

1. **Jasveer Singh**, Pawan K. Tyagi, Vinod Singh (2025). Potential application of reduced graphene oxide in electrocatalyst for hydrogen/oxygen evaluation reaction in water-splitting. *Diamond and Related Materials, 154, 112113.* https://doi.org/10.1016/j.diamond.2025.112113. Impact Factor (JCR 2024): 5.1

JATIN PARASHAR

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

I am Jatin Parashar. I did my MSc. in Physics from Delhi Technological University in 2024.

PUBLICATION DETAILS

1. **Jatin Parashar**, Gaurank Yadav, Seema, Anu, Aman Prasad, A. S. Rao (2025). Energy Transfer Studies on Red Emitting $CaGdSbWO_8$: Sm^{3+}/Eu^{3+} Phosphor for w-LEDs and Indoor Plant Growth Lighting System. *Journal of Fluorescence, 35, 7159-7171.* https://doi.org/10.1007/s10895-024-04066-0. Impact Factor (JCR 2024): 3.1

KAJAL VERMA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Ms. Kajal Verma is currently pursuing her Ph.D. degree in Department of Applied Physics, Delhi Technological University, Delhi, India. Her research interest involves modeling, design and simulation of semiconductor devices. She is specializing in Multigate Field Effect Transistors, ferroelectric materials, channel engineering along with several advanced technologies for high performance digital and wireless applications. She has received her master's degree (M.Sc.) in Physics from Department of Physics and Astrophysics, University of Delhi, Delhi, India with Electronics as a specialization. She has received her bachelor's degree (B.Sc. (H.)) in Physics from Hansraj college, University of Delhi, Delhi, India. She has qualified Joint CSIR-UGC NET for Assistant Professor and Junior Research Fellowship (two times) and GATE for Physics. She has been placed among top 10% in National Graduate Physics Examination. She has received Science Meritorious Award along with certificate of merit during her graduation and post-graduation. She is currently receiving CSIR-SRF (Senior Research Fellowship) during her Ph.D. and has been awarded scholarship under Ministry of Education (MoE) during graduation and post-graduation period. She has published 9 research papers in internationally reputed SCI/SCIE journals and also presented her research work in several international conferences.

PUBLICATION DETAILS

1. **Kajal Verma**, Rishu Chaujar (2025). Reliability analysis of the intricacies of interfacial trap charges in HD-VS-FeFinFET and its applicability as CMOS inverter. *Microelectronics Reliability, 166, 115610.* https://doi.org/10.1016/j.microrel.2025.115610. Impact Factor (JCR 2024): 1.9

KANIKA KARDAM

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Kanika is a dedicated and ambitious individual known for her positive attitude and determination to achieve her goals. She lives in Delhi and she completed her Bachelor of Science (B.Sc.) from Shivaji College, University of Delhi, where she built a solid foundation in physics and other core scientific subjects. After successfully completing her graduation, Kanika pursued her Master of Science (M.Sc.) in Physics from Hansraj College, University of Delhi. During her postgraduate studies, she enhanced her knowledge of advanced physics topics and gained valuable experience in scientific learning and research-oriented thinking. Through her doctoral studies, she aims to contribute to scientific research and expand knowledge in the field of physics.

PUBLICATION DETAILS

1. **Kanika Kardam**, A.S. Rao, R.K. Sinha (2025). Study on the luminescence and structural properties of the novel $Sr_4Ca_2W_2O_{12}$ phosphors doped with Sm^{3+} for high color purity in white LED applications. *Journal of Luminescence, 286, 121351.* https://doi.org/10.1016/j.jlumin.2025.121351. Impact Factor (JCR 2024): 3.6

M. JAYASIMHADRI

Department of Applied Physics



AWARD SUMMARY

Cumulative Citation Award (Platinum)

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dr. Jayasimhadri Mula is a Professor in the Department of Applied Physics at Delhi Technological University, Delhi, India, with more than 20 years of experience in teaching and research. He obtained his M.Sc. and Ph.D. degrees from Sri Venkateswara University, Tirupati, Andhra Pradesh, India. He worked as a Postdoctoral Research Associate for nearly four years (2006–2010) at the prestigious Pohang University of Science and Technology and Changwon National University in South Korea. He also visited Changwon National University as a Visiting Research Professor in 2012 and 2016. He has received several awards and recognitions for his contributions to Physical Sciences. These include Junior Scientist of the Year by the National Environmental Science Academy, the FCT Postdoctoral Fellowship from the Portuguese Government, the Brain Korea (BK21) Postdoctoral Fellowship from the Government of South Korea, and the Young Scientist Award in Physical Sciences by the Science and Engineering Research Board (SERB-DST), Government of India. He has also received the Outstanding Scientist Award by Venus International Foundation and the Bharat Vikas Award by ISR India. At Delhi Technological University, he has received the Cumulative Citation Award: Gold (2023) and the Commendable Research Award for Excellence in Research for the last seven consecutive years. He is a Member, Associate Member or Life Member of several international and national scientific societies. Dr. Jayasimhadri has been listed among the world's top 2% scientists in Applied Physics and Materials Science, as published by Stanford University for the years 2020–2025. His research interests include Optical and Fluorescent Spectroscopy and the development of rare-earth-doped materials for optoelectronic applications and luminescent devices. He has published over 150 research papers, presented more than 150 conference papers, supervised 10 Ph.D. scholars, and handled sponsored research projects exceeding ₹50 lakhs. His Google Scholar metrics include an h-index of 51 with over 7,180 citations. (*https://scholar.google.co.in/citations?user=BEOQGa8AAAAJ&hl=en*).

PUBLICATION DETAILS

1. Tushar Singh, Vertika Siwach, **M. Jayasimhadri**, K. Pavani (2025). Spectral Investigations of Thermally Stable Pr^{3+}-Embedded Zinc Borophosphate Glasses for Optoelectronic Applications. Journal of Electronic Materials, 54, 9571-9580. https://doi.org/10.1007/s11664-025-12307-6. Impact Factor (JCR 2024): 2.5

MOHAN SINGH MEHATA

Department of Applied Physics



AWARD SUMMARY

Cumulative Citation Award (Gold)

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dr. Mohan Singh Mehata is a Professor of Engineering Physics. He earned his Ph.D. from Kumaun University during 1995–2002. Throughout his career, he has received several prestigious fellowships and awards, including a Research Fellowship at Michigan Technological University, USA (2003), the DST Young Scientist Fellowship (2004), and postdoctoral fellowships at Hokkaido University, Japan (2004 and 2005). He was also awarded the Japan Society for the Promotion of Science (JSPS) Postdoctoral Fellowship (2007–09) and Research Associate at Carnegie Mellon University, USA (2009–10). Dr. Mehata has held visiting professorships at the Chinese Academy of Sciences (CAS), China (2014 and 2015), and at National Chiao Tung University, Taiwan (2019). Since 2018, he has consistently been honoured with the Research Excellence Award at Delhi Technological University (DTU), along with the Silver Citation Award (2025) and the Innovation Research Award (2024 and 2025). He has authored more than 140 publications in peer-reviewed journals and conference proceedings, including 10 as a sole author and three in journals published by the Nature Publishing Group. He is also the principal inventor of 04 granted patents. Dr. Mehata has supervised 10 Ph.D. scholars and 43 Master's students. His research initiatives have attracted over Rs. 2 crore in funding, supporting five major projects funded by DST (2004–2007, 2012–2017), DAE-BRNS (2012–2016), DST-RFBR (2017–2019), and SERB-DST

(2016– 2020). Dr. Mehata has delivered more than 42 invited talks worldwide and regularly participates in international conferences and symposiums. He has served as a screening committee member for the MEXT Fellowship (Government of Japan) and as a jury member and reviewer for the INSPIRE-MANAK Award programme under the National Innovation Foundation, Government of India, for several years. Dr. Mehata collaborates internationally with institutions in Taiwan (NYMCTU), Russia (RAS), the USA (CMU), and Germany (Con. University). His current research focuses on the synthesis and applications of semiconductor and metal nanoparticles, quantum dots, and two-dimensional (2D) materials. His work aims to advance environmental and industrial applications, particularly in optical sensing, photocatalysis, and optoelectronic devices such as quantum dot light-emitting diodes (QLEDs) and solar cells.

PUBLICATION DETAILS

1. Aneesha, **Mohan Singh Mehata** (2025). Reusable fluorescent WS2 QDs sensor for ultralow-level detection of Cr^{6+} in real water samples. *Materials Today Communications, 49, 114183.* https://doi.org/10.1016/j.mtcomm.2025.114183. Impact Factor (JCR 2024): 4.5
2. Vineet Sharma, Deepak Kumar, **Mohan Singh Mehata** (2025). Advancing photocatalytic efficiency of Mn^{2+}-doped ZnSe nanoparticles for sustainable water treatment: removal of toxic organic pollutants. *Materials Science and Engineering: B, 321, 118542.* https://doi.org/10.1016/j.mseb.2025.118542. Impact Factor (JCR 2024): 4.6
3. Isha, Aneesha, **Mohan Singh Mehata** (2025). Synthesis of Graphene Quantum Dots (GQDs) from Paddy Straw for Bilirubin Detection. *Plasmonics, 20, 2359-2366.* https://doi.org/10.1007/s11468-024-02396-0. Impact Factor (JCR 2024): 4.3
4. Shahid Husain, Nupur Pandey, Nisha Fatma, Sanjay Pant, **Mohan Singh Mehata** (2025). Quantum Computational and Spectroscopic Investigation of 3-aminosalicylic Acid. *Journal of Fluorescence, 35, 4111-4128.* https://doi.org/10.1007/s10895-024-03781-y. Impact Factor (JCR 2024): 3.1

MOHIT KUMAR

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Mohit Kumar is an active research scholar in the Department of Applied Physics and works in the area of thermoelectric materials for waste heat recovery systems. He obtained his master's degree from Delhi Technological University in 2022 and a bachelor's from the University of Delhi in 2020.

PUBLICATION DETAILS

1. **Mohit Kumar**, Deshraj Meena, Mukhtiyar Singh, Ramcharan Meena (2025). Impact of Ag-ZnO integration on charge transportation in PANI: An enhanced polymer-based thermoelectric generator. *Materials Science and Engineering: B, 322, 118648.* https://doi.org/10.1016/j.mseb.2025.118648. Impact Factor (JCR 2024): 4.6

MUKHTIYAR SINGH

Department of Applied Physics



AWARD SUMMARY

Premier Research Award

Commendable Research Award

Dr. Mukhtiyar Singh is currently serving as an Assistant Professor in the Department of Applied Physics at Delhi Technological University (DTU). He has established himself as an active researcher in the field of condensed matter physics, working at the interface of physics, materials science, and computational modelling. His research interests span across several frontier areas including: First-principles (DFT) based computational materials science; 2D materials for thermoelectric energy harvesting; Spintronics and magnetism in novel materials; Unconventional superconductivity and quantum materials; Topological phases and phase transitions; Strain and pressure engineering in functional materials; Electronic, optical, and transport properties of advanced materials; AI-assisted discovery of novel materials for next-generation technologies. Dr. Singh has made significant contributions to the scientific community, with more than 60 publications in SCI-indexed, highly reputed international journals covering diverse aspects of material properties, electronic structures, and topological phases. He has also presented his work extensively through conference proceedings and book chapters, demonstrating both depth and breadth in his research. In addition to his research, Dr. Singh is deeply engaged in mentoring and academic supervision. To date, he has guided five Ph.D. scholars, supervised 15 M.Sc. dissertations, and mentored numerous B.Tech. projects, nurturing young minds towards advanced research in physics and materials science. Dr. Singh has also been actively involved in sponsored research projects. He successfully completed a UGC start-up research project worth ₹10 lakhs and is currently leading an ANRF-sponsored project worth ₹28 lakhs, which is under active implementation. He has also awarded an "Equipment Matching Grant" of Rs. 9 lakh from DTU. Through his research and academic pursuits, Dr. Singh has consistently contributed towards advancing knowledge in quantum materials, energy harvesting, and emerging computational approaches, upholding the rich academic legacy of Delhi Technological University.

PUBLICATION DETAILS

Premier Research Award

1. Ramesh Kumar, **Mukhtiyar Singh** (2025). Existence of dual topological phases in Sn-based ternary chalcogenides. *Physical Review B, 111(19), 195128.* https://doi.org/10.1103/physrevb.111.195128. Impact Factor (JCR 2024): 3.7

Commendable Research Award

1. Anushka Pal, Rashmi Yadav, Ramesh Kumar, **Mukhtiyar Singh** (2025). An ab-initio study of structural and topological phase transition in rare-earth yttrium monophosphide. *Physics Letters A, 552, 130650.* https://doi.org/10.1016/j.physleta.2025.130650. Impact Factor (JCR 2024): 2.6
2. Sumedha Yadav, Sangeeta, Kulwinder Kumar, **Mukhtiyar Singh** (2025). Optimizing thermoelectric performance of halide perovskite Ca3AsBr3 through strain engineering. *Physics Letters A, 551, 130625.* https://doi.org/10.1016/j.physleta.2025.130625. Impact Factor (JCR 2024): 2.6
3. Nidhi, Ramesh Kumar, Ramesh K Bibiyan, **Mukhtiyar Singh** (2025). Emergence of topological phase and non-trivial surface states in rare-earth semimetal GdSb with pressure. *Journal of Physics D: Applied Physics, 58, 015304.* https://doi.org/10.1088/1361-6463/ad7da0. Impact Factor (JCR 2024): 3.2

NEHA BHATT

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Neha Bhatt's research focuses on the synthesis and investigation of transition metal dichalcogenide (TMD) nanostructures, particularly WSe_2 quantum dots, and their applications in sensing and optoelectronic devices. She has contributed to this field through research publications and presentations during her postgraduate and doctoral studies at Delhi Technological University. Her work mainly involves the synthesis of WSe_2 nanostructures, their optical characterization, and the development of photoluminescence-based sensing systems for detecting hazardous compounds such as 2,4,6-trinitrophenol (TNP). Her research has been published in reputed international journals and presented at academic forums, highlighting the potential of WSe_2 nanostructures for environmental monitoring and chemical sensing applications.

PUBLICATION DETAILS

1. **Neha Bhatt**, Mohan Singh Mehata (2025). WSe_2 quantum dots: A fluorescent probe for ultra-sensitive detection of explosive 2,4,6-trinitrophenol. *Materials Research Bulletin, 192, 113633.* https://doi.org/10.1016/j.materresbull.2025.113633. Impact Factor (JCR 2024): 5.7

NEHA PATHAK

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Neha Pathak is currently working as a Research Scientist at the Laboratory for Atmospheric and Space Physics, University of Colorado Boulder, USA (since 2021). Her research focuses on space plasma physics, specifically studying plasmas found in near-Earth space—from the Sun to the edge of our solar system—where spacecraft can directly measure plasma. She is working on data analyzing of NASA's Magnetosphere Multiscale (MMS) mission and is a team member for NASA's FINESST project, investigating particle energization due to plasma turbulence and magnetic reconnection using MMS mission data. Additionally, she contributes to the operational duties of the data selection pipeline for the MMS mission. Dr. Pathak has published 20 papers in reputed international refereed journals. She completed her master's degree in 2014 at the Indian Institute of Technology (IIT) Delhi, India. She did her Ph.D. in 2019, also from IIT Delhi, where her research focused on the "Role of whistler waves in turbulence and reconnection." From 2019 to 2021, she worked as a National Postdoctoral Fellow, receiving financial support for her research project titled "Turbulence and reconnection with application to substorms in Earth's magnetosphere."

PUBLICATION DETAILS

1. **Neha Pathak**, Jyoti, Suresh C. Sharma, R. P. Sharma (2025). Numerical simulation study of dispersive waves in presence of magnetic islands. *Astrophysics and Space Science, 370(6), 63.* https://doi.org/10.1007/s10509-025-04453-4. Impact Factor (JCR 2024): 1.5

NIKITA JAIN

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Nikita Jain holds a Ph.D. in Applied Physics from Delhi Technological University (DTU), Delhi, where her research focused on nanocomposites of two-dimensional nanomaterials and metal oxides for multifunctional applications. She also completed her M.Tech. in Nanoscience and Technology from DTU and her B.Tech. in Electronics and Communication from Maharshi Dayanand University, Rohtak, where she secured a university rank. Currently, she is working as a Senior Battery Engineer in the R&D department at Indigrid Technology Pvt. Ltd., Gurugram. Her work involves designing and optimizing advanced battery systems, particularly for electric vehicles, with a focus on improving performance, safety, and lifespan. She has expertise in NMC, NCA, and LFP battery technologies, along with thermal management and system integration. Her broader research interests include 2D nanomaterials, metal oxide-based nanostructures, gas sensing technologies, hydroelectric and self-powered sensors, and their integration in next-generation environmental monitoring systems. She has contributed significantly to research in gas sensing and nanomaterials, with multiple publications in reputed journals. She has received the Commendable Research Award in 2023, 2024, and 2025. She is skilled in experimental analysis and scientific writing; she continues to contribute to innovations in sustainable energy and advanced materials.

PUBLICATION DETAILS

1. **Nikita Jain**, Hemant K. Arora, Sunil Kumar, Nitin K. Puri (2025). First report on hydroelectric cell-driven gas sensor for the detection of ethanol at room temperature: A novel approach. *Sensors and Actuators A: Physical, 395, 117003.* https://doi.org/10.1016/j.sna.2025.117003. Impact Factor (JCR 2024): 4.9

NITIN K. PURI

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

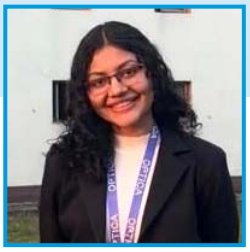
Prof. (Dr.) Nitin K. Puri is a Professor of Engineering Physics in the Department of Applied Physics at Delhi Technological University (DTU). He has been associated with DTU for the past 15 years and possesses over twenty years of experience in teaching and research. He obtained his doctorate in Experimental Atomic Physics from the Cyclotron Laboratory, Panjab University, Chandigarh. Prior to joining academia, Prof. Puri worked as an Engineer in the R&D division of HongHua Company Ltd., China. In recognition of his dedication, compassion, and professional achievements, he was honored with the "Jharkhand Excellence Award – 2025". He also received the "Gurukul Academic Award – 2022" for Excellence in Teaching and Research from the Institute for Social Reforms and Higher Education Charitable Trust (NITI Aayog–NGO Darpan), Government of India. At DTU, he has consistently demonstrated excellence in research and has been conferred the "Commendable Research Excellence Award" for eight consecutive years. He has secured research funding of approximately ₹1 crore from prestigious Government of India agencies, including SERB–DST, BRNS, and UGC–DAE; has supervised 37 M.Tech. and 13 Ph.D. students; and is currently guiding 6 Ph.D. scholars. Prof. Puri has delivered numerous invited talks and has authored more than 150 research publications in peer-reviewed journals and conference proceedings. At DTU, he has served as Associate Dean at the Centre for Extension and Field Outreach and as Chairperson of the National Service Scheme (NSS). He has also held the positions of Vice-Chairman and Chairman of Working Group III of INSEN at the IAEA, Vienna. His research focuses on 2D nanomaterial-based devices for sensing, healthcare, environmental protection, and energy harvesting.

PUBLICATION DETAILS

1. Anurag Bhandari, **Nitin K Puri**, Piyush Dua (2025). Adsorption of Cyanogen Chloride Gas Onto the Pristine and Copper-Decorated hBN Monolayer: A Comparative DFT Study. *IEEE Sensors Journal, 25, 11167-11175.* https://doi.org/10.1109/jsen.2025.3538264. Impact Factor (JCR 2024): 4.5
2. Sunil Kumar, **Nitin K Puri** (2025). SnS/SnS_2 p–n heterojunctions: accumulation layer-driven rapid and highly sensitive ethanol detection at room temperature. *Nanotechnology, 36, 275502.* https://doi.org/10.1088/1361-6528/ade4d2. Impact Factor (JCR 2024): 2.8
3. Kanika Sharma, **Nitin K Puri**, Bharti Singh (2025). Self-assembled nano-hybrid composite based on Cu/CuXO nanoflower decorated onto hBNNS for high-performance and ultra-sensitive electrochemical detection of CEA biomarker. *Bioelectrochemistry, 165, 108993.* https://doi.org/10.1016/j.bioelechem.2025.108993. Impact Factor (JCR 2024): 4.5

PLAKSHI GUPTA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Plakshi Gupta was born in 2002 in India. She received her bachelor's degree in physical science from the University of Delhi, India in 2023, and completed her master's degree in physics from Delhi Technological University, Delhi, India in 2025. Her master's research focused on the design and numerical investigation of surface plasmon resonance (SPR) based photonic crystal fiber biosensors for high-sensitivity biochemical sensing. From October to December 2025, she worked as a Project Associate at the Photonics Laboratory, IIT Kanpur, on a DRDO-funded research project involving advanced photonic metasurfaces for stealth technology. She is currently pursuing her Ph.D. in Physics at KU Leuven, Belgium. Her doctoral research focuses on nanophotonic and plasmonic metasurfaces for optical sensing applications. She has authored two SCIE-indexed journal research papers. Her research interests include nanophotonics, plasmonic metasurfaces, and optical sensing.

PUBLICATION DETAILS

1. **Plakshi Gupta**, Akash Khamaru, Ajeet Kumar (2025). Black Phosphorus-Based SPR Photonic Crystal Fiber Biosensor for Urinary Tract Infection Detection. *Plasmonics, 20, 8677-8688.* https://doi.org/10.1007/s11468-025-02911-x. Impact Factor (JCR 2024): 4.3

POOJA ROHILLA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Ms. Pooja Rohilla have completed her doctoral degree in the Department of Applied Physics at Delhi Technological University (DTU), Delhi, India. She graduated from Maharishi Dayanand University (MDU), Rohtak, and her Master's degree from DCRUST, Murthal. She has got DST- INSPIRE scholarship for her bachelor's and master's degrees. Her area of interest includes rare earth-doped phosphors and glasses for photonic applications. She has published 20 research papers and attended various national and international conferences related to her research.

PUBLICATION DETAILS

1. **Pooja Rohilla**, Shristy Malik, Sheetal Kumari, Aman Prasad, A.S. Rao (2025). Red Color Tuning and Emission Enhancement in Thermally Stable Co-Doped Ba_3MoTiO_8:Bi^{3+}/Eu^{3+} Phosphors for Photo-Electronic Applications. *ChemistrySelect, 10(6), e202405660.* https://doi.org/10.1002/slct.202405660. Impact Factor (JCR 2024): 2.0
2. **Pooja Rohilla**, Sheetal Kumari, Anu, Srinibas Barik, Kaushal Kumar, Gufran Ahmad, A.S. Rao, Aman Prasad (2025). Luminescence studies on $SrBi_2Ta_2O_9$: Ho^{3+}/Yb^{3+} phosphors for temperature sensing and optoelectronic devices applications. *Materials Science and Engineering: B, 319, 118368.* https://doi.org/10.1016/j.mseb.2025.118368. Impact Factor (JCR 2024): 4.6

PREETHI KRISHNAN

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Preethi Krishnan was born on September 12, 2001, in Alappuzha, Kerala, India. She completed her schooling in Kerala, earned her B.Sc. in Physics from All Saints' College, Thiruvananthapuram, and later pursued her M.Sc. in Physics at Delhi Technological University. Her research focuses on photonic crystal fiber (PCF) based surface plasmon resonance (SPR) sensors for biomedical detection, and she has published a paper on an MXene-coated SPR PCF sensor for HIV and sickle cell detection. Currently, she is working as a research intern at IIT Madras, focusing on optical fiber communication.

PUBLICATION DETAILS

1. **Preethi Krishnan**, Akash Khamaru, Ajeet Kumar (2025). MXene coated concave shaped microchannel PCF SPR biosensor for the detection of HIV and sickle cell anaemia. *Optical and Quantum Electronics, 57(5), 270.* https://doi.org/10.1007/s11082-025-08123-1. Impact Factor (JCR 2024): 4.0

RAHUL KUNDARA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

I am Dr. Rahul Kundara, currently working as a Post-Doctoral Fellow in the Department of Electronics and Communication Engineering in National Institute of Technology (NIT) Delhi. I have done my Ph.D. from the Department of Applied Physics, Delhi Technological University (DTU) under the supervision of Dr. Sarita Baghel. I am working on Semiconductor materials such as Perovskites and Double perovskites for their application in solar cells. The solar device structure is optimized by using SCAPS-1D simulation software. The effect of different parameters (thickness of absorber layer, operating temperature and defect density etc.) on the device efficiency was also analysed. The material synthesis done by using low-cost solution-based process and device fabrication incorporates Spin-coater and Doctor blade techniques for uniform thin film coatings.

PUBLICATION DETAILS

1. **Rahul Kundara**, Sarita Baghel (2025). Performance optimization of lead-free $KGeCl_3$ based perovskite solar cells using SCAPS-1D. *Solar Energy, 287, 113253.* https://doi.org/10.1016/j.solener.2025.113253. Impact Factor (JCR 2024): 6.6
2. Sumit Singh, **Rahul Kundara**, Sarita Baghel (2025). Device modelling and optimization of new lead-free $(NH_4)_3Sb_2I_9$ perovskite solar cells by using SCAPS-1D software. *Physica Scripta, 100, 075012.* https://doi.org/10.1088/1402-4896/addfba. Impact Factor (JCR 2024): 2.6
3. Sudhir Kumar, **Rahul Kundara**, Sarita Baghel (2025). Performance Optimization of Lead-Free $(CH_3NH_3)_3Bi_2I_9$-Based Perovskite Solar Cell: A SCAPS-1D Study. *Physica status solidi (a), 222(24), e202500632.* https://doi.org/10.1002/pssa.202500632. Impact Factor (JCR 2024): 1.9

RAMESH KUMAR

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

He obtained his PhD in June 2025, with research focused on topological quantum phases of matter in theoretical condensed matter physics. He qualified for CSIR-NET JRF in December 2018. Before that, he completed his M.Sc. in Physics from Guru Jambheshwar University of Science & Technology, Hisar, and his B.Sc. from Kurukshetra University, Kurukshetra. His research interests include topological insulators and semimetals, quantum anomalous and spin Hall effects, quantum transport properties, and machine learning-assisted materials discovery.

PUBLICATION DETAILS

1. **Ramesh Kumar**, Mukhtiyar Singh (2025). Appearance of topological phase in YAs semimetal under hydrostatic pressure and epitaxial strain. *Journal of Physics and Chemistry of Solids, 196, 112356.* https://doi.org/10.1016/j.jpcs.2024.112356. Impact Factor (JCR 2024): 4.9
2. **Ramesh Kumar**, Rajesh Kumar, Antik Sihi, Mukhtiyar Singh (2025). Unraveling the topological phase in Zintl semiconductors $RbZn_4X_3$ (X = P, As) through band engineering. *Journal of Physics: Condensed Matter, 37, 185501.* https://doi.org/10.1088/1361-648x/adc17e. Impact Factor (JCR 2024): 2.6

RAVINDRA KUMAR SINHA

Department of Applied Physics



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Prof. Ravindra Kumar Sinha has earned M.Sc. Physics from IIT Kharagpur in 1984 and Ph.D. in the area of Fiber Optics and Optoelectronics in 1989. He did his Post-Doctoral Research at Osaka and Kobe university in Japan and at IISc Bangalore during 1989-1991. He has worked at BITS Pilani, REC (now NIT) Hamirpur H.P. and DCE/DTU. He has established TIFAC-Center of Relevance and Excellence in Fiber Optics and Optical Communication under Technology Vision 2020 Program, Conceptualized and Executed B.Tech. Engineering Physics, M.Tech.(MOCE) and M.Tech. (NST)) at DTU Delhi. Prof Sinha has published over 400 research papers in reputed Journals and Conference Proceedings and 10 book chapters and 04 books, originated 07 patents, supervised 22 sponsored projects and 27 Doctoral thesis. He is the Fellow of SPIE, Optica/OSA, OSI and IETE. He has served as the Vice-Chancellor of Gautam Buddha University and Director of CSIR-CSIO Chandigarh, CEERI Pilani and IMTECH Chandigarh. He mentored 39 Technology development and their commercialization. He is recipient of Outstanding Contribution for National Development award of IITDAA, Distinguished Faculty Award of DCE/DTU Alumni Assocaition, Gold-Skoch Award for Defence Technology 2020, CSIR Technology Award 2018, Fulbright-Nehru Fellowship 2013, Royal Academy of Engineering (UK) Fellowship 2008 and JSPS Fellowship.

PUBLICATION DETAILS

1. Pooja Agarwal, Kamal Kishor, **Ravindra Kumar Sinha** (2025). Ultrasensitive terahertz metasurface for biomolecule detection based on toroidal dipole resonance. *Journal of Applied Physics, 137(19), 193103.* https://doi.org/10.1063/5.0267155. Impact Factor (JCR 2024): 2.5
2. Lokesh Ahlawat, Kamal Kishor, **Ravindra Kumar Sinha** (2025). Photonic spin Hall effect in graphene-enabled merged bound states in the continuum. *Optics Communications, 596, 132486.* https://doi.org/10.1016/j.optcom.2025.132486. Impact Factor (JCR 2024): 2.5
3. Lokesh Ahlawat, Kamal Kishor, **Ravindra Kumar Sinha** (2025). Machine Learning enabled detection of air pollutants and concentration based on Photonic Spin Hall Effect. *Optics Communications, 591, 132182.* https://doi.org/10.1016/j.optcom.2025.132182. Impact Factor (JCR 2024): 2.5

RENUKA BOKOLIA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Renuka Bokolia is an Assistant Professor in the Department of Applied Physics at Delhi Technological University (DTU), Delhi, India. She obtained her B.Sc. (Hons.) in Physics from Kirori Mal College, University of Delhi, and completed her M.Sc. in Physics with specialization in Laser and Spectroscopy from the Department of Physics and Astrophysics, University of Delhi. She received her Ph.D. in 2018 under the supervision of Prof. K. Sreenivas from the Department of Physics and Astrophysics, University of Delhi. Dr. Bokolia is an active researcher with a strong and growing academic footprint, having published around 50 research papers in reputed international journals and conferences. Her research focuses on advanced functional materials, including upconversion photoluminescent phosphors, ferroelectric ceramics, multiferroics, and magnetic materials, with applications in bioimaging, 3D displays, solid-state lasers, and luminescence thermometry. She is currently supervising four Ph.D. scholars and has successfully guided three Ph.D. students to completion. In addition, she has mentored numerous B.Tech., M.Tech., and M.Sc. students, fostering their skills in experimental research, material synthesis, and advanced characterization techniques.

PUBLICATION DETAILS

1. Megha Narwan, Ankita Banwal, Bhavya Kumar, Manoj Verma, Ankur Shandilya, Vineet Kumar Rai, Richa Sharma, **Renuka Bokolia** (2025). Ho^{3+}- driven novel orange emission and enhanced energy storage in lead-free $Bi_{0.5}Na_{0.5}TiO_3$ ceramics. *Ceramics International, 51, 48110-48121.* https://doi.org/10.1016/j.ceramint.2025.08.070. Impact Factor (JCR 2024): 5.6
2. Megha Narwan, Shilpa Rana, Bharti Singh, Manoj Verma, Manju Bala, **Renuka Bokolia** (2025). Fabrication of flexible thin film for energy harvesting application based on $Bi_{0.5}Na_{0.5}TiO_3$ nano powders. *Ceramics International, 51, 64609-64618.* https://doi.org/10.1016/j.ceramint.2025.11.195. Impact Factor (JCR 2024): 5.6

RISHU CHAUJAR

Department of Applied Physics



AWARD SUMMARY

Cumulative Citation Award (Gold)

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dr. Rishu Chaujar is presently working as a Professor in Department of Applied Physics. In addition, she is also contributing as a Director, Vinod Dham Centre of Excellence for Semiconductors and Microelectronics; and Associate Dean (Academics-UG), DTU. She has been elected and felicitated as a NASI Fellow in 2024 and this recognition became even more rewarding as she was also the Youngest Fellow elected in 2024. In 2025, she was awarded with the IETE Technomedia Award for Young Women in Engineering. She has also been selected in Stanford University List of Top 2% Scientists Worldwide (2020-2025). Her doctoral research involves modeling, design and simulation of Sub-100nm gate engineered Grooved Gate/Concave MOSFET for RFIC design and wireless applications, FinFETs, Tunnel FETs, Nanowires, HEMT structures modeling for high performance sensing, biomedical and wireless applications; and Solar Cell Modeling and Design. She has authored or co-authored more than 385 papers in various reputed international and national journals and conferences. She has supervised around 14 Ph.D scholars and 13 Ph.D scholars are presently working under her supervision. She has been awarded the PREMIER RESEARCH AWARD in 2018 and 2024; and COMMENDABLE RESEARCH AWARD for excellence in research, Delhi Technological University, for the seven consecutive years from 2018-2025. In addition, she has also been awarded the Cumulative Citation Award: SILVER in 2023 and Early Research Impact & Influence Award in 20232025. She has also been awarded the Excellence in Teaching Award, Delhi Technological University in 2020. She has supervised several National and International research projects. She has also been awarded with the prestigious SERB-POWER Fellowship project from 2022-2025 and C2S project from MeitY (2024-29). She is a reviewer of various reputed international journals. She is a Fellow of IETE, Fellow of OSI and members of various international professional societies.

PUBLICATION DETAILS

1. Anshul, **Rishu Chaujar** (2025). Towards Extended Hückel model-based reliability performance enhancement of gate stack graphene nanoribbon field effect transistor. *Microelectronics Reliability, 173, 115869.* https://doi.org/10.1016/j.microrel.2025.115869. Impact Factor (JCR 2024): 1.9
2. **Rishu Chaujar**, Mekonnen Getnet Yirak (2025). Numerical modelling for triple hybrid gate optimization dielectric modulated junctionless gate all around SiNWFET based uricase and ChOX biosensor. *Microsystem Technologies, 31, 103-122.* https://doi.org/10.1007/s00542-024-05705-z. Impact Factor (JCR 2024): 1.8
3. Kajal Verma, **Rishu Chaujar** (2025). Unveiling the Impact of Interfacial Trap Charges on Strained VS-FeFinFETs for Improved Reliability:Device to Circuit Level Assessment. *IEEE Transactions on Nanotechnology, 24, 88-95.* https://doi.org/10.1109/tnano.2025.3531937. Impact Factor (JCR 2024): 2.5
4. S. Sharma, J. Madan, **R. Chaujar** (2025). Insights Into Temperature Sensitivity Analysis of Polarity Controlled Charge Plasma Based Tunable Arsenide/Antimonide Tunneling Interfaced Junctionless TFET. *IEEE Transactions on Nanotechnology, 24, 96-101.* https://doi.org/10.1109/tnano.2025.3532313. Impact Factor (JCR 2024): 2.5

SARITA BAGHEL

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr Sarita Baghel has teaching and research experience of more than 15 years. The area of research includes : next generation solar photovoltaic technologies (Perovskite Solar cells) simulation, synthesis and characterization of materials for solar cell application, scalable solar PV manufacturing technologies, and more recently, application of Machine Learning in solar cell manufacturing.

PUBLICATION DETAILS

1. Vishal Deswal, **Sarita Baghel** (2025). Designing and optimization of a highly efficient and new lead-free Cs_2RbGaI_6 based double perovskite solar cell through SCAPS-1D and machine learning. *Inorganic Chemistry Communications, 176, 114316.* https://doi.org/10.1016/j.inoche.2025.114316. Impact Factor (JCR 2024): 5.4
2. Manabendra L. Bhuyan, Vanshika, Vishal Deswal, **Sarita Baghel** (2025). Comprehensive Study of $FAGeI_3$ Lead-Free Perovskite Solar Cell: A SCAPS-1D Simulation. *Physica status solidi (a), 222(15), 2500200.* https://doi.org/10.1002/pssa.202500200. Impact Factor (JCR 2024): 1.9

SEEMA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Ms. Seema is currently pursuing Ph.D. at Delhi Technological University, Delhi, India. She has received her B.Sc. and M.Sc. degrees in Physics from Kurukshetra University, Haryana, India, in 2014 and 2016, respectively. She has received one Commendable Research Award for Excellence in Research in DTU in 2024. She has published 05 research papers in Scopus Indexed SCI International Journals of repute and presented her research work in two international conferences. Her research interests include photoluminescence studies of rare earth ions doped phosphors for photonic, white LEDs, laser and optoelectronic device applications.

PUBLICATION DETAILS

1. **Seema**, A.S. Rao, Sarita Baghel (2025). *Up-conversion luminescence study of thermally stable $Sr_2ZnSi_2O_7$: Er^{3+} phosphors.* Optical Materials, 165, 117158. https://doi.org/10.1016/j.optmat.2025.117158. Impact Factor (JCR 2024): 4.2

SHAILESH NARAIN SHARMA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Shailesh Narain Sharma is an Emeritus Professor in the Department of Applied Physics, Delhi Technological University (DTU) since August 2024. Previously, he served as Senior Principal Scientist at CSIR-National Physical Laboratory (NPL), New Delhi, and Professor at AcSIR until his superannuation in October 2023. A distinguished researcher, Dr. Sharma earned his Ph.D. from Jadavpur University (1994) with research at IACS Kolkata, followed by postdoctoral fellowships at the University of Barcelona and the University of Notre Dame, USA. His prolific research spans phase change materials, colloidal semiconductor nanoparticles, polymers, perovskites, hybrid nanocomposites, and their applications in photovoltaics, photocatalysis, biosensors, and water remediation. He has published ~180 papers in highimpact journals, 7 book chapters, and delivered 50+ invited talks. With an h-index of 32 and nearly 4000 citations, he has mentored 18 Ph.D. scholars, 2 postdocs, and numerous M.Tech/M.Sc.

trainees. Currently, he is mentoring 2 Ph.D students and 4 M.Sc Project students of DTU in the field of colloidal quantum dots for its application in optoelectronic Devices. Dr. Sharma has led major projects, coordinated AcSIR courses, and organized international workshops (OPET 2017 & 2018). His honors include Fellowship of IAAM, IAAM Scientist Medal, Outstanding Faculty Award, and the P. R. Pisharoty Diamond Jubilee Medal. He also serves as Editorial Board Member of Crystals (MDPI), underscoring his global impact in advanced materials research.

PUBLICATION DETAILS

1. **Shailesh Narain Sharma**, Pooja Semalti, Bhawna, A. Srinivas Rao (2025). Pioneering advancements in quantum dot solar cells: Innovations in synthesis and cutting-edge applications. *Current Opinion in Colloid & Interface Science, 77, 101905.* https://doi.org/10.1016/j.cocis.2025.101905. Impact Factor (JCR 2024): 7.0
2. Pooja Semalti, **Shailesh Narain Sharma**, Archana Rana, Sahiba Bano, Ekta Rani, Praveen Tanwar (2025). Transforming CZTS photocatalysts with earth-abundant Co-catalysts: Ni, Co & Al as Noble-metal substitutes for waste water remediation. *Journal of Water Process Engineering, 77, 108523.* https://doi.org/10.1016/j.jwpe.2025.108523. Impact Factor (JCR 2024): 6.7

SHARAD SINGH JADAUN

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Sharad Singh Jadaun is a Ph.D. researcher in the field of energy storage technologies, with a focus on advanced solid-state electrolytes for next-generation batteries. Currently working at the Lithium-Ion Battery Technology Lab at Delhi Technological University, New Delhi, his work centers on developing safe, high-performance, and cost-effective alternatives to conventional liquid electrolytes. His research primarily explores garnet oxide and NASICON-type materials, with particular attention to grain size engineering, ion transport mechanisms, and structural stability. Sharad has been actively involved in synthesizing ceramic electrolytes and studying the effects of processing conditions such as particle size control, sintering strategies, and ion beam implantation. His work aims to enhance ionic conductivity and long-term electrochemical performance under varying environmental conditions. He is also engaged in innovative research on sodium-ion battery systems, including Te-doped NZSP electrolytes.

PUBLICATION DETAILS

1. **Sharad Singh Jadaun**, Amrish K. Panwar, Geetanjali (2025). Effects of heterogeneous structure on conduction mechanism and electrochemical performance of $LiTa_2PO_8$-fast lithium-ion conductor in quasi-solid-state lithium-ion batteries. *Journal of Energy Storage, 115, 116030.* https://doi.org/10.1016/j.est.2025.116030. Impact Factor (JCR 2024): 9.8

SHAVETA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Shaveta obtained her B.Tech. in Electronics and Communication Engineering (ECE) from National Institute of Technology (NIT), Hamirpur in 2004 and her M.Tech. in Nano Science and Technology from Delhi Technological University (DTU), Delhi, in 2020. She has been working in the field of MEMS-based semiconductor devices for the past two decades. In recognition of her contributions to this field, she was awarded the Scientist of the Year Award (2014) and the Group Technology Award for the years 2021, and 2022 for her work on MEMS technology at Solid State Physics Laboratory (SSPL). She is currently pursuing her Ph.D. in the Department of Applied Physics at Delhi Technological University (DTU), Delhi.

PUBLICATION DETAILS

1. **Shaveta**, R.K. Bhan, Rishu Chaujar (2025). Design optimization of MEMS gyroscope for enhanced sensitivity, bandwidth and noise reduction. *Micro and Nanostructures, 206, 208224.* https://doi.org/10.1016/j.micrna.2025.208224. Impact Factor (JCR 2024): 3.0
2. **Shaveta**, R.K. Bhan, S.S. Lamba, Vinita Gond, Rishu Chaujar (2025). Mitigating thermal effects in MEMS gyroscopes: A novel substrate integration approach. *Sensors and Actuators A: Physical, 392, 116733.* https://doi.org/10.1016/j.sna.2025.116733. Impact Factor (JCR 2024): 4.9

SHEETAL KUMARI

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

I am Dr. Sheetal Kumari, currently working as a guest faculty in Department of Applied Physics, Delhi Technological University (DTU). I have done my Ph.D. from the Department of Applied Physics, Delhi Technological University (DTU) under the supervision of Prof. A. S. Rao and Prof. R. K. Sinha. I am working on the material science with the specialization structural and photoluminescence properties of rare earth doped phosphor materials in upconversion and downconversion for solid state lighting applications. The research aims to develop efficient phosphpr materials for next generation solid state lighting , focusing on material synthesis, structural analysis and luminescence characterization to improve optical performance and energy efficiency.

PUBLICATION DETAILS

1. **Sheetal Kumari**, Pooja Rohilla, Anu, Srinibas Barik, Bhanupriya Yadav, Kaushal Kumar, Runit Isaac, A S Rao, Aman Prasad (2025). Linear and nonlinear photoluminescence in Ho^{3+}, Yb^{3+} doped $CaBi_2Nb_2O_9$ phosphor for photonic applications. *Journal of Physics D: Applied Physics, 58, 195106.* https://doi.org/10.1088/1361-6463/adc9bc. Impact Factor (JCR 2024): 3.2

SHIVANI SANGWAN

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Shivani Sangwan is a PhD Scholar in the department of applied physics. Her research work is on energy harvesting nanogenerators.

PUBLICATION DETAILS

1. **Shivani Sangwan**, Vinod Singh, Deshraj Meena (2025). Optimizing dielectric and mechanical characteristics of Ta_2O_5 reinforced PVDF flexible nanocomposite films for energy storage devices. *Ceramics International, 51, 33010-33018.* https://doi.org/10.1016/j.cer mint.2025.05.035. Impact Factor (JCR 2024): 5.6

SHUBHAM SHARMA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Shubham Sharma was born in 2001 in Jhunjhunu (Rajasthan), India. He received a Bachelor's degree in Physical Science from Deshbhandhu College, University of Delhi, India, in 2021 and received a Master's degree in Physics from Delhi Technological University, Delhi, India, in 2023. He is currently working as Ph.D. scholar in the field of fiber and Terahertz sensing applications from Delhi Technological University, Delhi, India. His area of interest lies in Specialty Photonic Crystal Fiber and Dual core PCF sensing applications, 1D photonic crystal sensing, Optical Fiber Sensors, terahertz communication, etc. Since 2024, he has authored and co authored 4 SCIEindexed journal research papers and 1 book chapter. He is a Student Member of the OSA and SPIE.

PUBLICATION DETAILS

1. **Shubham Sharma**, Akash Khamaru, Ajeet Kumar, Than Singh Saini (2025). PCF technology-based petrochemical oil sensor with improved sensitivity in the Terahertz regime. *Microsystem Technologies, 31, 3969-3992.* https://doi.org/10.1007/s00542-025-05962-6. Impact Factor (JCR 2024): 1.8
2. **Shubham Sharma**, Ajeet Kumar, Than Singh Saini (2025). Design and Simulation of a Terahertz Sensor for Blood Components Detection Using Photonic Crystal Fiber. *Journal of Electronic Materials, 54, 10936-10948.* https://doi.org/10.1007/s11664-025-12420-6. Impact Factor (JCR 2024): 2.5
3. **Shubham Sharma**, Ajeet Kumar, Than Singh Saini (2025). Design and Optimization of Refractive Index-based Spiral Shape Twin-core Photonic Crystal Fiber Sensor for Detection of Blood Components. *Cell Biochemistry and Biophysics, 83, 4933-4945.* https://doi.org/10.1007/s12013-025-01814-2. Impact Factor (JCR 2024): 2.5

SURESH C. SHARMA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

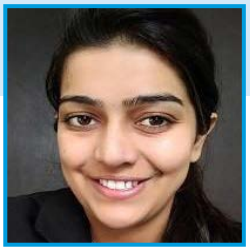
Currently, Dr. Suresh C. Sharma has been working as Professor with the Department of Applied Physics, Delhi Technological University (DTU), Delhi, India since June 13, 2012 and also held administrative responsibility of Dean (Acad-PG) from September 2, 2019 to August 31, 2022 & HoD (Applied Physics) from August 1, 2012 to September 30, 2018. He was the Chairman, Department Research Committee (DRCs) (Applied Physics), DTU from November 29, 2017 to August 15, 2023. Prior to joining DTU, he has worked as Professor, Department of Physics, MAIT (GGS Indraprastha University, Delhi), Delhi from November 1, 2009 to June 12, 2012. He was awarded the Young Scientist project as a Principal Investigator by the Department of Science and Technology (DST), Govt. of India for 2 years (1997-99). He was a Monbusho Postdoctoral Fellow under Japanese Govt. fellowship, Department of Physics, Faculty of Science, Ehime University, Matsuyama, Japan from October 1997 to March 1999. In addition, he has been a JSPS (Invitation) Postdoctoral Fellow and visiting researcher from May 2004 to October 2005 with Centre for Atomic and Molecular Technologies (CAMT), Osaka University, Japan. Also, he was awarded Senior Research Associate under the Scientist's Pool Scheme by CSIR, Govt. of India for 3 years (1999-2002). He has guided 21 Ph.D. students and several M. Tech & B. Tech students. He has published 229 research papers in Journals of International & National repute and Proceedings of International & National Conferences. He has worked on several research projects in India and abroad. He has delivered several invited and oral talks in India and abroad. He was awarded commendable Research Award for Excellence in Research by DTU, Delhi for 8 consecutive years i.e., March 2018, March 2019, March 2020, Feb 2021, March 2022, April 2023, September 5, 2024 and September 15, 2025. Prof. Sharma is a Member of the American Physical Society (APS), USA; Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), USA and many more.

PUBLICATION DETAILS

1. Ritu, Jyoti, **Suresh C Sharma**, R. P. Sharma (2025). Nonlinear effects associated with Alfven ion cyclotron wave, and turbulence generation in presence of magnetic islands in solar wind plasmas. *Physics of Plasmas, 32, 012301.* https://doi.org/10.1063/5.0227102. Impact Factor (JCR 2024): 2.2
2. Shreya Vasu, Shikha Singh, **Suresh C Sharma** (2025). Modelling and simulation of plasma-assisted 2D graphene based solar cells. *Journal of Computational Electronics, 24(2), 66.* https://doi.org/10.1007/s10825-025-02301-w. Impact Factor (JCR 2024): 2.5
3. Ritu, Jyoti, **Suresh C Sharma**, R P Sharma (2025). Effect of Alfvén wave dispersion on localization and current sheet formation in solar wind near reconnection region. *Plasma Physics and Controlled Fusion, 67, 055015.* https://doi.org/10.1088/1361-6587/adcae9. Impact Factor (JCR 2024): 2.3

VERTIKA SIWACH

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Mrs. Vertika Siwach is currently working as a full-time research scholar in the Department of Applied Physics at Delhi Technological University (DTU), Delhi. She completed her graduation (B.Sc. Physics Hons.) and post-graduation (M. Sc.) in Physics from University of Delhi (DU), Delhi in 2016 and 2021. Her research focuses on the development of advanced materials for photonic and optoelectronic applications, with particular interest in rare-earth-doped glass and glass ceramics. She explores their structural and optical properties to enhance light emission, energy conversion, and material stability for next-generation photonic devices.at Luminescent Material Research Lab (LMRL), DTU. She has published 01 research paper in different reputed international journals and attended various national and international conferences related to her research work.

PUBLICATION DETAILS

1. **Vertika Siwach**, M. Jayasimhadri (2025). Generation of tunable luminescence via energy transfer dynamics in Tm^{3+}/Dy^{3+}co-doped antimony fluoroborate glasses for photonic applications. *Journal of Molecular Structure, 1334, 141824.* https://doi.org/10.1016/j.molstruc.2025.141824. Impact Factor (JCR 2024): 4.7

VIDESH KUMAR

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

I am Videsh Kumar. I have completed an M.Sc. from Delhi Technological University.

PUBLICATION DETAILS

1. **Videsh Kumar**, Sheetal Kumari, Shristy Malik, Ravita, Tripti Sharma, Aman Prasad, A. S. Rao (2025). Enhanced Red Luminescence in Dy^{3+}/Eu^{3+} Co-doped Calcium Alumino Borosilicate Glasses for w-LED Applications. *Journal of Fluorescence, 35, 7385-7398.* https://doi.org/10.1007/s10895-024-04068-y. Impact Factor (JCR 2024): 3.1

VIKAS

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Vikas Sangwan completed his Ph.D. in the area of Photonic and optoelectronic applications from Delhi Technological University, Delhi. His research thesis focused on the "Preparation and Spectroscopic Investigations of Rare Earth Ions Doped TungstateTellurite Glasses for Photonic Applications." Currently, he is actively involved in cuttingedge research on rare-earth embedded luminescent materials, with a particular emphasis on solid-state lighting technologies. He has published 10 research papers till date in reputed International Journals and has actively participated in numerous National and International conferences aligned with his area of expertise.

PUBLICATION DETAILS

1. **Vikas** Sangwan, M. Jayasimhadri, D. Haranath (2025). Thermally stable white light emission and energy transfer analysis of tungstate-tellurite glasses co-activated with Dy^{3+}/Eu^{3+} for optoelectronic applications. *Journal of Molecular Structure, 1322, 140577.* https://doi.org/10.1016/j.molstruc.2024.140577. Impact Factor (JCR 2024): 4.7

VINOD SINGH

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Prof. Vinod Singh is a Professor and Head of the Department (HoD) of the Department of Applied Physics, Delhi Technological University, Delhi. He is also the Convener of the Institution's Innovation Council (IIC), DTU. Prof. Singh is the member of the Academic Council of DTU, the Chairperson of the Department Research Committee (DRC), the Chairperson of the Board of Studies, and Chairperson of the Department Purchase Committee (DPC) of the Department of Applied Physics, DTU. Prof. Singh has also served as the Associate Director of Human Resource Development Centre (HRDC), DTU. Prof. Singh received his Ph.D. degree from Indian Institute of Technology (IIT) Delhi. He joined Delhi College of Engineering (DCE) (Now Delhi Technological University-DTU) as a Lecturer in Physics in 2003 at the age of 23 years and has teaching, research and academic administrative experience of more than 23 years. Prof. Singh was honored with the University Gold Medal in both the B.Sc. and M.Sc. (Physics) and also honored with the Bhamashah Award (Gold Medal), presented by Sir V.S. Naipaul, Nobel Laureate. Prof. Singh is an active researcher who has guided 9 Ph.D. thesis and currently supervising 12 Ph.D. scholars and has published a patent (granted) and more than 50 research publications. He has been awarded six-time the Research Excellence Awards for excellence in research by DTU. He has delivered more than 25 invited talks in international and national academic events. Prof. Singh was the convener of two reputed International Conferences CAMNP-2019 and ICAMNOP2023 and is the editor of Springer's Proceedings in Physics. His broad areas of research include material science, sensors, 2D materials, functional nanomaterials and their size dependent properties and applications.

PUBLICATION DETAILS

1. Ramesh Kumar, Nitesh K. Chourasia, Pawan K. Kulriya, Mahesh Kumar, **Vinod Singh** *(2025).* Investigation of MoS_2-hydrogen interaction using in-situ X-ray diffraction studies. Applied Physics A, 131(1), 14. https://doi.org/10.1007/s00339-024-08143-w. Impact Factor (JCR 2024): 2.8

VISHAL DESWAL

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Vishal Deswal is a Ph.D. scholar in the Department of Applied Physics at Delhi Technological University (DTU), Delhi, India. His research focuses on the design and development of lead-free perovskite materials for solar cell applications, with the aim of advancing environmentally friendly and high-efficiency photovoltaic technologies. He has contributed significantly to the field through multiple peer-reviewed publications. Vishal has authored five research papers in SCI-indexed international journals, including three as first author, reflecting his active role in advancing research on perovskite-based solar cells. His publications focus on device modeling, material properties, and strategies for improving the efficiency and stability of lead-free perovskite photovoltaic devices. Through his doctoral research, Vishal aims to develop innovative and sustainable materials that can contribute to the global transition toward clean and renewable energy technologies.

PUBLICATION DETAILS

1. **Vishal Deswal**, Sarita Baghel (2025). Comprehensive study of highly efficient Rb_2AgInX_6 (X = Cl, Br, I) based lead-free double perovskite solar cells. *Physica Scripta, 100, 035982.* https://doi.org/10.1088/1402-4896/adb221. Impact Factor (JCR 2024): 2.6

YASH PATHAK

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Yash Pathak received his B.Sc. degree in Physics (Hons.) from Dr. Bhimrao Ambedkar University (DBRAU), Agra, Uttar Pradesh, India, in 2017, and his M.Sc. degree in Physics from the same university in 2019. He has completed his Ph.D. in the Department of Applied Physics at Delhi Technological University (formerly Delhi College of Engineering), New Delhi, India. He has authored or co-authored around 12 papers in reputed international journals and conferences. His current research focuses on investigating novel channel materials to enhance the performance of nanoscale devices, as well as analyzing the effects of various structural parameters on the performance of Negative Capacitance FETs (NCFETs). His work also involves applications of machine learning, density functional theory (DFT), and biosensing. His broader research interests include modeling and simulation of nanoscale semiconductor devices, experimental circuit design, ultra-large-scale integration (ULSI) switching applications, DFT, machine learning, and sensing technologies. He is a student member of IEEE.

PUBLICATION DETAILS

1. **Yash Pathak**, Laxman Prasad Goswami, Bansi Dhar Malhotra, Rishu Chaujar (2025). Artificial Neural Network based modelling for variational effect on double metal double gate negative capacitance FET. *Micro and Nanostructures, 206, 208225.* https://doi.org/10.1016/j.micrna.2025.208225. Impact Factor (JCR 2024): 3.0
2. **Yash Pathak**, Kajal Verma, Bansi Dhar Malhotra, Rishu Chaujar (2025). Performance evaluation of gate engineered ferroelectric MIMOS for analog/electrical IC applications. *Physica Scripta, 100, 015028.* https://doi.org/10.1088/1402-4896/ad9adf. Impact Factor (JCR 2024): 2.6

YASH YADAV

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Yash Yadav was born in Rajasthan, India. He received the B.Sc. (Physics) degrees from University of Delhi, Delhi, India, in 2020 and M.Sc. (Physics) degrees from Delhi Technological University, Delhi, India in 2023. He is currently working towards the Ph.D. degree in Optical and Quantum circuits from Delhi Technological University, Delhi, India. He has published 3 research papers in international journals and conference proceedings. His area of research interest includes Optical and Quantum circuits and their applications. He is a Student Member of OPTICA and the SPIE.

PUBLICATION DETAILS

1. **Yash Yadav**, Yogita Kalra (2025). Realization of all optical silicon slab waveguide based universal logic gates. *Optical and Quantum Electronics, 57(4), 211.* https://doi.org/10.1007/s11082-025-08130-2. Impact Factor (JCR 2024): 4.0

YOGITA KALRA

Department of Applied Physics



AWARD SUMMARY

Commendable Research Award

Dr. Yogita Kalra is working as a Professor with the Department of Applied Physics, Delhi Technological University (DTU), Delhi since 2010. Prior to joining DTU, she has worked as lecturer in Gargi College, University of Delhi in 2006-2007 and Bharti Vidyapeeth College of Engineering, Guru Gobind Singh Indraprastha University from 2008 to 2010. She did her M.Sc. in Physics from the Indian Institute of Technology (IIT), Delhi, India in 2001. In 2007, she received her Ph.D. degree from the Department of Applied Physics, University of Delhi, India. Her research interests mainly include design of all optical integrated devices, optical nanoantennas and nanophotonic devices based on photonic crystals and meta-materials. She is the coordinator of the Technology Information, Forecasting and Assessment Council (TIFAC) –Centre of Relevance and Excellence (CORE) in Fiber Optics and Optical Communication, DTU under Mission Reach program of Technology Vision 2020.She has authored about eighty research publications in the leading national and international journals of repute and referred conference proceedings.

PUBLICATION DETAILS

1. Vishakha Sharma, **Yogita Kalra**, Ravindra Kumar Sinha (2025). Chirality-driven metasurface for enhanced circular dichroism and perfect absorption: modeling and design. *Journal of Optics, 27, 095103.* https://doi.org/10.1088/2040-8986/ae059b. Impact Factor (JCR 2024): 2.7
2. Vishakha Sharma, **Yogita Kalra**, Ravindra Kumar Sinha (2025). Triple-band perovskite based chiral metasurface biosensor with multi-functionalities. *Journal of Computational Electronics, 24(3), 97.* https://doi.org/10.1007/s10825-025-02332-3. Impact Factor (JCR 2024): 2.5
3. Yash Yadav, **Yogita Kalra** (2025). Silicon slab waveguide based XOR and XNOR all optical logic gates. *Journal of Micromechanics and Microengineering, 35, 055002.* https://doi.org/10.1088/1361-6439/adcc3e. Impact Factor (JCR 2024): 2.1

Department of

Bio-Technology

AKANSHA CHAUHAN

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Akansha Chauhan is a Ph.D. scholar in the Department of Biotechnology at Delhi Technological University (DTU), Delhi. She is pursuing her doctoral research under the supervision of Prof. Jai Gopal Sharma and co-supervision of Dr. Deenan Santhiya. She completed her Bachelor of Science (B.Sc.) in 2019 and Master of Science (M.Sc.) in 2021 from Banasthali Vidyapith, Rajasthan. Her research lies in the field of environmental biotechnology, focusing on microbial degradation of microplastics. Her research involves the isolation, characterization, and evaluation of microbial strains capable of degrading plastic contaminants using microbiological, biochemical, and molecular approaches. Her broader interests include microbial biotechnology, environmental sustainability, and innovative biotechnological solutions for pollution mitigation and environmental restoration.

PUBLICATION DETAILS

1. **Akansha Chauhan**, Deenan Santhiya, Jai Gopal Sharma (2025). Mechanistic understanding of synergistic bacterial consortium-mediated biodegradation of nylon-6,6 microplastics for sustainable environmental remediation. *Clean Technologies and Environmental Policy, 27, 7807-7826.* https://doi.org/10.1007/s10098-025-03320-8. Impact Factor (JCR 2024): 3.9

ASMITA DAS

Department of Bio-Technology



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dr. Asmita Das completed her PhD in Immunology from Jawaharlal Nehru University, New Delhi, India and thereafter did postdoctoral research in the Laboratory of Immunogenetics in National Institute of Allergy and Infectious Diseases (NIAID) at National Institutes of Health (NIH) for 5years. She has been engaged in extensive research in NK cell development and NK receptor modulation and signalling. Her research in "NK cell licensing", has now been accepted and included in textbooks as a dogma in NK cell development. Her extensive research in autophagy and NK receptor signalling has generated more than 65 research papers including high impact publications like Immunity (43.4), Autophagy (16.02), Life Sciences (6.7) and many more. Her research focus is on combinatorial immunotherapy for cancer and interplay of signals in tumour microenvironment and immune-informatics. Apart from her core area of research, she is also engaged in interdisciplinary research with Civil Engineering Department in the area of Bio-concrete and multi-institution research with IIT Delhi in the field of Computational Fluid Dynamics in Immune complex diagnostics and with JNU in the field of nanotherapeutics.

PUBLICATION DETAILS

1. Simran Singh, **Asmita Das** (2025). Managing cancer in autoimmune patients: Overcoming therapeutic challenges and expanding treatment options. *Pathology - Research and Practice, 275, 156212.* https://doi.org/10.1016/j.prp.2025.156212. Impact Factor (JCR 2024): 3.2

BHARGAVI SHARMA

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Currently, Bhargavi Sharma is pursuing her Doctorate degree under the supervision and guidance of Prof. Yasha Hasija, HoD, Department of Biotechnology, Delhi Technological University (DTU), Delhi, India and Dr. Sonam Rewari, Assistant Professor, Department of Electronics and Communication, Delhi Technological University (DTU), Delhi, India. Ms. Bhargavi Sharma received her Int (B.Tech.+M.Tech.) in Biotechnology from Gautam Buddha University, Greater Noida, UP. She has published 03 research papers in Journals of International repute and presented one oral talk, two posters in abroad. Bhargavi Sharma is a Member of the Association of Asia Pacific Physical Societies-Division of Plasma Physics (AAPPS-DPP) (Member ID-2224)- October 2023.

PUBLICATION DETAILS

1. **Bhargavi Sharma**, Sonam Rewari, Yasha Hasija (2025). Nano-Pore Assisted Multigate Carbon Nanotube Organic-Plasma (MCNOP) FET - Malignancy Detector. *ECS Journal of Solid State Science and Technology, 14, 123008.* https://doi.org/10.1149/2162-8777/ae27fd. Impact Factor (JCR 2024): 2.2
2. **Bhargavi Sharma**, Sonam Rewari, Yasha Hasija (2025). Nanogap Sequestered Dielectric Modulated Gate Engineered Carbon Nanotube Bio-FET based Bio-Sensor. *ECS Journal of Solid State Science and Technology, 14, 047014.* https://doi.org/10.1149/2162-8777/adc2dd. Impact Factor (JCR 2024): 2.2

ISHA GUPTA

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Isha Gupta is a Gold Medalist in Master's in Botany and a DST INSPIRE Fellow specializing in plant biotechnology and genome engineering. Her research focuses on developing genotypeindependent regeneration systems and advancing CRISPR/Cas9-mediated genome editing in Indian soybean varieties. She is currently optimizing biolistic transformation platforms and targeting key genes such as EPSPS, ALS, and PDS to evaluate mutation efficiency and engineer herbicide-resistant traits. Her work particularly aims at developing double and multiple herbicide-resistant soybean lines for improved weed management. She also performs biochemical validation through enzyme kinetics and explores stress-responsive regulatory pathways for enhancing drought resilience. By integrating genome editing with robust tissue culture systems, she aims to accelerate crop improvement and the development of climateresilient soybean varieties for sustainable agriculture.

PUBLICATION DETAILS

1. **Isha Gupta**, Jai Gopal Sharma, Tanushri Kaul (2025). Nanoparticle-driven CRISPR-Cas9 genome editing: a new frontier in crop improvement. *Molecular Biology Reports, 52(1), 1015.* https://doi.org/10.1007/s11033-025-11064-3. Impact Factor (JCR 2024): 2.8

JAI GOPAL SHARMA

Department of Bio-Technology



AWARD SUMMARY

Cumulative Citation Award (Silver)

Yearly Citation Award (Early Research Impact and Influence Award)

Prof. Jai Gopal Sharma is a distinguished Professor in the Department of Biotechnology at Delhi Technological University (DTU), India, with over 32 years of teaching, research, and academic leadership experience. He previously served as the Head of the Department of Biotechnology (2018–2020) and is currently the Faculty Coordinator of the Centre for Extension and Field Outreach at DTU Prof. Sharma obtained his Ph.D. in Zoology from the University of Delhi and completed his postdoctoral fellowship at Kyoto University, Japan. His research interests encompass environmental biotechnology, water quality management, bioremediation, nanobiotechnology, aquaculture, biosensors, pharmaceutical wastewater treatment, microbial biodegradation, and sustainable environmental technologies. Throughout his career, Prof. Sharma has successfully supervised numerous Ph.D., M. Tech., and M.Sc. scholars and has made significant contributions to scientific literature through more than 185 research publications, in addition to books and book chapters. He also holds a patent for a reusable digestion tube for amino acid analysis, reflecting his commitment to innovation and applied research. Prof. Sharma has served as Principal Investigator for several nationally and internationally funded research projects supported by agencies including the Department of Biotechnology (DBT), Department of Science and Technology (DST), Science and Engineering Research Board (SERB), University Grants Commission (UGC), Council of Scientific and Industrial Research (CSIR), and other collaborative organizations. His research has addressed diverse areas such as nano-enabled biosensors, microbial degradation of pesticides, treatment of pharmaceutical wastewater, sustainable aquaculture and fish nutrition, diagnostic nanodevices, UV-B stress mitigation in fish larvae, and women-centric fish culture technologies in the National Capital Region. His outstanding contributions to research and higher education have been recognized through several prestigious honours, including the Education Excellence Award (2021), Commendable Research Excellence Awards (2021-2024), and the National Green Award. Prof. Sharma has also represented India at numerous international scientific conferences and collaborative programmes in countries including Japan, the United States, the United Kingdom, and several others. In addition, he serves on the editorial boards of reputed scientific journals, contributing to the advancement of biotechnology and environmental sciences through research, mentorship, and academic leadership.

KHUSHI YADAV

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Khushi Yadav is a Ph.D. scholar in the Department of Biotechnology at Delhi Technological University (DTU), India, with a strong background in bioinformatics, genomics, and machine learning-driven biomedical research. Her research focuses on developing novel therapeutic strategies to understand the molecular crosstalk between oral and esophageal cancers using interpretable machine learning approaches. She holds an M.Sc. in Biotechnology from DTU (CGPA 8.9) and a B.Sc. (Hons.) in Biotechnology from Amity University (CGPA 9.30). Khushi has contributed to multiple peer-reviewed journal publications, IEEE conference proceedings, and a book chapter, with work centered on biomarker discovery, gene expression analysis, and multi-omics data integration. Her research interests lie at the intersection of computational biology, cancer genomics, and interpretable machine learning, with a focus on translating data-driven insights into clinically relevant applications.

PUBLICATION DETAILS

1. **Khushi Yadav**, Yasha Hasija (2025). Integrated analysis of gene expressions and targeted mirnas for explaining crosstalk between oral and esophageal squamous cell carcinomas through an interpretable machine learning approach. *Medical & Biological Engineering & Computing, 63, 483-495.* https://doi.org/10.1007/s11517-024-03210-z. Impact Factor (JCR 2024): 2.6

KRITI BHANDARI

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Dr. Kriti Bhandari is an Assistant Professor at the Department of Biotechnology, Delhi Technological University, Delhi, India. She has been actively engaged in research and teaching activities for the last 12 years. Her research area includes Biochemical Engineering, Biofuel and Enzyme Technology. She has been the recipient of Canadian Commonwealth Graduate Exchange Program Fellowship and also awarded with CSIR-JRF NET and GATE. She has published many peer-reviewed scientific articles in reputed journals.

PUBLICATION DETAILS

1. Bharmjeet Singh, Nishant Kumar, Aman Yadav, Rohan, **Kriti Bhandari** (2025). Harnessing the Power of Bacteriocins: A Comprehensive Review on Sources, Mechanisms, and Applications in Food Preservation and Safety. *Current Microbiology, 82(4), 174.* https://doi.org/10.1007/s00284-025-04155-8. Impact Factor (JCR 2024): 2.6

MEGHA BANSAL

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Megha is an Environmental Biotechnologist whose research lies at the intersection of microbial biotechnology and environmental sustainability. Her work focuses on the biodegradation of persistent microplastics using microorganisms and microbial consortia, with an emphasis on understanding microbe–plastic interactions and mechanisms of polymer degradation. Driven by scientific curiosity and a strong commitment to addressing emerging environmental challenges, she is passionate about continuous learning, interdisciplinary exploration, and translating research insights into sustainable solutions.

PUBLICATION DETAILS

1. **Megha Bansal**, Deenan Santhiya, Jai Gopal Sharma (2025). Simulated dump yard microbes drive significant biodegradation of polypropylene and polyvinyl chloride microplastics. *Journal of Hazardous Materials, 494, 138545.* https://doi.org/10.1016/j.jhazmat.2025.138545. Impact Factor (JCR 2024): 11.3

NAKUL TANWAR

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Nakul Tanwar completed his PhD in Biotechnology from Delhi Technological University (DTU) under the supervision of Prof. Yasha Hasija, following his MSc from the same institution. His doctoral thesis, "AN INTEGRATED APPROACH TOWARDS THE IDENTIFICATION OF NOVEL BIOMARKERS IN RESPIRATORY DISORDERS," focused on integrating computational and biological data to identify clinically meaningful biomarkers for conditions such as COPD, multiple sclerosis, and lung cancer. During his time at DTU, Nakul also served as a Teaching Assistant and was honoured with the Commendable Research Award at DTU's Research & Innovation Excellence Awards 2025, recognizing his contributions to the field. His research portfolio includes three two-author peer-reviewed publications, IEEE conference papers, a book chapter, and a design patent under review, alongside work in explainable AI (SHAP/LIME), multi-omics integration, and machine learning applied to respiratory disorders. Nakul is set to join the Center for AI and Computational Biology (CACB), Suzhou Institute of Systems Medicine (SISM), as a Postdoctoral Researcher under Prof. Yang Zhang, where he will continue advancing computational approaches.

PUBLICATION DETAILS

1. **Nakul Tanwar**, Yasha Hasija (2025). Explicating miRNA-mediated regulation of inflammatory pathways in COPD, MS, and lung cancer using explainable artificial intelligence: insights from peripheral blood profiles. *Integrative Biology, 17, zyaf020.* https://doi.org/10.1093/intbio/zyaf020. Impact Factor (JCR 2024): 1.4

NAVNEETA BHARADVAJA

Department of Bio-Technology



AWARD SUMMARY

Cumulative Citation Award (Silver)

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dr. Navneeta Bharadvaja is working as Associate Professor in the Department of Biotechnology, Delhi Technological University, Delhi. She is a recipient of "Commendable Research Award for Excellence in Research" at Delhi Technological University for year 2018, 2019, 2022, 2023, 2024. She has published more than 90 research and review papers, 68 conference papers and 37 book chapters. She has supervised 49 M.Tech students, 33 Msc students, 5 Ph.D students and currently 5 students are pursuing their research under her supervision. Her research interest include establishment of plant cultures to obtain pharmaceutically important compounds, Selection of elite accessions for high yield of Secondary Metabolites of industrial importance, Phyto-remediation, Algal Biotechnology and Insilico/Computational approach.

PUBLICATION DETAILS

1. Lakhan Kumar, Raksha Anand, Neha Nanda, **Navneeta Bharadvaja** (2025). Microbial carbon-capture cells for wastewater treatment: a step towards environmental sustainability. *Biomass Conversion and Biorefinery, 15(15), 21925–21946.* https://doi.org/10.1007/s13399-022-03509-7. Impact Factor (JCR 2024): 4.1
2. Lakhan Kumar, **Navneeta Bharadvaja** (2025). Biosynthesis, characterization, and evaluation of antibacterial and photocatalytic dye degradation activities of silver nanoparticles biosynthesized by Chlorella sorokiniana. *Biomass Conversion and Biorefinery, 15(15), 22043–22053.* https://doi.org/10.1007/s13399-022-03433-w. Impact Factor (JCR 2024): 4.1

PARUL PURI

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Dr Parul Puri is Assistant Professor in Department of Zoology, Maitreyi College, University of Delhi. She has nearly nineteen years of teaching experience in Zoology at University of Delhi. She is third rank holder in M.Phil. at Department of Zoology, University of Delhi. She has Masters from Department of Zoology, University of Delhi and is college topper in M.Sc. Zoology. She has been awarded Science Meritorious Award and Certificate of distinction for B.Sc. Honours Zoology by University of Delhi. Dr Parul Puri has done Ph.D. in Biotechnology from Delhi Technological University under supervision of Professor Jai Gopal Sharma and co-supervision of Professor Ram Singh. She has more than ten years of research experience. Her research interests encompasses Aquaculture nutrition with focus on feed formulation technology using alternative feed ingredients and sustainable aquaculture development. She has various research publications in Scopus listed (Cambridge University Press, De Gruyter Brill, Elsevier's publications), Web of Science - Clarivate listed high impact journals. She is also reviewer of various reputed journals.

PUBLICATION DETAILS

1. **Parul Puri**, Jaigopal Sharma, Rina Chakrabarti, Guddu Kumar, Avanish Kumar Shrivastav, Ram Singh (2025). Biochemical composition, amino acid and fatty acid profile changes of aquaculture feeds formulated from alternative ingredients: Long duration, storage temperature effects and ancillary FTIR confirmation. *Journal of Stored Products Research, 114, 102731.* https://doi.org/10.1016/j.jspr.2025.102731. Impact Factor (JCR 2024): 2.8

PRAKASH CHANDRA

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Dr. Prakash Chandra is working as an Assistant Professor at the Department of Biotechnology, DTU. He has completed his PhD in Biomimetic Nanoscience from Kongju National University, South Korea. During his PhD, he has worked in interdisciplinary areas such as Microfabrication, Tissue engineering, and Nanotechnology. He has been involved in several projects that include, developing Microfluidic devices, developed skin on a chip, and biochips for toxicological tests. He has completed his Master's from Jamia Hamdard, New Delhi. He has worked at the Institute of Nuclear Medicines & Allied Sciences (DRDO), New Delhi, and has industrial experience from Torrent Pharmaceuticals, Gujrat. He has 11 years of teaching and research experience and published several research articles in reputed journals and Book Chapters in premier publication houses. His research interests are in the fields of Nanobiotechnology, Tissue Engineering, Biosensors, Biomicrofluidics, and Toxicology.

PUBLICATION DETAILS

1. **Prakash Chandra**, Ravi Butola (2025). Tribological Behavior of Friction-Stir-Processed Nanocomposite Prepared Through Self-Assembled Monolayer Technique. *ECS Journal of Solid State Science and Technology, 14, 013009.* https://doi.org/10.1149/2162-8777/adaa9e. Impact Factor (JCR 2024): 2.2

PRAVIR KUMAR

Department of Bio-Technology



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Prof. Pravir Kumar is a distinguished academician and researcher with over 22 years of experience in teaching, administration and research, particularly in the areas of vascular biology, molecular neuroscience, and drug discovery. He currently serves as Professor in the Department of Biotechnology. He has previously held several key academic positions, including Dean of International Affairs, Dean of Alumni Affairs and Head of the Department of Biotechnology at DTU. His research expertise encompasses protein aggregation, molecular chaperones, and ubiquitin E3 ligases in neurodegenerative disorders, along with investigations into aberrant cell cycle re-entry in aging neurons and muscle tissues. Prof. Kumar has an impressive academic record, with over 250 publications in peer-reviewed journals and conference proceedings, more than 7700+ citations, an h-index of 41, and an i10-index of 83. He has supervised more than 20 Ph.D. scholars and mentored over 150 Master's students. Prof. Kumar has contributed significantly at the national level as well. He served as a National Expert Member for the Soldiers' Health and Drug Discovery (SHDD) program under the Defence Research and Development Organization (DRDO), Ministry of Defense, Government of India. He has been part of several prestigious panels, including the Fulbright Scholarship Selection Committee, Indian Council of Medical Research (ICMR), and the Ministry of Health. He has also undertaken confidential advisory roles for the Government of India. Additionally, Prof. Kumar serves on the editorial and reviewer boards of over 85 international journals, including those under the Nature Publishing Group and a sole editorial member from India in highly reputed journal Ageing Research Reviews (Elsevier).

PUBLICATION DETAILS

1. Rahul Tripathi, **Pravir Kumar** (2025). Identification of CXCR4 inhibitory activity in natural compounds using cheminformatics-guided machine learning algorithms. *Integrative Biology, 17, zyaf004.* https://doi.org/10.1093/intbio/zyaf004. Impact Factor (JCR 2024): 1.4
2. Neetu Rani, **Pravir Kumar** (2025). Exploring Natural Compounds as Potential CDK4 Inhibitors for Therapeutic Intervention in Neurodegenerative Diseases through Computational Analysis. *Molecular Biotechnology, 67, 3310-3329.* https://doi.org/10.1007/s12033-024-01258-8. Impact Factor (JCR 2024): 2.5
3. Somya Parashar, Aastha Kaushik, Rashmi K. Ambasta, **Pravir Kumar** (2025). E2 conjugating enzymes: A silent but crucial player in ubiquitin biology. *Ageing Research Reviews, 108, 102740.* https://doi.org/10.1016/j.arr.2025.102740. *Impact Factor (JCR 2024): 12.4*

PRIYA

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Dr Priya is currently teaching at Kalindi College, University of Delhi. She has completed her doctorate in Biotechnology from Delhi Technological University. Her area of specialization is microbial enzymes, especially phytase and its application in the feed industry. Phytase breaks the phytic acid molecule and liberates inorganic phosphate and myoinositol esters. It also releases other biomolecules attached to the phytate and helps to overcome the anti-nutritive effect. Phytase increases the bioavailability of nutrients and enhances the nutritional value of feed. It decreases the cost of livestock feed and load on phosphate reserves. Further, phytase is also involved in reducing the level of phosphorus and eutrophication in water bodies, thus mitigating environmental issues. Besides this, she has completed a postgraduate degree in Botany from Maharshi Dayanand University, Haryana. She has acquired knowledge about phytochemical analysis and the method used to determine the antibacterial and antioxidant properties of medicinal plants during her post-graduation. She received her graduation degree in Botany from Kalindi College, University of Delhi. She has also cleared the CSIR-UGC NET-JRF and GATE exams.

PUBLICATION DETAILS

1. **Priya**, Bijender Singh, Ravi Kumar Goswami, Jai Gopal Sharma, Bhoopander Giri (2025). Production of Phytase by Penicillium oxalicum in Solid State Fermentation Exhibiting Hydrolysis of Phytates and Haloperoxidase Activity. *Indian Journal of Microbiology, 65, 913-927.* https://doi.org/10.1007/s12088-025-01477-w. Impact Factor (JCR 2024): 1.6

SHATRUPA SINGH

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Shatrupa Singh is a PhD scholar in the Department of Biotechnology, working under the supervision of Prof. Jai Gopal Sharma and Dr. Deenan Santhiya. She completed her Bachelor's degree in Life Sciences from the University of Delhi and her Master's degree in Biotechnology from Delhi Technological University (DTU). Her research focuses on the sustainable recovery of metals from electronic waste using microbial bioprocesses, particularly studying microbemetal interactions, bioleaching, and bioflocculation for environmentally friendly e-waste management.

PUBLICATION DETAILS

1. **Shatrupa Singh**, Deenan Santhiya, Jai Gopal Sharma (2025). An overview of bioprocess based recovery and recycling techniques for battery waste management: Transitioning from environmental hazard to sustainability. *Minerals Engineering, 233, 109598.* https://doi.org/10.1016/j.mineng.2025.109598. Impact Factor (JCR 2024): 5.0

SHIVANGI

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

I am a passionate academic and research professional specializing in biotechnology and life sciences, with strong expertise in molecular biology, genomics, and experimental design. I completed my M.Sc. in Biotechnology from C.C.S. University and am currently awaiting my Ph.D. viva at Delhi Technological University. My research journey includes extensive work at CSIR IGIB, where I contributed to ICMR and CSIR funded projects, co authored several SCI indexed publications, and learned both theoretical and practical aspects of research. Recognized for my excellence through international conference awards and specialized training in genomics and molecular technologies, I am deeply committed to advancing scientific understanding through rigorous experimentation, collaborative learning, and innovative teaching.

PUBLICATION DETAILS

1. **Shivangi** Bora, Priyanka Rani Paul, Samiksha Kukal, Manish Kumar Mishra, Yasha Hasija, Ritushree Kukreti (2025). In-vitro Assessment of BCRP-Mediated Efflux of Antiseizure Medications in Human Blood-Brain Barrier Cell Model. *Journal of Biochemical and Molecular Toxicology, 39(11), e70570.* https://doi.org/10.1002/jbt.70570. Impact Factor (JCR 2024): 2.8

SMITA RASTOGI VERMA

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Dr. Smita Rastogi Verma has over 20 years of experience in teaching and research. She has been serving at Delhi Technological University since 2011. Before joining DTU, she worked at Integral University, Lucknow, where she held several academic and administrative responsibilities. Her areas of expertise include molecular biology and genetic engineering. Dr. Smita has consistently demonstrated a strong academic record, securing first rank in both her M.Sc. and M.Tech. degrees. During her Ph.D. at Lucknow University, she conducted research on lignin down-regulated transgenic plants with potential industrial applications and received a gold medal in recognition of her work. She also briefly worked as Research Associate at IISR, Lucknow, in a DBT-funded project on expressed sequence tag development. Her academic achievements are further reflected in her qualification in several nationallevel competitive examinations, including UGC-CSIR NET & JRF, CSIR-Direct, and GATE. She has authored a textbook on Genetic Engineering, published by Oxford University Press. She has around 60 publications in reputed journals and conference proceedings to her credit and has contributed 15 book chapters. She has also served as Principal Investigator of a UPCST-funded research project on lignindegrading microbes. She has supervised six Ph.D. scholars and nearly 60 postgraduate and undergraduate student projects. She is the recipient of the DTU Research Excellence Award for the past three consecutive years.

PUBLICATION DETAILS

1. Prajakta Tiwari, Shreesh Kumar Shukla, **Smita Rastogi Verma** (2025). Unraveling senescence in cancer: mechanistic complexities and therapeutic opportunities. *Molecular Biology Reports, 52(1), 521.* https://doi.org/10.1007/s11033-025-10630-z. Impact Factor (JCR 2024): 2.8

SWEETI

Department of Bio-Technology



AWARD SUMMARY

Commendable Research Award

Dr. Sweeti is a Ph.D. scholar in the Department of Biotechnology at Delhi Technological University (DTU), Delhi. She has completed her doctoral research under the supervision of Prof. Jai Gopal Sharma and the co-supervision of Dr. Rashmi Kataria. She is a recipient of CSIR-UGC NET JRF (2016). She completed her Bachelor of Science (B.Sc.) in 2008 and Master of Science (M.Sc.) in 2011 from MDU Rohtak, Haryana. She has completed a B.Ed. (2009) and an M.Ed. (2014) from MDU, Rohtak. She has also done PGDGC (2015). Her research lies in the field of biotechnology, specializing in bioprocess engineering. Her broader interests include zoology, environmental biotechnology and bioprocess.

PUBLICATION DETAILS

1. **Sweeti** Mann, Jai Gopal Sharma, Rashmi Kataria (2025). Optimization of acidic pre-treatment conditions using response surface methodology for ethanol production from Pistia stratiotes using Saccharomyces cerevisiae and Pichia stipitis. *Biomass Conversion and Biorefinery, 15, 4333-4348.* https://doi.org/10.1007/s13399-024-05394-8. Impact Factor (JCR 2024): 4.1

YASHA HASIJA

Department of Bio-Technology



AWARD SUMMARY

Innovation Award

Commendable Research Award

As a Professor and Head of the Department of Biotechnology at Delhi Technological University (DTU), Dr. Yasha Hasija has dedicated her career to advancing biotechnology through teaching, research, and leadership. She has published over 150 research articles and review papers in esteemed national and international journals, with her work being cited 2,091 times, holding an h-index of 21, and an i10-index of 42. Dr. Hasija serves on the Editorial Board of numerous international journals and has made significant contributions to Biotechnology and Bioinformatics as an author and editor of notable books. Her contributions have been recognized with several prestigious awards, including the Government of India's Department of Science and Technology Award for attending the Nobel Laureates' meeting in Lindau, Germany, and the Human Gene Nomenclature Award at the Human Genome Meeting in Montpellier, France. She has also received Research Excellence Awards at DTU for seven consecutive years (2018-2024). As a Project Investigator, Dr. Hasija leads several sponsored research projects funded by DST, CSIR, and DBT. She has delivered over 20 invited talks at prestigious institutions and actively supervises B.Tech., M.Tech., M.Sc., and Ph.D. students at DTU. Her research areas include genome informatics, the integration of genome-scale data for systems biology, and machine learning applications in healthcare.

PUBLICATION DETAILS

1. Atika Dogra, **Yasha Hasija** (2025). Unraveling prognostic biomarkers in oral squamous cell carcinoma: An approach based on explainable artificial intelligence. *Cancer Genetics, 296-297, 163-171.* https://doi.org/10.1016/j.cancergen.2025.07.010. Impact Factor (JCR 2024): 2.1

Department of

Civil Engineering

BALRAJ SINGH

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Mr. Balraj Singh received the B.Tech. degree in Civil Engineering from Haryana College of Technology and Management, Kaithal, India, and the M.Tech. degree in Civil Engineering from National Institute of Technology, Kurukshetra, India. He is currently pursuing the Ph.D. degree in Civil Engineering from Delhi Technological University, Delhi, India. He is presently working as an Assistant Professor in the Department of Civil Engineering at Panipat Institute of Engineering and Technology, Panipat, India, which is affiliated with Kurukshetra University. His research interests include river engineering, sediment transport, scour around hydraulic structures, computational fluid dynamics (CFD), and artificial intelligence applications in hydraulic engineering.

PUBLICATION DETAILS

1. **Balraj Singh**, Vijay K. Minocha (2025). Hybrid ensemble models for scour depth prediction around spur dikes. *Measurement, 256, 118277.* https://doi.org/10.1016/j.measurement.2025.118277. Impact Factor (JCR 2024): 5.6

DEEPAK SHARMA

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Deepak Sharma is a structural engineering researcher and practicing engineer with expertise in wind engineering, computational fluid dynamics (CFD), and the aerodynamic performance of low-rise structures. His research focuses on understanding wind–structure interaction, particularly the effects of roof geometry, building proximity, and interference on wind loads. He has contributed to both experimental and numerical investigations using boundary layer wind tunnel studies, CFD simulations, and data-driven techniques for predicting aerodynamic behaviour of buildings. Dr. Sharma has professional experience in structural design and standardization activities, having worked on the design and analysis of reinforced concrete structures including beams, columns, slabs, foundations, and retaining walls for institutional and residential projects. His work integrates practical engineering applications with advanced research methodologies. He has authored and co-authored several research publications in reputed international journals. His work has appeared in Journal of Vibration Engineering and Technologies, Wind and Structures, Sadhana – Academy Proceedings in Engineering Sciences, International Journal of Construction Management, and Journal of the Institution of Engineers (India), among others. These publications primarily address wind-induced interference effects, aerodynamic prediction of roof shapes, and computational modelling of wind loads on buildings. His research contributions aim to improve the understanding of wind effects on structures and support safer and more efficient structural design practices

PUBLICATION DETAILS

1. **Deepak Sharma**, Shilpa Pal, Ritu Raj (2025). Boundary-Layer Aerodynamic Prediction over Various Roof Shapes of Low-Rise Structures. *Journal of Vibration Engineering & Technologies, 13(7), 540.* https://doi.org/10.1007/s42417-025-02059-2. Impact Factor (JCR 2024): 2.4

DHARMENDRA KUMAR

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Dharmendra Kumar is a Civil Engineering academic and researcher specializing in Structural Engineering, currently pursuing his PhD at Delhi Technological University (DTU), Delhi. His doctoral research, titled "Wind-Induced Effects on Tall Buildings with Various Composite Plan Shaped Buildings," focuses on aerodynamic behavior and wind pressure distribution in high-rise structures, integrating advanced numerical simulations and machine-learning-based surrogate modelling. He holds an M.Tech in Structural Engineering from BRCM College of Engineering and Technology (2014–2016), where his thesis examined the compressive strength of concrete incorporating nano-silica, and a B.Tech in Civil Engineering from Bharat Institute of Technology, Meerut. With over seven years of teaching and academic experience, he has served as an Assistant Professor and a Teaching Assistant at reputed institutions, including DTU and RD Engineering College. His research contributions include SCI- and Scopus-indexed publications on wind engineering of high-rise buildings. He is GATE-qualified (2012, 2020) and proficient in ANSYS and STAAD. Pro, ETABS, and AutoCAD.

PUBLICATION DETAILS

1. **Dharmendra Kumar**, Pradeep K Goyal, Ritu Raj (2025). Effect of set-back ratio on wind pressure distribution of high-rise buildings with vazrious shapes. *Sādhanā, 50(4), 294.* https://doi.org/10.1007/s12046-025-02942-4. Impact Factor (JCR 2024): 1.4

HARISH PANGHAL

Department of Civil Engineering



AWARD SUMMARY

Premier Research Award

Commendable Research Award

Dr. Harish Panghal is a researcher in structural and sustainable construction materials, with a focus on circular economy approaches in concrete technology. He recently completed his PhD in Structural Engineering from Delhi Technological University (DTU), Delhi, where his research investigated the structural and durability performance of concrete incorporating construction and demolition (C&D) waste aggregates. His work aims to develop environmentally sustainable alternatives to conventional concrete materials while maintaining structural reliability and durability. Dr. Panghal has authored numerous research articles in reputed international SCI/SCIE-indexed journals, including Construction and Building Materials, Journal of Materials in Civil Engineering (ASCE), Structural Concrete, and Minerals Engineering. His research contributions primarily focus on recycled aggregate concrete, agro-waste-based supplementary cementitious materials, geopolymer systems, and data-driven approaches such as explainable machine learning for predicting concrete performance. Following his doctoral research at DTU, Dr. Panghal worked as a Postdoctoral Researcher at the Indian Institute of Technology (IIT) Indore and is currently pursuing postdoctoral research at Pontificia Universidad Católica de Chile. He has also been selected for the prestigious Marie Skłodowska-Curie Actions (MSCA) Postdoctoral Fellowship funded by the European Commission, under which he will conduct research at the University of Plymouth, United Kingdom.

PUBLICATION DETAILS

Premier Research Award

1. **Harish Panghal**, Awadhesh Kumar (2025). Eco-Friendly Concrete: A Dual Surface Modification Approach for Enhanced Mechanical Performance of Recycled Coarse Aggregates. *Journal of Materials in Civil Engineering, 37(4), 04025052.* https://doi.org/10.1061/jmcee7.mteng-19054. Impact Factor (JCR 2024): 3.0

Commendable Research Award

1. **Harish Panghal**, Awadhesh Kumar (2025). Enhancing durability and strength of concrete through an innovative abrasion and cement slurry treatment of recycled concrete aggregates. *Minerals Engineering, 220, 109109.* https://doi.org/10.1016/j.mineng.2024.109109. Impact Factor (JCR 2024): 5.0
2. **Harish Panghal**, Awadhesh Kumar (2025). Enhancing concrete durability and strength: An innovative approach integrating abrasion and cement slurry treatment for recycled coarse aggregates. *Structural Concrete, 26, 1455-1476.* https://doi.org/10.1002/suco.202400387. Impact Factor (JCR 2024): 3.3

JYOTI AGARWAL

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Ms. Jyoti Agarwal is currently pursuing her Ph.D. in Geotechnical Engineering at Delhi Technological University (DTU), New Delhi. She holds an M.Tech. in Soil Dynamics from IIT Roorkee, where she was awarded the DAAD Scholarship to conduct her dissertation research at the University of Stuttgart, Germany. She completed her B.Tech. in Civil Engineering from JSS Academy of Technical Education, Noida (UPTU). With over 10 years of professional experience, she has worked with leading consultancy organizations such as AIMIL Ltd. and TYPSA India as a Geotechnical Consultant and Design Engineer. Her expertise spans the geotechnical design and analysis of underground metro structures, deep excavations, foundations, slope stability, and building risk assessment for tunnelling projects. Her ongoing doctoral research focuses on tunnelling-induced ground deformations and their effects on nearby structures. She has published several research papers in reputed journals and international conferences. In recognition of her outstanding contributions to research, she was honoured with the Commendable Research Award for Excellence in Research (2025) by Delhi Technological University. Ms. Agarwal has also received multiple academic distinctions, including the Indian Service of Engineers Prize, and has consistently demonstrated excellence in both academic and professional domains.

PUBLICATION DETAILS

1. **Jyoti Agarwal**, Raju Sarkar (2025). Building risk assessment of existing buildings near a proposed tunnel. *Sādhanā, 50(3), 201.* https://doi.org/10.1007/s12046-025-02831-w. Impact Factor (JCR 2024): 1.4

KHYATI SAGGU

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Khyati Saggu is a PhD scholar in Civil Engineering at Delhi Technological University, with her work on “Bonding compatibility of materials for historical structures”. She holds an M.Tech from National Institute of Technology Karnataka (NITK) and a B.Tech from Deenbandhu Chhotu Ram University of Science and Technology (DCRUST), Murthal. She has a total of four years of professional experience, including one year in industry and three years of teaching in structural engineering subjects. Her research work focuses on sustainable construction materials, traditional lime mortars, and advanced structural analysis techniques, including the application of modern tools. Khyati has presented her research at national and international conferences and actively contributes to academic and technical initiatives. She is committed to advancing knowledge in civil engineering and promoting sustainable and innovative practices in the field.

PUBLICATION DETAILS

1. **Khyati Saggu**, Shilpa Pal, Nirendra Dev (2025). Exploring the role of organic additives in ancient lime mortars: Current knowledge and implications. *Journal of Cultural Heritage, 76, 317-326.* https://doi.org/10.1016/j.culher.2025.10.016. Impact Factor (JCR 2024): 3.3

KIRAN CHHOLAK

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

My name is Kiran Chholak, and I have completed my Ph.D. in Structural Engineering from Delhi Technological University (DTU), New Delhi. My doctoral research focused on the “Static and Dynamic Response of Railway Slab Track Systems,” where I studied the behavior of slab track structures under various loading conditions to enhance their safety, durability, and performance. My research work primarily involves analytical and numerical investigations of structural response under static and dynamic loads. I have published four research articles in reputed SCIE-indexed journals, demonstrating the quality and relevance of my research contributions in the field of structural and transportation engineering. I have strong expertise in finite element modeling using ANSYS, which has enabled me to simulate complex structural behavior and validate research outcomes effectively. My work reflects a strong integration of theoretical knowledge with advanced computational techniques. I am committed to advancing research in sustainable and resilient infrastructure systems. Receiving this research award would motivate me to further contribute to innovative and impactful developments in structural engineering.

PUBLICATION DETAILS

1. **Kiran Chholak**, Nirendra Dev (2025). Computational Study of Vibration Mitigation by Slab Mat Layer in a Precast High-Speed Slab Track System. *Journal of Vibration Engineering & Technologies, 13(1), 118.* https://doi.org/10.1007/s42417-025-01760-6. Impact Factor (JCR 2024): 2.4
2. **Kiran Chholak**, Nirendra Dev (2025). Dynamic Simulation of Vehicle–Track Interaction in Precast Slab Track Systems Using Moving Element Method. *Journal of Vibration Engineering & Technologies, 13(8), 574.* https://doi.org/10.1007/s42417-025-02096-x. Impact Factor (JCR 2024): 2.4

MOHIT AGGARWAL

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Mohit Aggarwal holds a Ph.D. in Civil Engineering from Delhi Technological University, where he conducted research on the topic “Assessment of Heavy Metal Pollution in the Ganga River from the Kanpur to Prayagraj Stretch, India”, under the supervision of Prof. S. Anbukumar and Prof. T. Vijaya Kumar. He is currently serving as an Assistant Professor at Noida International University located in Greater Noida. Dr. Aggarwal earned M.Tech in Civil Engineering from Motilal Nehru National Institute of Technology (MNNIT), Allahabad, and his B.Tech from Bharati Vidyapeeth Deemed University, Pune. With nearly nine years of teaching experience, he has previously worked as an Assistant Professor under the Government of India’s TEQIP project at Madhav Institute of Technology and Science, Gwalior, for three years. He has also held academic positions at Galgotias University, G.L. Bajaj Institute of Technology & Management, and Galgotias College of Engineering & Technology, all located in Greater Noida.

PUBLICATION DETAILS

1. **Mohit Aggarwal**, S. Anbukumar, T. Vijaya Kumar (2025). The Relationship Between pH, Organic Matter and Heavy Metal Concentrations in Surface Sediment of Ganga River, India. *Water Environment Research, 97(8), e70160.* https://doi.org/10.1002/wer.70160. Impact Factor (JCR 2024): 1.9

NERUSUPALLI DINESH KUMAR REDDY

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Nerusupalli Dinesh Kumar Reddy is a researcher and academician specializing in Geotechnical Engineering and Construction Technology and Management. He obtained his Ph.D. from Delhi Technological University (DTU), Delhi, with research focused on evaluating soil liquefaction potential using probabilistic and machine learning methods. His research interests include soil liquefaction prediction, machine learning applications in geotechnical engineering, construction safety analytics, and sustainable ground improvement techniques. Dr. Reddy has authored several peer-reviewed publications in reputed international journals, including Engineering Geology, Soil Dynamics and Earthquake Engineering, Advances in Engineering Software, and Multimedia Tools and Applications. His work primarily integrates artificial intelligence, optimization algorithms, and probabilistic modelling to improve the prediction of geotechnical hazards and enhance decision-making in civil engineering. He is currently serving as an Assistant Professor in the Department of Civil Engineering at ACE Engineering College, Hyderabad, where he is actively involved in teaching, research, and academic development. His professional experience also includes teaching positions and industry experience as a site engineer in infrastructure projects. Dr. Reddy's ongoing research focuses on AI-driven construction safety monitoring, sustainable soil stabilization using industrial waste materials, and advanced predictive modelling for geotechnical risk assessment and infrastructure resilience.

PUBLICATION DETAILS

1. **Nerusupalli Dinesh Kumar Reddy**, Diksha, Ashok Kumar Gupta, Anil Kumar Sahu (2025). Improving soil liquefaction prediction: A sophisticated ensemble classifier utilizing enhanced correlation features and a metaheuristic ant colony optimization approach. *Engineering Geology, 351, 108036.* https://doi.org/10.1016/j.enggeo.2025.108036. Impact Factor (JCR 2024): 8.4

PRATEEK ROSHAN

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Prateek Roshan is a passionate civil engineer and researcher dedicated to making a meaningful impact in the field of structural engineering. He currently serves as a Consultant in the Resilient Infrastructure Division at the National Institute of Disaster Management (NIDM), Delhi. His academic journey began at Gautam Buddha University, where he graduated as a Gold Medalist and class topper with an integrated B.Tech in Civil Engineering and an M.Tech in Structural Engineering. His commitment to advancing the field is evident in his active membership in professional bodies, such as the Institution of Engineers (India) and ASCE. He is a Chartered Engineer (India) and has served as a reviewer for leading journals, including Earthquake Engineering and Engineering Vibration (Springer) and Materials Today: Proceedings (Elsevier). Beyond research and teaching, Prateek has mentored students, organised technical events, and contributed to curriculum development. His goal is to inspire the next generation of engineers, foster innovation, and help build safer, smarter communities.

PUBLICATION DETAILS

1. **Prateek Roshan**, Shilpa Pal (2025). Evaluation of Seismic Performance of Hillside Step-Back RC Buildings Incorporating Soil-Structure Interaction. *Journal of Vibration Engineering & Technologies, 13(1), 83.* https://doi.org/10.1007/s42417-024-01643-2. Impact Factor (JCR 2024): 2.4

RAJU SARKAR

Department of Civil Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Dr. Raju Sarkar is a Professor in Department of Civil Engineering and Director of Center of Excellence in Disaster Risk Reduction (CoEDRR) at Delhi Technological University (DTU). Prior to joining back to his parent organization DTU, Dr. Raju was working as Professor in Department of Civil Engineering and Architecture, College of Science and Technology, Royal University of Bhutan, Bhutan under Ministry of External Affairs, Govt. of India deputation to Bhutan. During his tenure in Bhutan, he has established the research Center for Disaster Risk Reduction and Community Development Studies and also worked as Team Leader to start the new undergraduate programme – Engineering Geology in Royal University of Bhutan. Presently he is Chair, Commission on Education and Outreach and Co-Chair, Commission on Earthquake Hazard, Risk and Strong Ground Motion, International Association of Seismology and Physics of the Earth's Interior (IASPEI) – IUGG. Also, presently he is an Executive Member, Thematic Working Groups – a) Hill Infrastructure Resilience (HIR) and b) Earthquake and Landslide Early Warning System (ELEWS), South Asia Alliance of Disaster Research Institutes (SAADRI). He has vast experience to work in Hindu-Kush Himalayas region both at government and community level. He has published quite a good number of original research articles in peer reviewed journals, books, book chapters and proceedings of international societies and serving as an editorial member of several journals. Dr. Raju is collaborating in a number of research projects funded by ICSU, World Bank, GCRF-UK, EPSRC-UK, RAS-UK, DHI-RGoB, MoRTH-GoI. He has keen interest on Geotechnics for Natural Disaster Mitigation, Geohazards Risk Managements, Landslide, Seismology, Community Resilience Against Cataclysmic Events, Vulnerability and Risk Assessment and Disaster Management Education.

REEMA KASERA

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

I completed my graduation from Dr. A.P.J. Abdul Kalam Technical University and my postgraduation from Delhi Technological University (DTU). I am currently pursuing my Ph.D. under the supervision of Prof. Vijay K. Minocha. My research interests focus on monsoon dynamics, and the influence of large-scale ocean–atmospheric phenomena (ENSO), on regional rainfall patterns.

PUBLICATION DETAILS

1. **Reema Kasera**, Vijay K Minocha (2025). Impact of El Niño onset timing on Indian Monsoon Rainfall patterns. *Global and Planetary Change, 245, 104689.* https://doi.org/10.1016/j.gloplacha.2024.104689. Impact Factor (JCR 2024): 4.0

SHILPA PAL

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Shilpa Pal is Professor Department of Civil Engineering, and Director, Internal Quality Assurance Cell (IQAC), Delhi Technological University. She has done her B.Tech in Civil Engineering from Thapar Institute of Engineering & Technology (Patiala), M.Tech (Gold Medalist) in Structural Engineering from Punjab Engineering College (Chandigarh) and Ph.D. in Earthquake Engineering from IIT Roorkee, India. She had visited Norwegian Geotechnical Institute, Norway for a collaborative project under NORSAR collaboration. She has more than 55 papers to her credit in International and National Journals and more than 90 papers to her credit in International and National Conferences. She has guided 07 PhD, is presently guiding 06 Ph.D. students and has guided more than 142 M.Tech Dissertations & 122 B.Tech Projects. Her Area(s) of Interest include 2-D & 3-D Seismic Analysis of Dams and Seismic Slope Stability Analysis, Damage detection in buildings using SHM, Bio-fortified Concrete, Studies on compatible material for Heritage structures. She is the member of various Institutional Bodies namely IAStructE, ISET, IoE, ISCMS, ICI, SCRS. She is presently Honorary Secretary, IAStructE and Executive member of ICI Delhi Chapter. She is having a teaching experience of around two decades.

PUBLICATION DETAILS

1. Wesam Al Agha, **Shilpa Pal**, Nirendra Dev (2025). Electro-mechanical impedance-based equivalent structural health monitoring of steel fibre cementitious materials under long curing age effect. *Construction and Building Materials, 489, 142296.* https://doi.org/10.1016/j.conbuildmat.2025.142296. Impact Factor (JCR 2024): 8.0

SHIVANGI BHARADWAJ

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

I am a full-time Ph.D. research scholar in the Department of Civil Engineering at Delhi Technological University (DTU), where I have been an active member of the academic community since August 2021. My research lies in the domain of geo-environmental engineering, with a strong focus on soil and groundwater contamination, their transport mechanisms, and associated environmental impacts. My work is centered on understanding contaminant transport mechanisms and assessing their impact on subsurface environments. In recent years, I have been exploring the application of machine learning algorithms in civil engineering, particularly for tracing groundwater contaminants and supporting sustainable development. I aim to improve prediction accuracy and develop efficient tools for environmental monitoring and management. Through my research, I aim to bridge the gap between traditional civil engineering practices and emerging computational tools, contributing to innovative, sustainable solutions for environmental protection and resource management.

PUBLICATION DETAILS

1. **Shivangi Bharadwaj**, Ashok Kumar Gupta, Anil Kumar Sahu (2025). Tracing Groundwater Contaminants for Sustainable Development Through Machine Learning Algorithm. *CLEAN – Soil, Air, Water, 53(12), e70083.* https://doi.org/10.1002/clen.70083. Impact Factor (JCR 2024): 1.4

YAKSHANSH KUMAR

Department of Civil Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Yakshansh Kumar is currently an Assistant Professor at the School of Planning and Architecture, New Delhi. Previously, he served as a research scholar specializing in Pavement–Soil Dynamics and Piezoelectric Sensing Systems at Delhi Technological University. His doctoral research, "Dynamic Analysis of Pavement–Soil System with Piezo-Sensors," focuses on integrating experimental and finite element analyses to understand the vibration behavior and damage evolution in pavement–geomaterial systems. He has authored several peer-reviewed journal papers in high-impact Q1–Q2 international journals, including the International Journal of Non-Linear Mechanics, Journal of Vibration Engineering & Technologies, and Transportation Infrastructure Geotechnology. His works emphasize dynamic amplification, damping mechanisms, and energy harvesting using PVDFbased sensors. Dr. Kumar has also presented at multiple international conferences, including ASCE- CISSC 2025 and SIIOC 2024 (Best Technical Paper Award). His scholarly contributions earned him the Commendable Research Award (RIEA-2025) and a prestigious DTU PhD Research Fellowship. In addition to his research pursuits, he actively participates in academic leadership, organizing workshops (namely, ILRAPR-2025, ILEIRP-ATP), and serves as a reviewer for the Transportation Infrastructure Geotechnology (Springer). Beyond academics, he has demonstrated excellence in extracurricular activities, securing multiple medals in football, chess, and basketball at inter-college competitions.

PUBLICATION DETAILS

1. **Yakshansh Kumar**, Ashutosh Trivedi, Sanjay Kumar Shukla (2025). Impact of moving load vibrations on pavement damage supported by flow-controlled geomaterials. *International Journal of Non-Linear Mechanics, 172, 105045.* https://doi.org/10.1016/j.ijnonlinmec.2025.105045. Impact Factor (JCR 2024): 3.2



Department of

Computer Science & Engineering

ANIL SINGH PARIHAR

Department of Computer Science & Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Premier Research Award

Commendable Research Award

Dr. Anil Singh Parihar is a Professor in the Department of Computer Science & Engineering at Delhi Technological University, Delhi, India. He received his B.Tech. Degree in Electronics and Communication Engineering in 2005 from U. P. Technical University, Lucknow, India, M.E. degree in Electronics and Communication Engineering from Delhi College of Engineering, New Delhi, India in 2008, and Ph.D. degree in the area of applications of soft comping in image processing in 2016. He joined the Department of Information Technology at Delhi Technological University, Delhi, India as Assistant Professor in 2010. His research interest includes Image Processing, Pattern Recognition, Computer Vision, Soft Computing and Evolutionary Algorithms.

PUBLICATION DETAILS

Premier Research Award

1. Rewat Sachdeva, Raghav Gakhar, Sharad Awasthi, Kavinder Singh, Ashutosh Pandey, **Anil Singh Parihar** (2025). Uncertainty and Noise Aware Decision Making for Autonomous Vehicles: A Bayesian Approach. *IEEE Transactions on Vehicular Technology, 74, 378-389.* https://doi.org/10.1109/tvt.2024.3459632. Impact Factor (JCR 2024): 7.1

Commendable Research Award

1. Commendable Research Award Piyush Vaish, **Anil Singh Parihar** (2025). Deep decomposer and refiner for low-light image enhancement. *Signal, Image and Video Processing, 19(5), 391.* https://doi.org/10.1007/s11760-025-03914-1. Impact Factor (JCR 2024): 2.1

ANKUR

Department of Computer Science & Engineering



AWARD SUMMARY

Innovation Award

Commendable Research Award

Dr. Ankur is an Assistant Professor in the Department of Computer Science and Engineering at National Institute of Technology (NIT) Delhi. He also serves in key administrative roles, including Hostel Warden and Associate Dean (Planning & Development), contributing actively to institutional governance and student welfare. He received his Ph.D. from Delhi Technological University, Delhi, with research focused on privacy-preserving information hiding in encrypted images. His research interests include post-quantum cryptography, reversible data hiding in encrypted images (RDHEI), steganography, and secure intelligent systems. He has published in reputed venues such as IEEE, Elsevier, and Springer, and holds multiple granted patents in secure data processing. His current work explores the integration of AI and quantum-resistant cryptography for next-generation secure systems.

PUBLICATION DETAILS

1. **Ankur**, Rajeev Kumar, Ajay K. Sharma, Pallavi Ranjan (2025). High-capacity reversible data hiding in encrypted images based on difference image transfiguration. *Signal, Image and Video Processing, 19(5), 365.* https://doi.org/10.1007/s11760-025-03911-4. Impact Factor (JCR 2024): 2.1
2. **Ankur**, Rajeev Kumar, Ajay K. Sharma (2025). Reversible data hiding in encrypted image using bit-plane based label-map encoding with optimal block size. *Journal of Information Security and Applications, 90, 104005.* https://doi.org/10.1016/j.jisa.2025.104005. Impact Factor (JCR 2024): 3.7
3. **Ankur**, Rajeev Kumar, Pallavi Ranjan, Ki-Hyun Jung (2025). Leveraging rANS for synchronized high capacity reversible data hiding in encrypted image. *Expert Systems with Applications, 267, 126181.* https://doi.org/10.1016/j.eswa.2024.126181. Impact Factor (JCR 2024): 7.5

ANURAG GOEL

Department of Computer Science & Engineering



AWARD SUMMARY

Innovation Award

Commendable Research Award

Dr. Anurag Goel is currently working as an Assistant Professor in the Department of Computer Science and Engineering, Delhi Technological University, New Delhi since 2020. He has completed his Ph.D. from IIIT Delhi in 2023. He has completed M.Tech. (Gold medalist) in Computer Science from IIIT Delhi in 2017. He has received his B.Tech. degree in Computer Science and Engineering from SRM University in 2012. Before joining DTU, he has worked as System Engineer in TCS Noida for three years. He has also served as an Assistant Professor in the Department of CSE & IT, Jaypee Institute of Information Technology, Noida for more than two years. His area of interest lies in Deep Learning, Image Processing, Graph Networks and AI For Social Good. He has received several awards including Academic Excellence Awards, Research Excellence Awards, and Best Paper Awards. He is working as Co-PI in a MeITY project sanctioned with an amount of 3 Crores for two years. He has five granted patents, more than 10 SCIE indexed journal publications and more than 20 conference papers. He has presented research papers in international conferences including ICIP, EUSIPCO, ICONIP. He is a Senior IEEE member and lifetime member of CSI. He has worked as Peer Reviewer for various reputed conferences, SCIE journals and transactions. He has participated in Google Research India Graduate Symposium 2021 and Google Research Week 2022.

PUBLICATION DETAILS

1. Jyoti Maggu, **Anurag Goel**, Rajeev Kumar (2025). Label-consistent kernel transform learning-based sparse hashing for cross-modal retrieval. *Knowledge and Information Systems, 67, 6937-6967.* https://doi.org/10.1007/s10115-025-02419-0. Impact Factor (JCR 2024): 3.1

ARUNA BHAT

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Prof. Aruna Bhat has been an academician for over a decade and has taught various core and specialized undergraduate and post graduate courses like machine learning, artificial intelligence, information security, cyber forensics, data warehouse and data mining, business intelligence and pattern recognition. Her research interest is aligned with the applications of machine learning for healthcare data analytics, biometrics, online social media analytics and image processing. Her doctoral work was based on incorporating robustness in facial biometric systems. Her current research work is focused on online social media and cybercrime analytics, image enhancement, medical image processing and vernacular sign language assistance.

PUBLICATION DETAILS

1. Nishant Singh, **Aruna Bhat** (2025). Underwater image enhancement using contrast correction. *Expert Systems, 42(2), e13692.* https://doi.org/10.1111/exsy.13692. Impact Factor (JCR 2024): 2.3

BHANU PRATAP

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

My name is Bhanu Pratap. I completed my schooling in Science (Non-Medical) from Indira Ideal School, Janakpuri New Delhi. I pursued a Bachelor of Technology (B.Tech) in Computer Engineering from Delhi Technological University. My research paper titled “REHAS: Robust and Efficient Hyperelliptic Curve-Based Authentication Scheme for Internet of Drones” was published in Wiley journal in 2025. Currently, I am working as a Software Engineer at MAQ Software.

PUBLICATION DETAILS

1. **Bhanu Pratap**, Ayush Singh, Pawan Singh Mehra (2025). REHAS: Robust and Efficient Hyperelliptic Curve-Based Authentication Scheme for Internet of Drones. *Concurrency and Computation: Practice and Experience, 37(3), e8333.* https://doi.org/10.1002/cpe.8333. Impact Factor (JCR 2024): 1.5

DEEPAK KUMAR MISHRA

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Deepak Kumar Mishra is currently working as an Assistant Professor at the College of Vocational Studies, University of Delhi. He received his M.Tech in Computer Science and Engineering from Babasaheb Bhimrao Ambedkar University (Central University), Lucknow. He completed his Bachelor of Technology in Information Technology from Gautam Buddh Technical University, Lucknow. His areas of interest include Blockchain Technology, Artificial Intelligence, Database Systems, Compiler Design and Network Security.

PUBLICATION DETAILS

1. **Deepak Kumar Mishra**, Pawan Singh Mehra (2025). DiabeticChain: a novel blockchain approach for patient-centric diabetic data management. *The Journal of Supercomputing, 81(1), 166.* https://doi.org/10.1007/s11227-024-06589-6. Impact Factor (JCR 2024): 2.7

DIKSHA CHAWLA

Department of Computer Science & Engineering



AWARD SUMMARY

Innovation Award

Dr. Diksha Chawla is currently working as an assistant professor (Senior Grade) in Jaypee Institute of Information Technology, Noida, India. She completed her Ph.D. in the Department of Computer Science and Engineering at Delhi Technological University, New Delhi, India and her M.TECH in Information Technology from the Center for Development of Advanced Computing(CDAC), Noida, India. She received her B.Tech. in Information Technology from the Hindu College of Engineering, Haryana, India. She has authored many publications in International journals and conferences indexed in SCIE, Scopus, Web of Science. She has more than 14 years of teaching experience. Her research area includes the Internet of Things, Quantum Information and Computing, Wireless Sensor Networks, Blockchain and Image Processing.

DIKSHA RUHELA

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Diksha Ruhela received her B.Tech degree in Electronics and Communication Engineering and M.Tech degree in VLSI Design, followed by a Ph.D. in Computer Science and Engineering. Her research interests include reversible computing, optical logic circuits, low-power VLSI design, and emerging computing technologies. Her work focuses on developing energy-efficient and highspeed computational architectures for next-generation computing systems. During her doctoral research, Dr. Ruhela worked on the design and simulation of reversible logic gates and optical computing circuits aimed at reducing power dissipation and improving computational efficiency in modern digital systems. Her research contributions include the design of reversible multipliers, parity-preserving reversible circuits, and optical logic gates using Reflective Semiconductor Optical Amplifier (RSOA)-based switching techniques. She has also explored the application of Vedic mathematics in reversible multiplier architectures to enhance computational performance and optimize hardware resources. Dr. Ruhela has authored and co-authored 8 research publications, including 3 papers in peer-reviewed journals and 5 papers in international conferences. Her research interests include VLSI design, reversible logic circuits, optical computing, quantum-inspired computing, computer architecture, and advanced digital system design, with an emphasis on developing scalable and energy-efficient solutions for future computing technologies.

PUBLICATION DETAILS

1. **Diksha Ruhela**, Rajni Jindal (2025). Low-power computing with reversible logic: a modular approach to Vedic multiplication. *Journal of Computational Electronics, 24(5), 155.* https://doi.org/10.1007/s10825-025-02396-1. Impact Factor (JCR 2024): 2.5

FATIMA ZIYA

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Fatima Ziya received her B.Tech. degree in information technology in 2016 from Jamia Hamdard University, India, Delhi. She completed her Master of Technology from the Ambedkar Institute of Advanced Telecommunication and Research (now known as NSUT East Campus), India, Delhi, in 2019. She completed her PhD in 2026 from Delhi Technological University, New Delhi, India. She has 5+ years of teaching experience. Her research interests include machine learning, deep learning, and artificial intelligence.

PUBLICATION DETAILS

1. **Fatima Ziya**, Sanjay Kumar (2025). Enhancing Link Prediction Through Graph Attention Network and Linear Discriminant Analysis. *Expert Systems, 42(10), e70114.* https://doi.org/10.1111/exsy.70114. Impact Factor (JCR 2024): 2.3

HIMANSHU NANDANWAR

Department of Computer Science & Engineering



AWARD SUMMARY

Award for Submission of Ph.D. Thesis within Stipulated Period

Commendable Research Award

Dr. Himanshu Nandanwar is an Assistant Professor in the Department of Computer Science and Engineering at Motilal Nehru National Institute of Technology (MNNIT), Prayagraj, India. He is an active researcher in the areas of Artificial Intelligence, Cybersecurity, Internet of Things (IoT), Blockchain Technology, and Healthcare Informatics. His research focuses on developing secure and intelligent frameworks for emerging digital ecosystems, particularly in IoT-enabled healthcare systems and industrial IoT environments. Dr. Nandanwar has contributed significantly to the advancement of secure data communication and intelligent intrusion detection systems using machine learning and deep learning techniques. His research work integrates advanced cryptographic techniques, blockchain architectures, and optimization algorithms to address privacy, security, and reliability challenges in modern networked systems. He has authored and co-authored several research articles in reputed international journals and conferences and actively contributes to the academic community as a reviewer for various high-impact journals and conferences in the fields of artificial intelligence, cybersecurity, and data science. His scholarly interests also include federated learning, privacy-preserving computation, and AI-driven decision support systems. Dr. Nandanwar is committed to advancing interdisciplinary research and mentoring students in cuttingedge technologies, contributing to the development of innovative and secure computing solutions for real-world applications.

PUBLICATION DETAILS

1. **Himanshu Nandanwar**, Rahul Katarya (2025). Optimized intrusion detection and secure data management in IoT networks using GAO-Xgboost and ECC-integrated blockchain framework. *Knowledge and Information Systems, 67, 9531-9586.* https://doi.org/10.1007/s10115-025-02513-3. Impact Factor (JCR 2024): 3.1
2. **Himanshu Nandanwar**, Rahul Katarya (2025). Privacy-preserving data sharing in blockchain-enabled IoT healthcare management system. *The Computer Journal, 68, 1657-1681.* https://doi.org/10.1093/comjnl/bxaf065. Impact Factor (JCR 2024): 1.5

JATIN SHARMA

Department of Computer Science & Engineering



Dr. Jatin Sharma is currently serving as an Assistant Professor in the Department of Computer Engineering at the Faculty of Technology, University of Delhi. He completed his Ph.D. from Delhi Technological University in the Department of CSE. He received his M.Tech. in Computer Applications from Thapar Institute of Engineering and Technology, Patiala. He has completed his B.Tech. in Information Technology from JCDM College of Engineering, Sirsa. He has three years of Software Development experience at ITG Telematics Pvt Ltd, New Delhi. His research interests include the Internet of Things, Post- Quantum Cryptography, Unmanned Aerial Vehicles, Wireless ad hoc networks, Cryptography, and network security.

AWARD SUMMARY

Award for Submission of Ph.D. Thesis within Stipulated Period

Innovation Award

Commendable Research Award

PUBLICATION DETAILS

1. **Jatin Sharma**, Pawan Singh Mehra (2025). G2CAIUN: A novel Genus-2 curve-based authentication for secure data transmission in IoT-based UAV networks. *Physical Communication, 71, 102647.* https://doi.org/10.1016/j.phycom.2025.102647. Impact Factor (JCR 2024): 2.2

KAINAT KHAN

Department of Computer Science & Engineering



Kainat Khan is currently designated as a Ph.D research scholar in the Department of Computer Science, at Delhi Technological University, Delhi, India. She has completed her M.tech from the University School of Information, Communication, and Technology, Delhi. She has completed an undergraduate degree (B.Tech, Computer Science) from the Noida International University. She has published various research papers in SCIE/SCOPUS/IEEE/ELSEVIER-indexed International Conferences/Journals. Her research areas of interest include Artificial Intelligence, Healthcare, Data mining, Machine learning, Deep learning, and Natural Language Processing. She is currently doing her research on public health surveillance using machine learning techniques. She was also awarded the eminent “Best Paper Award” in 2024 at ICSSA, Penang, Malaysia.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. **Kainat Khan**, Rahul Katarya (2025). WS-BiTM: Integrating White Shark Optimization with Bi-LSTM for enhanced autism spectrum disorder diagnosis. *Journal of Neuroscience Methods, 413, 110319.* https://doi.org/10.1016/j.jneumeth.2024.110319. Impact Factor (JCR 2024): 2.3
2. **Kainat Khan**, Rahul Katarya (2025). MCBERT: A multi-modal framework for the diagnosis of autism spectrum disorder. *Biological Psychology, 194, 108976.* https://doi.org/10.1016/j.biopsycho.2024.108976. Impact Factor (JCR 2024): 2.9

KAVINDER SINGH

Department of Computer Science & Engineering



Dr. Kavinder Singh is an Assistant Professor in the Department of Computer Science & Engineering at Delhi Technological University, Delhi, India. He received his B.Tech. degree in Computer Science & Engineering from A. K. Technical University (Formerly UPTU) Lucknow, M.Tech. degree in Information systems from Delhi Technological University in 2018. He is pursuing his PhD from Delhi Technological University, New Delhi, India. He joined Department of Computer Science & Engineering at Delhi Technological University, New Delhi, India as Assistant Professor in 2020. His research interest includes Image Processing, Pattern Recognition, Object recognition and Computer Vision.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. Md Hasnat Hosen Arafat, **Kavinder Singh** (2025). Capturing spatiotemporal dependencies with competitive set attention for video summarization. *The Visual Computer, 41, 8219-8234.* https://doi.org/10.1007/s00371-025-03865-1. Impact Factor (JCR 2024): 2.9
2. Sudeep Kumar Acharjee, **Kavinder Singh**, Anil Singh Parihar (2025). QLight-Net: Quaternion based low light image enhancement network. *Journal of Visual Communication and Image Representation, 110, 104478.* https://doi.org/10.1016/j.jvcir.2025.104478. Impact Factor (JCR 2024): 3.1

KIRTI JAIN

Department of Computer Science & Engineering



Kirti Jain is a research scholar in the Computer Science and Engineering Department, DTU. She is also working as an Assistant Professor at Computer Science and Engineering Department, JIIT, Noida, UP. She received her M.Tech (Computer Science) from IIIT-Delhi. She possesses a work experience of around 10 years in academics and 1.5 years in industry. Her major areas of interest are Machine Learning / Deep Learning.

PUBLICATION DETAILS

1. **Kirti Jain**, Rajni Jindal (2025). Optimization-based noise filtering among user-centric tweets to improve predictions in recommendation system. *The Journal of Supercomputing, 81(8), 1005.* https://doi.org/10.1007/s11227-025-07457-7. Impact Factor (JCR 2024): 2.7

AWARD SUMMARY

Commendable Research Award

MINNI JAIN

Department of Computer Science & Engineering



Dr. Minni Jain is an Assistant Professor in the Department of Computer Science & Engineering at Delhi Technological University (DTU), Delhi. A Gold Medalist in M.Tech (IS) from GGSIPU, she holds a Ph.D. in Computer Science & Engineering from DTU with specialization in Natural Language Processing using Soft Computing.

PUBLICATION DETAILS

Premier Research Award

1. **Minni Jain**, Roopal Shakya (2025). LSI-EGT: Life Stressors Identification Using Context-Aware Embedding and Graph Transformer. *IEEE Transactions on Computational Social Systems, 12, 4809-4818.* https://doi.org/10.1109/tcss.2025.3573155. Impact Factor (JCR 2024): 4.9

Commendable Research Award

1. **Minni Jain**, Aditya Gupta, Aaryan Arora, Aayush Patel (2025). Ranking Influential Nodes in Social Networks Based on the Game of Thieves Algorithm. *Concurrency and Computation: Practice and Experience, 37(9-11), e70044.* https://doi.org/10.1002/cpe.70044. Impact Factor (JCR 2024): 1.5
2. **Minni Jain**, Rajni Jindal, Amita Jain (2025). DoSLex: automatic generation of all domain semantically rich sentiment lexicon. *Language Resources and Evaluation, 59, 1083-1110.* https://doi.org/10.1007/s10579-024-09753-9. Impact Factor (JCR 2024): 1.8

AWARD SUMMARY

Premier Research Award

Commendable Research Award

NEMALIKANTI ANAND

Department of Computer Science & Engineering



Nemalikanti Anand is currently working as an Assistant Professor in the Department of Computer Science and Engineering at Delhi Technological University, New Delhi, India. He received the Master of Technology in Network and Internet Engineering from Pondicherry Central University, Puducherry, India and Doctor of Philosophy in Computer and Information Sciences at University of Hyderabad, Hyderabad, Telangana, India. His research interests include Intrusion Detection System, Cryptography and Software-Defined Networks.

PUBLICATION DETAILS

1. **Anand Nemalikanti**, Sreenija Kaki, Rami Reddy Ambati, Raveendra Babu Ponnuru (2025). Enhancing intrusion detection: protocol-based security using a hybrid RIDGE classifier on InSDN, UNSW-NB15, BoT-IoT, and ToN-IoT datasets. *Cluster Computing, 28(10), 663.* https://doi.org/10.1007/s10586-025-05404-y. Impact Factor (JCR 2024): 4.1

AWARD SUMMARY

Commendable Research Award

NIKHIL SHARMA

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Nikhil Sharma received his B.Tech. degree from Guru Gobind Singh Indraprastha University, Delhi, India, in 2016, and his M.Tech. degree in Information Security from Ambedkar Institute of Advanced Communication Technologies & Research, Government of NCT of Delhi, India (currently Netaji Subhash University of Technology East Campus, Delhi, India), in 2018. He completed his Ph.D. in Computer Science and Engineering from Delhi Technological University, Delhi, India, in 2025. His research interests include Machine Learning, Deep Learning, Blockchain, Internet of Things, and Information Security.

PUBLICATION DETAILS

1. **Nikhil Sharma**, Prashant Giridhar Shambharkar (2025). Multi-attention DeepCRNN: an efficient and explainable intrusion detection framework for Internet of Medical Things environments. *Knowledge and Information Systems, 67, 5783-5849.* https://doi.org/10.1007/s10115-025-02402-9. Impact Factor (JCR 2024): 3.1
2. **Nikhil Sharma**, Prashant Giridhar Shambharkar (2025). Multi-layered security architecture for IoMT systems: integrating dynamic key management, decentralized storage, and dependable intrusion detection framework. *International Journal of Machine Learning and Cybernetics, 16, 6399-6446.* https://doi.org/10.1007/s13042-025-02628-7. Impact Factor (JCR 2024): 2.7
3. **Nikhil Sharma**, Prashant Giridhar Shambharkar (2025). Transforming security in internet of medical things with advanced deep learning-based intrusion detection frameworks. *Applied Soft Computing, 180, 113420.* https://doi.org/10.1016/j.asoc.2025.113420. Impact Factor (JCR 2024): 6.6

PALLAVI RANJAN

Department of Computer Science & Engineering



AWARD SUMMARY

Innovation Award

Dr. Pallavi Ranjan is the Discipline Lead at the School of IT, Murdoch University Dubai, and a researcher specializing in Artificial Intelligence, Computer Vision, Image Processing, and Hyperspectral Imaging. With over 16 years of academic experience across the Middle East and India, she is a visionary educator committed to mentoring and shaping future technology professionals. Dr. Ranjan holds a PhD in Artificial Intelligence and Machine Learning from Delhi Technological University. She earned her Senior Fellowship from the Higher Education Academy (UK) at Murdoch University and her Fellowship from Middlesex University, in recognition of her teaching excellence. A Gold Medallist in Computer Science Engineering, she completed her M.Tech in 2012 and B.Tech in 2010. Her research explores innovative AI algorithms for remote sensing, hyperspectral imaging, urban development, and disaster management, with over 30 publications, book chapters, and patents filed in India and Australia. An active author, editor, and reviewer, she contributes to leading journals including IEEE Transactions on Geoscience and Remote Sensing (TGRS) and Signal, Image and Video Processing.

PAWAN SINGH MEHRA

Department of Computer Science & Engineering



AWARD SUMMARY

Innovation Award

Award for Submission of Ph.D. Thesis within Stipulated Period

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dr PAWAN SINGH MEHRA (Senior Member, IEEE) is a Faculty member in the Department of CSE at Delhi Technological University, New Delhi. He received his Ph.D. in Computer Engineering and M.Tech (Hons) in Computer Science and Engineering. He completed a Bachelor of Engineering in Information Technology. He is among the Top 2% of scientists in the world, as listed by Scopus. Dr. Pawan received a research grant of Rs 3Cr from the Ministry of Electronics and Information Technology for carrying out research in Cyber Security and AI. He has approx. 15 years of Teaching and Research Experience. He has qualified for UGC-NET and GATE multiple times. He has authored more than 80 publications in International journals and conferences indexed in SCIE, Scopus, ESCI, and Web of Science. Currently, his H-index is more than 24, and his i-10 index is more than 42, with more than 2100 citations. He is an active reviewer in International Journals indexed in IEEE/ACM Transactions, SCIE & Scopus. He has been every year awarded with the Research Excellence Award since 2022. He is a senior member of IEEE and ACM, a fellow member of IETE, and a life member of CSI and ISTE. He has two Granted Patents in his profile in Quantum Computing. He has published two books on the Internet of Things and edited a book for GATE. His research interests include Quantum Computing and Cryptography, Blockchain, Cyber Security,Internet of Things, and Applications of Artificial Intelligence in Security.

PUBLICATION DETAILS

1. Deepak Kumar Mishra, **Pawan Singh Mehra** (2025). Exploring Blockchain-Based Patient-Centric Healthcare: A Comprehensive Review. *Concurrency and Computation: Practice and Experience, 37(12-14), e70124.* https://doi.org/10.1002/cpe.70124. Impact Factor (JCR 2024): 1.5

PUNEET KANSAL

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Puneet Kansal is India's Top Data Science Educator with over 13+ years of experience in academia and industry, Puneet plays a pivotal role in shaping the learning experiences of 50K+ industry professionals and college students through online and offline classes. With his vast experience he has developed a systematic teaching approach and makes hard concepts easy for learner. To continue his passion of research he is currently pursuing Ph.D. from Delhi Technological University in Deep Reinforcement learning.

PUBLICATION DETAILS

1. **Puneet Kansal**, Manoj Kumar, O. P. Verma (2025). Optimizing edge intelligence: a DRL-driven service migration approach with enhanced feedback in mobile edge computing. *The Journal of Supercomputing, 81(11), 1166.* https://doi.org/10.1007/s11227-025-07630-y. Impact Factor (JCR 2024): 2.7

POOJA MITHOO

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Pooja Mithoo received her Ph.D. in Computer Science from Delhi Technological University. She also completed her M.Tech from Delhi Technological University. Her research interests include Machine Learning and Artificial Intelligence. She has worked on developing intelligent models for data analysis and predictive systems. Her research focuses on applying advanced AI techniques to solve real-world problems.

PUBLICATION DETAILS

1. **Pooja Mithoo**, Manoj Kumar (2025). SDHO-KGNN: An Effective Knowledge-Enhanced Optimal Graph Neural Network Approach for Fraudulent Call Detection. *Transactions on Emerging Telecommunications Technologies, 36(4), e70101.* https://doi.org/10.1002/ett.70101. Impact Factor (JCR 2024): 2.5

PRASHANT GIRIDHAR SHAMBHARKAR

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Prashant Giridhar Shambharkar has obtained his Doctorate in Computer Engineering, Master Degree in Computer Science and Engineering from Samrat Ashok Technological Institute (Vidisha) and Bachelor Degree from Amravati University, Amravati (Maharashtra). He has having 20+ years of experience of teaching at Graduate and Post Graduated level. His area of interests includes Video Data Mining, Movie Trailer classification, Real Time Systems, Network Security, Internet of Things, Blockchain, Internet of Medical Things and allied Computer Science & Artificial Intelligence areas. He has taught many subjects including Programming Fundamentals, Software Engineering, Operating Systems, Real Time Systems, Computer Graphics, Principle of Programming Languages etc. He has publications in reputed International Journals and International Conferences. His work is published in some book chapters of Springer. He is presently working as Assistant Professor, Department of Computing Science & Engineering, Delhi Technological University, Delhi. He is Life Member of Computer Society of India (CSI), Member of Association of Computing Machinery (ACM) , Member of International Association of Engineers (IAENG), Hong Kong. Two Doctoral thesis guided. Also guided several M.Tech and B.Tech projects.

PUBLICATION DETAILS

1. Nikhil Sharma, **Prashant Giridhar Shambharkar** (2025). Towards secure healthcare: SA-GBO-ODBN model utilizing Blockchain and deep learning for data handling and diagnosis. *The Computer Journal, 68, 1386-1423.* https://doi.org/10.1093/comjnl/bxaf045. Impact Factor (JCR 2024): 1.5
2. Nikhil Sharma, **Prashant Giridhar Shambharkar** (2025). Blockchain-based framework for secure medical data sharing and disease diagnosis using optimized deep belief networks. *Cluster Computing, 28(16), 1029.* https://doi.org/10.1007/s10586-025-05706-1. Impact Factor (JCR 2024): 4.1
3. **Prashant Giridhar Shambharkar**, Nikhil Sharma (2025). XAI-driven multi-attention DeepCRNN for enhanced cyberattack detection in internet of medical things environments. *Pervasive and Mobile Computing, 114, 102123.* https://doi.org/10.1016/j.pmcj.2025.102123. Impact Factor (JCR 2024): 3.5

RAHUL KATARYA

Department of Computer Science & Engineering



AWARD SUMMARY

- Award for Submission of Ph.D. Thesis within Stipulated Period
- Yearly Citation Award (Early Research Impact and Influence Award)
- Commendable Research Award

Prof. Rahul Katarya is an internationally acclaimed academician, researcher, and thought leader in the field of Artificial Intelligence, Big Data Analytics, and Machine Learning. He is currently serving as Professor in the Department of Computer Science & Engineering at Delhi Technological University (formerly Delhi College of Engineering), Government of NCT of Delhi, India. A Senior Member of IEEE, Prof. Katarya is globally recognized for his pioneering contributions at the intersection of Artificial Intelligence, Data Science, and Societal Applications, and has been consistently ranked among the World's Top 2% Scientists by Stanford University, USA, for six consecutive years (2020–2025) in the domain of Artificial Intelligence and Image Processing. His research interests encompass Artificial Intelligence, Deep Learning, Blockchain, Internet of Things (IoT), Big Data Analytics, Human Analytics,Computational Intelligence, Recommender Systems, and Healthcare Informatics. Prof. Katarya has an impressive portfolio of over 200 research papers published in reputed SCIE/SCI-indexed international journals of Elsevier, Springer, Wiley, and ACM, with a Google Scholar h-index of 31 and over 4,300 citations. His research impact has been widely acknowledged for its quality and innovation, leading to two patents granted by the Government of India.

PUBLICATION DETAILS

1. Vinay Dubey, **Rahul Katarya** (2025). MoSWIN: Monkey Search Optimization and SWIN-based Flood Classification Architecture. *Water Resources Management, 39, 6275-6303.* https://doi.org/10.1007/s11269-025-04250-2. Impact Factor (JCR 2024): 4.7
2. Himanshu Nandanwar, **Rahul Katarya** (2025). A hybrid Blockchain-Based framework for securing intrusion detection systems in internet of things. *Cluster Computing, 28(7), 471.* https://doi.org/10.1007/s10586-025-05135-0. Impact Factor (JCR 2024): 4.1

RAJEEV KUMAR

Department of Computer Science & Engineering



AWARD SUMMARY

- Innovation Award
- Yearly Citation Award (Early Research Impact and Influence Award)
- Commendable Research Award

Dr. Rajeev Kumar earned his Ph.D. in Computer Engineering from the University of Delhi in 2017 and subsequently completed his Post-Doctoral research at Kyungil University. He is currently an Assistant Professor in the Department of Computer Science and Engineering at Delhi Technological University (DTU). Alongside his academic responsibilities, he serves as Assistant Director (IPR–Technology Transfer) in the Corporate Relations Office and leads the Blockchain Technology Research Lab at DTU, actively promoting innovation, intellectual property development, and industry collaboration. Dr. Kumar has received international recognition through the prestigious Brain Pool Fellowship (2018) and Brain Pool Plus Fellowship (2021–2024) awarded by the National Research Foundation of Korea for his contributions to multimedia security and AI-driven privacy systems. His research excellence has been consistently acknowledged at the institutional level as he received the Early Research Impact Award (Yearly Citation) and the Premier Research Excellence Award in 2025, the Innovation Research Excellence Award in 2024, and the Commendable Research Excellence Award for four consecutive years from 2022 to 2025. In recognition of securing the highest number of patents in 2025, he was featured in the DTU Table Calendar 2026. Dr. Kumar actively contributes to the global research community as an Associate Editor of Journal of Information Security and Applications, IET Biometrics, Journal of Electronic Imaging, and SN Computer Science (Springer). He also serves as a Review Editor for Frontiers in Signal Processing, is a member of the Editorial Board of Scientific Reports (Nature), and is part of the APSIPA Multimedia Security and Forensics Technical Committee. His research spans AI security, privacy-preserving neural networks, data poisoning and backdoor attack mitigation, steganography, reversible data hiding, multimedia forensics, blockchain-enabled security architectures, federated learning security, hyperspectral image analysis, and intelligent communication systems. Dr. Kumar has authored more than 100 research publications, including over 60 papers in SCI-indexed journals, reflecting sustained high-impact contributions in AI security and multimedia systems. He holds 12 granted Indian patents and more than 20 additional patent applications filed or published, demonstrating strong and consistent innovation in secure AI systems, adaptive authentication frameworks, privacy solutions, and intelligent defense mechanisms. His work effectively bridges foundational research, applied system development, and technology transfer.

PUBLICATION DETAILS

1. **Rajeev Kumar**, Roberto Caldelli, Wong KokSheik, Ki-Hyun Jung, David Megías (2025). Editorial: Advancements in multimedia security in the context of artificial intelligence and cloud computing. *Journal of Information Security and Applications, 89, 103964.* https://doi.org/10.1016/j.jisa.2025.103964. Impact Factor (JCR 2024):

RAJNI JINDAL

Department of Computer Science & Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Rajni Jindal is working as Professor at Computer Engineering Department, Delhi Technological University, Delhi, India. She also worked as HOD at Computer Engineering Department, Delhi Technological University, Delhi, India. She received her M.E. from Delhi College of Engineering. She completed her PhD (Computer Engineering) from Faculty of Technology, Delhi University. She also worked as Professor (IT) and Dean (Research & Collaboration) at IGDTUW for 3 years. She possesses a work experience of around 33 years in research and academics. She is working as Chairperson of Anti Ragging Committee since 2023, also Faculty Coordinator of SPIC MACAY at DTU Delhi. Her major areas of interest are Database Systems, Data Mining, Operating Systems, Compiler Design. She has authored around 200+ research papers and articles for various national and international journals/ conferences and also 5 books. She is a Senior Member of IEEE and Life Member of CSI.Throughout her career, she has been deeply committed to fostering innovation, mentoring students, and leading institutional growth through her dynamic leadership and expertise. She has been honored with several prestigious recognitions, including the Lifetime Achievement Award (Scientific Laurels Committee, 2025) and Distinguished Woman Researcher in Data Mining (Venus International Foundation, 2025).

RAVEENA YADAV

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

My name is Raveena Yadav. I have done my B.Tech from Indraprastha College for women, M.Tech from USICT From GGSIPU. Now I am pursuing PhD from DTU under Prof Vinod Kumar.

PUBLICATION DETAILS

1. **Raveena Yadav**, Vinod Kumar (2025). Congestion Control Scheme for Link Quality Improvement Using Bio-Inspired Fuzzy Inference System–Based CoAP in IoT. *International Journal of Communication Systems, 38(4), e6131.* https://doi.org/10.1002/dac.6131. Impact Factor (JCR 2024): 1.8

ROHIT BENIWAL

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Rohit Beniwal has received his Ph.D. (Computer Engineering) from the University of Delhi, India. He did his M.Tech and B.Tech degrees in Information Technology from Guru Gobind Singh Indraprastha University, Delhi. He is currently working as a University Assistant Professor in the Department of Computer Science & Engineering at the Delhi Technological University, Delhi, India. He is member of various technical societies such as ACM, IEEE, IEANG, Computer Society of India (CSI), and Indian Society of Technical Education (ISTE). He has many publications to his credit in various international and national journals/ conferences. His research interests are in the area of Data Analytics, Artificial Intelligence, and Wireless Sensor Network.

PUBLICATION DETAILS

1. **Rohit Beniwal**, Nitesh Kumar (2025). A Nature-Inspired Multi-Objective Green Routing Protocol for Iot-Enabled SDWSNs. *Transactions on Emerging Telecommunications Technologies, 36(6), e70199.* https://doi.org/10.1002/ett.70199. Impact Factor (JCR 2024): 2.5
2. **Rohit Beniwal**, Vinod Kumar, Vishal Sharma (2025). A Multi-cluster Security Framework for Healthcare IOT: The Synergy of Redundant Byzantine Fault Tolerance with Extensions and Coati-Based Network. *Transactions on Emerging Telecommunications Technologies, 36(3), e70098.* https://doi.org/10.1002/ett.70098. Impact Factor (JCR 2024): 2.5

SANJAY KUMAR

Department of Computer Science & Engineering



Dr. Sanjay Kumar is currently an Assistant Professor in the Department of Computer Science and Engineering, Delhi Technological University (DTU), New Delhi, India. He did Ph.D. degree in Computer Applications from Indian Institute of Technology (IIT) Delhi. He has completed MTech in Computer Application from Indian Institute of Technology (IIT) Delhi, India. Previously, he has worked with National Informatics Centre, Govt. of India as Scientist-B. His research interests include Machine Learning, AI, Social Network Analysis, NLP, and Design and Analysis of Algorithms. He has published numerous articles and proceeding papers in reputed journals and conferences. Notably, more than 40 of his papers have been published in top-rated SCI/SCIE journals, reflecting the quality and impact of his work. He is a recipient of "Commendable Research Award for Excellence in Research" awarded by DTU for last five consecutive years, from 2021 to 2025 According to the list released by the prestigious Stanford University and Elsevier, Dr Kumar is one among the top 2% of influential scientists and researchers globally for the years 2022,2023 and 2024 in the domain of "Artificial Intelligence and Image Processing".

AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Premier Research Award

Commendable Research Award

PUBLICATION DETAILS

Premier Research Award

1. Diksha Kurchaniya, **Sanjay Kumar** (2025). EAGLE: Enhanced Activity Recognition in Occluded Environments With Improved GAIN and Bi-LSTM. *IEEE Transactions on Computational Social Systems, 12, 3431-3441.* https://doi.org/10.1109/tcss.2025.3558970. Impact Factor (JCR 2024): 4.9

Commendable Research Award

1. Commendable Research Award Fatima Ziya, **Sanjay Kumar** (2025). MetaLP-DGI: Meta-Learning-Based Link Prediction With Centrality-Aware Deep Graph Infomax Embeddings. *Concurrency and Computation: Practice and Experience, 37(21-22), e70211.* https://doi.org/10.1002/cpe.70211. Impact Factor (JCR 2024): 1.5

SHAILENDER KUMAR

Department of Computer Science & Engineering



Dr. Shailender Kumar is currently serving as Professor and Head of the Computer Centre at Delhi Technological University (DTU), formerly Delhi College of Engineering, Bawana Road, Shahbad Daulatpur Village, New Delhi-110042. He is a distinguished academician and researcher with over 24 years of teaching experience. He has successfully supervised seven Ph.D. and six are under supervision. He has guided more than 50 M.Tech and 100 plus B.Tech Projects. His research contribution includes over 100 publications in reputed International Journals, International Conferences and Book Chapters/ Letters. He is frequently invited as expert speaker at several reputed universities and colleges, sharing his insights on emerging technologies. His research interest includes Data Mining, Big Data Analytics, Machine Learning, Fake News Detection, Information Security and others. He has been an expert member in various committees constituted by State Govt. and Central Govt. His dedication to research, education and innovation continues to shape the future of many young minds.

AWARD SUMMARY

Innovation Award

Commendable Research Award

PUBLICATION DETAILS

1. Sunny Arora, **Shailender Kumar**, Pardeep Kumar (2025). Forecasting blood glucose level using convolutional recurrent connection. *Sādhanā, 50(1), 16.* https://doi.org/10.1007/s12046-024-02657-y. Impact Factor (JCR 2024): 1.4
2. Ashish Kumari, **Shailender Kumar** (2025). Mitigating intrusion attacks in VANETs through reliable communication with graph-based deep learning approaches. *The Journal of Supercomputing, 81(15), 1467.* https://doi.org/10.1007/s11227-025-07945-w. Impact Factor (JCR 2024): 2.7

SHIKHA

Department of Computer Science & Engineering



Dr. Shikha received the B.Tech. degree in Information Technology from Guru Gobind Singh Indraprastha University (GGSIPU), Delhi, India, in 2014, and the M.Tech. degree in Computer Science and Engineering from Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi, India, in 2016. She received the Ph.D. degree in Computer Science and Engineering from Delhi Technological University (DTU), Delhi, India, in 2026. She is Assistant professor in SCSE department at Galgotias University, Greater Noida. Her research interests include human– computer interaction, physiological signal analysis, affective computing, and machine learning for healthcare applications. She has published several research papers in international conferences and well-reputed journals. Her research focuses on stress and anxiety detection using physiological signals with machine learning techniques.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. **Shikha**, Divyashikha Sethia, S. Indu (2025). *KRAFS-ANet: A novel framework for EEG-based stress classification using channel selection and optimized ensemble stacking.* International Journal of Machine Learning and Cybernetics, 16, 3359-3380. https://doi.org/10.1007/s13042-024-02455-2. Impact Factor (JCR 2024): 2.7
2. **Shikha**, Divyashikha Sethia, S Indu (2025). ST-CIRL: a reinforcement learning-based feature selection approach for enhanced anxiety classification. *Physiological Measurement, 46, 025009.* https://doi.org/10.1088/1361-6579/adb006. Impact Factor (JCR 2024): 2.7

SONAL GANDHI

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Sonal Gandhi earned her B.Tech degree in Information Technology in 2011 and her M.Tech degree in Computer Science in 2014 from Kurukshetra University, India. She recently completed her Doctor of Philosophy (Ph.D.) in Computer Science and Engineering from Delhi Technological University (DTU), Delhi. She has several years of academic experience in teaching and research in the field of Computer Science and Engineering. Throughout her academic career, she has been actively involved in teaching undergraduate and postgraduate courses, mentoring students, and contributing to research and academic development in engineering education. Her research interests primarily include Machine Learning, Information Security, and Reversible Data Hiding with applications in secure image processing and medical data protection. She has made significant contributions to the field through multiple research publications in reputable journals and conferences.

PUBLICATION DETAILS

1. **Sonal Gandhi**, Rajeev Kumar (2025). Survey of reversible data hiding: Statistics, current trends, and future outlook. *Computer Standards & Interfaces, 94, 104003.* https://doi.org/10.1016/j.csi.2025.104003. Impact Factor (JCR 2024): 3.1
2. **Sonal Gandhi**, Rajeev Kumar (2025). UMANeT: A two-stage interpolation-based reversible data hiding framework with attention-enhanced prediction. *Journal of Information Security and Applications, 94, 104217.* https://doi.org/10.1016/j.jisa.2025.104217. Impact Factor (JCR 2024): 3.7
3. **Sonal Gandhi**, Rajeev Kumar (2025). Reversible data hiding for color images using a novel self-attention based CNN predictor and error adjustment. *Signal, Image and Video Processing, 19(17), 1407.* https://doi.org/10.1007/s11760-025-04991-y. Impact Factor (JCR 2024): 2.1

VINAY DUBEY

Department of Computer Science & Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Vinay Dubey is a dedicated researcher in Computer Science with a strong academic and research background. He has completed his Ph.D. from the Department of Computer Science at Delhi Technological University, Delhi, India. He holds an M.Tech from the National Institute of Technology, Hamirpur (H.P.). He has published several research papers in reputed international conferences and journals indexed in SCIE, SCOPUS, IEEE, and ELSEVIER, demonstrating his active contribution to the research community. His research interests include Artificial Intelligence, Machine Learning, Deep Learning, Disaster Management, and Flood Prediction. His work primarily focuses on applying AI-based techniques to solve real-world problems. Currently, he is engaged in developing intelligent and data-driven approaches for disaster management, with a particular emphasis on improving flood prediction, preparedness, and mitigation strategies to enhance the effectiveness of disaster response systems.

PUBLICATION DETAILS

1. **Vinay Dubey**, Rahul Katarya (2025). FloodCNN-BiLSTM: Predicting flood events in urban environments. *Engineering Analysis with Boundary Elements, 177, 106277.* https://doi.org/10.1016/j.enganabound.2025.106277. Impact Factor (JCR 2024): 4.1
2. **Vinay Dubey**, Rahul Katarya (2025). Flood-FireNet: a novel flood image classification architecture using the adaptive firefly algorithm. *Signal, Image and Video Processing, 19(8), 620.* https://doi.org/10.1007/s11760-025-04235-z. Impact Factor (JCR 2024): 2.1

Delhi School of Management

ABHINAV GOEL

Delhi School of Management



Dr. Abhinav Goel has completed his Ph.D. at Delhi School of Management, Delhi Technological University (Formerly, Delhi College of Engineering), New Delhi, India in 2025. After completing his Bachelor's degree from the reputed Shri Ram College of Commerce (SRCC), Delhi University; he did his Masters in Management from the prestigious Indian Institute of Management, Indore (IIM Indore). With more than 20 years of industry experience in credit rating, vast and rich knowledge in sovereign rating, risk management, Dr. Goel has started his own financial and legal consultancy firm.

PUBLICATION DETAILS

1. Abhinav Goel, Archana Singh (2025). Impact of economic and socio-political risk factors on sovereign credit ratings. *Information Processing & Management, 62, 103943.* https://doi.org/10.1016/j.ipm.2024.103943. Impact Factor (JCR 2024): 6.9

AWARD SUMMARY

Commendable Research Award

CHANDAN SHARMA

Delhi School of Management



Dr. Chandan Sharma joined Delhi Technological University (DTU) as an Assistant Professor in February 2018. He completed his Post Graduate Diploma in Management (PGDM) from the Indian Institute of Management (IIM) Indore in 2008 and earned a Bachelor of Engineering in Mechanical Engineering from Delhi College of Engineering, University of Delhi, in 2006. He completed his PhD in 2024. His research interests lie in sustainable finance, risk management, earnings management and related areas. He has authored and several research papers published in reputed ABDC, SSCI, and Scopus-indexed journals, contributing to academic research in his field.

PUBLICATION DETAILS

1. Chandan Sharma, Priya Rani (2025). Dynamic Interconnectedness of ESG Indices and Crude Oil Prices: A Wavelet Coherence Approach in Asia-Pacific Markets. *Australian Economic Papers, 64, 289-298.* https://doi.org/10.1111/1467-8454.12392. Impact Factor (JCR 2024): 1.7

AWARD SUMMARY

Commendable Research Award

SAURABH AGRAWAL

Delhi School of Management



Dr Saurabh Agrawal is working as Professor and Head in Delhi School of Management. He works in the area of Supply Chain Management, Operations Analytics, Reverse Logistics, Industrial Engineering, and Sustainability.

AWARD SUMMARY

Cumulative Citation Award (Silver)

Yearly Citation Award (Early Research Impact and Influence Award)

Department of

Electronics and Communication Engineering

AAPURVA KAUL

Department of Electronics and Communication Engineering



AWARD SUMMARY

Premier Research Award

Commendable Research Award

Aapurva Kaul was born in Jammu and Kashmir, India, in 1991. She earned her B.Tech. degree in Electronics and Communication Engineering from Rajasthan Technical University, Rajasthan, in 2013. She completed her M.Tech. degree in VLSI Design from Maharishi Markandeshwar University, Haryana, in 2016, graduating as a Gold Medalist for her academic excellence. Currently, she is pursuing her Ph.D. in Electronics and Communication Engineering at Delhi Technological University, New Delhi (2025). Her research is dedicated to the advancement of nanowire-based devices, focusing on innovative design, modeling, and optimization techniques for next-generation nanoelectronic applications. She has published her work in reputed journals and conferences, contributing significantly to the evolving domain of semiconductor devices. Driven by curiosity and perseverance, Aapurva's academic journey reflects her commitment to excellence and innovation. She aspires to bridge fundamental research with practical applications, shaping energy-efficient and high-performance technologies for the future.

PUBLICATION DETAILS

Premier Research Award

1. **Aapurva Kaul**, Snehlata Yadav, Sonam Rewari, Deva Nand (2025). Analytical Modeling of Temperature-Resilient Cylindrical Gate Engineered Ferroelectric Nanowire Field-Effect Transistor. *IEEE Transactions on Dielectrics and Insulation, 32, 2674-2682.* https://doi.org/10.1109/tdei.2025.3538754. Impact Factor (JCR 2024): 3.1

Commendable Research Award

2. **Aapurva Kaul**, Sonam Rewari, Deva Nand (2025). Performance-Oriented Analytical Modelling of Channel Engineered-Macaroni Induced Gate All Around Field Effect Transistor for Off-State Leakage Mitigation. *ECS Journal of Solid State Science and Technology, 14, 103002.* https://doi.org/10.1149/2162-8777/ae09d8. Impact Factor (JCR 2024): 2.2

AKSHAY MANN

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Akshay Mann received the B.Tech. degree in Electronics and Communication Engineering from Uttar Pradesh Technical University (UPTU), Lucknow, India, in 2010, and the M.Tech. degree in Microelectronics from the Indian Institute of Information Technology (IIIT), Allahabad, India, in 2013. He is currently pursuing the Ph.D. degree in Electronics and Communication Engineering at Delhi Technological University (DTU), Delhi, India. He is presently an Assistant Professor with the Department of Electronics and Communication Engineering, DTU. He has authored and co-authored several research articles in reputed international journals and conference proceedings. He is an active member of the Vinod Dham Centre of Excellence for Semiconductors and Microelectronics, DTU. His current research interests include microelectronics, VLSI design, and mixed-signal integrated circuits, with a focus on high-performance data converters, low-power analog/mixed-signal circuits, and advanced comparator architectures for next-generation system-on-chip (SoC) applications.

PUBLICATION DETAILS

1. **Akshay Mann**, Neeta Pandey, Maneesha Gupta (2025). Energy efficient high speed dynamic comparators using shared charge logic and auxiliary inverter technique. *AEU - International Journal of Electronics and Communications, 195, 155787.* https://doi.org/10.1016/j.aeue.2025.155787. Impact Factor (JCR 2024): 3.2

AMIT KUMAR DWIVEDI

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Amit Kumar Dwivedi, B.Tech, M.E., PhD (Pursuing), working on Biomedical Signal Processing.

PUBLICATION DETAILS

1. **Amit Kumar Dwivedi**, Om Prakash Verma, Sachin Taran (2025). Joint Time–Frequency Wavelet Scattering Transform–Based Framework for Emotion Recognition Enhancement. *Signal, Image and Video Processing, 19(13), 1157.* https://doi.org/10.1007/s11760-025-04656-w. Impact Factor (JCR 2024): 2.1

ARJUN LAL KUMAWAT

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Arjun Lal Kumawat is pursuing a Ph.D. from Delhi Technological University, Delhi, in Electronics and Communication Engineering. He completed his M.Tech in Microelectronics and VLSI Design from Indian Institute of Science, Bengaluru, in 2018. He completed his B.Tech in Electronic Instrumentation and Control Engineering from University College of Engineering, RTU, Kota, in 2011. His area of interest is RF circuit design, VLSI circuit design.

PUBLICATION DETAILS

1. **Arjun Lal Kumawat**, Anukul Pandey, N. S. Raghava (2025). Design of a Low Noise Amplifier Based on Novel Monolayer Graphene FET. *Journal of Electronic Testing, 41, 5-14.* https://doi.org/10.1007/s10836-025-06158-6. Impact Factor (JCR 2024): 1.3

ASBAH MASIH

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Asbah Masih is a dedicated researcher in the field of Plasmonics. She completed her B.Tech from G.B. Pant University in 2019 and her M.Tech in ECE from USICT in 2021. She is currently pursuing her Ph.D. at Delhi Technological University under the guidance of Dr. Yashna Sharma, specializing in plasmonics. She has published three SCI-indexed journal papers, along with two book chapters and two conference papers. She is committed to advancing innovative solutions in nanophotonics and contributing to cutting-edge research in her field.

PUBLICATION DETAILS

1. **Asbah Masih**, Yashna Sharma (2025). Koch-curve fractal plasmonic nanoantennas on VO_2 for near-field plasmonic switching. *Physica Scripta, 100(5), 055518.* https://doi.org/10.1088/1402-4896/adc5af. Impact Factor (JCR 2024): 2.6

AYUSH DAHIYA

Department of Electronics and Communication Engineering



AWARD SUMMARY

Premier Research Award

Mr. Ayush, currently engaged as a research scholar in the Department of Electronics and Communication Engineering, is dedicated to advancing the field. He earned his Bachelor of Technology degree from the University Institute of Engineering and Technology, Maharshi Dayanand University, Rohtak in 2019. Subsequently, in 2021, he completed his Master of Technology from the National Institute of Technology, Delhi. His research endeavours concentrate on the enhancement of static random access memory cells, the development of peripherals such as sense amplifiers, and the exploration of beyond von Neumann inmemory computing architectures.

PUBLICATION DETAILS

1. **Ayush Dahiya**, Vansh Singhal, Poornima Mittal (2025). A Variation Tolerant Write Assist Read Decoupled 9T SRAM Cell for Low Voltage Application. *ACM Transactions on Design Automation of Electronic Systems, 30, 1-22.* https://doi.org/10.1145/3754451. Impact Factor (JCR 2024): 2.0

BARKHA SINGH

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Ms. Barkha Singh is a dedicated academic and researcher in the field of Quantum Computing and Intelligent Data Systems, recognized for her scholarly rigor and impactful contributions to emerging computational paradigms. She is going to earn her Ph.D., focusing on Quantum Computing for Image Processing and Big Data Analytics, where she developed novel hybrid quantum–classical architectures to enhance computational efficiency and data representation frameworks. Her research contributions are reflected in multiple peer-reviewed publications in reputed SCIE and ESCI-indexed journals, including leading international publishers such as Elsevier and Springer. Her work advances quantum image representation, quantum machine learning-based intrusion detection, and systematic comparative analyses of large-scale data classification models. She has also presented her research at national and international conferences, demonstrating academic engagement and scholarly dissemination at high-impact platforms. Ms. Singh's research integrates theoretical quantum mechanics principles with practical implementation using IBM Qiskit, thereby strengthening translational research in quantum-enabled artificial intelligence. In addition, she has patents

under process in quantum-driven big data analytics models, highlighting innovation and applied research excellence. Through sustained scholarly productivity, interdisciplinary research depth, and commitment to advancing quantum-based computational methodologies, Ms. Singh exemplifies academic excellence and research distinction within the university ecosystem.

PUBLICATION DETAILS

1. **Barkha Singh**, Sreedevi Indu, Sudipta Majumdar (2025). Comparison of machine learning algorithms for classification of Big Data sets. *Theoretical Computer Science, 1024, 114938.* https://doi.org/10.1016/j.tcs.2024.114938. Impact Factor (JCR 2024): 1.0
2. **Barkha Singh**, S. Indu, Sudipta Majumdar (2025). Comparative Analysis of Intrusion Detection Models Using Quantum Machine Learning Techniques. *Circuits, Systems, and Signal Processing, 44, 9592-9618.* https://doi.org/10.1007/s00034-025-03256-w. Impact Factor (JCR 2024): 2.0

BHARTI

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Ms. Bharti, currently engaged as a part-time research scholar in the Department of Electronics and Communication Engineering at Delhi Technological University (DTU). She earned her Bachelor of Engineering degree in Electronics and Communication Engineering from the Netaji Subhas Institute of Technology, University of Delhi, Delhi in 2017. Subsequently, in 2019, she completed her Master of Technology in VLSI Design and Embedded Systems, from DTU Delhi. Her research endeavours concentrate on semiconductor device simulation and modeling.

PUBLICATION DETAILS

1. **Bharti**, Poornima Mittal (2025). Analytical Modeling of Oppositely Doped Core-Shell Junctionless Nanowire Transistor Considering Fringe Capacitance and Dual Material Gate. *Advanced Theory and Simulations, 8(6), 2401148.* https://doi.org/10.1002/adts.202401148. Impact Factor (JCR 2024): 2.9

BHAWANAND JHA

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Bhawanand JHA received his Bachelor of Engineering in Electronics and Communications from RGPV Bhopal in 2009 and Master of Technology in Nano Science Technology from GGSIPU Dwarka, India in 2013. He has been pursuing his Ph.D. in VLSI Design from Delhi Technological University, India, since 2019, and has been working as an Assistant Professor at Bharati Vidyapeeth's College of Engineering, New Delhi, India, since 2014. His research interests include digital circuit design.

PUBLICATION DETAILS

1. **Bhawanand Jha**, Rajeshwari Pandey, Kirti Gupta (2025). High-performance noise-tolerant DTMOS Domino Schmitt trigger logic gate design. *Integration, 103, 102434.* https://doi.org/10.1016/j.vlsi.2025.102434. Impact Factor (JCR 2024): 2.5

CHANDRA SHEKHAR

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Mr. Chandra Shekhar is currently working as a part-time research scholar in the Department of Electronics and Communication Engineering at Delhi Technological University (DTU), Delhi. He completed his Bachelor of Technology in Electronics and Communication Engineering from Madan Mohan Malavia Engineering College, Gorakhpur, Uttar Pradesh, in 2009. Subsequently, he obtained his Master of Technology in VLSI Design and Embedded Systems from DTU in 2011. His research focuses on analog and VLSI circuit design and simulation.

PUBLICATION DETAILS

1. **Chandra Shekhar**, Neeta Pandey, Priyanka Jain (2025). Compact realization of MISO shadow filters based on DDCC. *AEU - International Journal of Electronics and Communications, 200, 155933.* https://doi.org/10.1016/j.aeue.2025.155933. Impact Factor (JCR 2024): 3.2

CHHAVI DHIMAN

Department of Electronics and Communication Engineering



Dr. Chhavi Dhiman has received the B.Tech. from Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi, India, in 2011, M.Tech. and Ph.D. from Delhi Technological University (DTU), Delhi, India, in 2014 and 2019 respectively. She is currently working as an Assistant Professor in the Department of Electronics and Communication Engineering, Delhi Technological University, Delhi, India. Her current research interest includes Machine Learning, Deep Learning, Pattern Recognition, Human Action Identification and Classification, Image Captioning, Pedestrian Intention Prediction, Sentiment Analysis, Face Anti-spoofing systems. Her H-index is 17, and has 1258 total research citation count in last five years. She has published 54 research papers in the reputed IEEE/ACM/Elsevier/Springer Transaction and Journals, and International Conferences. She is a reviewer of various Journals/Transactions of ACM, IEEE, IET, Springer and Elsevier. She has received the Premiere Research Award in year 2021, 2022 and 2025 for her outstanding research contributions by Delhi Technological University.

AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Premier Research Award

Commendable Research Award

PUBLICATION DETAILS

Premier Research Award

1. Neha Sharma, **Chhavi Dhiman**, Sreedevi Indu (2025). Cross-Modal Pedestrian Behavior Prediction: A Dual-Task Approach With Progressive Denoising Attention and CVAE. *IEEE Transactions on Intelligent Transportation Systems, 26, 17110-17120.* https://doi.org/10.1109/tits.2025.3578023. Impact Factor (JCR 2024): 8.4

Commendable Research Award

2. Gaurav Kumar, **Chhavi Dhiman** (2025). Decoding fake news fabrications and trends: A comprehensive survey. *Neurocomputing, 653, 131118.* https://doi.org/10.1016/j.neucom.2025.131118. Impact Factor (JCR 2024): 6.5
3. Dhruv Sharma, **Chhavi Dhiman**, Dinesh Kumar (2025). UnMA-CapSumT: Unified and Multi-Head attention-driven caption summarization transformer. *Journal of Visual Communication and Image Representation, 113, 104600.* https://doi.org/10.1016/j.jvcir.2025.104600. Impact Factor (JCR 2024): 3.1

DEEPIKA SIPAL

Department of Electronics and Communication Engineering



Deepika Sipal received M Tech and PhD degree in RF and Microwave engineering from Centre for Applied Research in Electronics (CARE), Indian Institute of Technology Delhi (IITD) in 2013, 2019 respectively. Currently she is working as Assistant Professor in Delhi Technological University Delhi. She is a senior member and member of the IEEE society and the IETE society respectively. She is also serving as reviewer of several reputed journal and conference papers. Her main research interests are MIMO antenna and array design, reconfigurable antenna and array design, RF and microwave integrated circuit design for different applications, Metamaterials, Machine learning, Body area network etc.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. Rohit Khandekar, **Deepika Sipal** (2025). Design and Analysis of mm-Wave MIMO Antenna With a UWB AMC. *IEEE Antennas and Wireless Propagation Letters, 24, 2944-2948.* https://doi.org/10.1109/lawp.2025.3577607. Impact Factor (JCR 2024): 4.8

DINESH KUMAR

Department of Electronics and Communication Engineering



Dinesh Kumar received his B.Tech. (ECE) and M.Tech (ECE) (Gold Medalist) form National Institute of Technology (NIT) Kurukshetra and received Ph.D. degree in the field of Biometrics (Face Recognition) from GGS Indraprastha University, Delhi. He has more than 33 years of teaching and research experience and currently working as Professor in the Electronics and Communication Engineering Department of Delhi Technological University, Delhi. He has research publications in National/International Journals and Conferences including IEEE, Elsevier, Springer, Wiley. His current research interests include image processing, biometrics, soft computing, clustering, biomedical imaging, machine learning, image captioning. He is on the panel of reviewers for IEEE, Elsevier and Springer journals/Transactions.

AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

DIVYA ARORA BHAYANA

Department of Electronics and Communication Engineering



AWARD SUMMARY

Premier Research Award

Divya Arora Bhayana is a researcher and academic enthusiast with a strong interest in artificial intelligence and computer vision. Her work focuses on object detection, image classification, and robotic applications, particularly in the area of hierarchical image classification and fuzzy logic– based room classification. She is currently involved in developing AI models and documenting research findings for scholarly publications and thesis work. Divya is passionate about learning advanced programming, especially Python for deep learning, and applying innovative techniques to solve real-world problems. Alongside her technical pursuits, she values creativity, education, and knowledge sharing, striving to contribute meaningfully to the field of intelligent systems.

PUBLICATION DETAILS

1. **Divya Arora Bhayana**, Om Prakash Verma (2025). Trans-Convo-Former Net for Hierarchical Prediction of Household Images. *ACM Transactions on Multimedia Computing, Communications, and Applications, 21, 1-21.* https://doi.org/10.1145/3757323. Impact Factor (JCR 2024): 6.0

DUSHYANT SINGH CHAUHAN

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Dushyant Singh Chauhan completed his Ph.D. degree in Department of Electronics & Communication Engineering, Delhi Technological University, Delhi, India. His research interest focuses on the modelling of underwater channel. He has received his Master's degree (M.E.)in Electronics from Punjab Engineering College, Chandigarh, India. He has received her Bachelor's degree (B.Tech.) in Electronics & Communication Engineering from Dr. APJ Abdul Kalam Technical University, Lucknow, India. He has qualified GATE & NET in 2018. He has received Commendable Research Award for excellence in 2022 from Research and Council Board of DTU, Delhi. He has published several SCI/ SCIE/Scopus Indexed Journals, book chapters and presented his research work in several national and international conferences.

PUBLICATION DETAILS

1. **Dushyant Singh Chauhan**, Gurjit Kaur, Dinesh Kumar (2025). Dual hop Malaga underwater wireless optical communication system with pointing errors for IoUT. *Photonic Network Communications, 49(1), 2.* https://doi.org/10.1007/s11107-024-01026-3. Impact Factor (JCR 2024): 1.7

HEMANSHI CHUGH

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Hemanshi Chugh is a full-time research scholar in the Department of Electronics and Communication Engineering at Delhi Technological University, India. Her research focuses on Nanocomputing and Quantum Dot Cellular Automata (QCA), with an emphasis on redefining paradigms in Quantum Computing and Low-Power VLSI. She has presented her work at national and international conferences and published several articles and book chapters in reputed journals. Prior to joining DTU, she worked as an Assistant Professor in the Department of Electronics and Communication Engineering at ADGITM (formerly NIEC), GGSIPU, for nearly four years. Hemanshi holds an M.Tech in VLSI Design from the Centre for Development of Advanced Computing (CDAC), Noida, securing 83.8%, and a B.Tech in Electronics and Communication Engineering from GTBIT, GGSIPU, with an aggregate of 81.4%. Passionate about research-driven teaching, she aims to inspire innovation and foster academic excellence in the field of emerging technologies.

PUBLICATION DETAILS

1. **Hemanshi Chugh**, Sonal Singh (2025). An energy and cost-effective realization of high-performance single-layer vedic multiplier in quantum-dot cellular automata. *Physica Scripta, 100, 065112.* https://doi.org/10.1088/1402-4896/add2ae. Impact Factor (JCR 2024): 2.6

ISHAAN SHARMA

Department of Electronics and Communication Engineering



AWARD SUMMARY

Premier Research Award

Ishaan Sharma is a wireless communications researcher and engineer from India who has completed his PhD in the field of advanced communication systems. His research focuses on intelligent optimization techniques for next-generation wireless networks, particularly Reconfigurable Intelligent Surfaces (RIS) and Multi-Armed Bandit (MAB) algorithms. He has developed learning-driven approaches to maximize signal quality and system efficiency, with contributions spanning algorithm design, performance analysis, and hardware-oriented implementation. His work emphasizes practical, compute-efficient solutions that bridge the gap between theoretical models and real-world deployment.

PUBLICATION DETAILS

1. **Ishaan Sharma**, Sumit J. Darak, Rohit Kumar (2025). High-Speed Compute-Efficient Bandit Learning for Many Arms. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 33, 2099-2103.* https://doi.org/10.1109/tvlsi.2025.3573924. Impact Factor (JCR 2024): 3.1

KAVITA BHATT

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Kavita Bhatt is currently working as an Assistant Professor at BVOCE, Delhi. She obtained her Ph.D. from DTU in the field of Electronics and Communication Engineering. She holds a B. Tech degree in Electronics and Communication Engineering from Uttar Pradesh Technical University and an M. Tech in Signal Processing Engineering from Guru Gobind Singh Indraprastha University. Her research interests include Biomedical Signal Processing, Machine Learning, Deep Learning, and Artificial Intelligence in healthcare.

PUBLICATION DETAILS

1. **Kavita Bhatt**, N. Jayanthi, Manjeet Kumar (2025). FHESA: fourier decomposition and hilbert transform based EEG signal analysis for Alzheimer's disease detection. *Physical and Engineering Sciences in Medicine, 48, 2043-2058.* https://doi.org/10.1007/s13246-025-01644-9. Impact Factor (JCR 2024): 2.0

KRITI SUNEJA

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Kriti Suneja is an Assistant Professor in Dept. of Electronics and Communication Engineering, DTU. She has more than eight years of teaching experience. Her specializations include Digital Design and Non- linear dynamic systems.

PUBLICATION DETAILS

1. **Kriti Suneja**, Arpit Garg, Agam Sharma, Arpit Yash (2025). A novel Three-Key mixing text encryption based on A new 3-D chaotic system. *Analog Integrated Circuits and Signal Processing, 125(3), 48.* https://doi.org/10.1007/s10470-025-02527-5. Impact Factor (JCR 2024): 1.4

M. GANESH

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

M. Ganesh is an accomplished Assistant Professor at Delhi Technological University, New Delhi, with over 8 years of teaching and 2 years of industry experience. He holds a Ph.D. (2021–2025) in Electronics and Communication Engineering from DTU, an M.Tech from NIT Rourkela (with a branch topper medal), and a B.Tech from SVCET, Chittoor, Andhra Pradesh. His expertise lies in Antennas, RF, & Microwave Engineering, with a strong research focus on reconfigurable antennas for IoT and Sub-6 GHz wireless applications. He has published in SCI/Scopus-indexed journals and IEEE conferences. He has achieved multiple awards, including being the best presenter at the ICED 2024 conference organized by the University of Malaysia Perlis, Malaysia, and Academic Excellence at NIT Rourkela. He has significant experience with tools like HFSS, ADS, and MATLAB. He actively contributes to scholarly peer review and is a member of IEEE and WAMS. His current research includes advancing AI integrated smart antennas for 6G, ex

PUBLICATION DETAILS

1. **M. Ganesh**, N. S. Raghava, Thennarasan Sabapathy, Yashna Sharma (2025). A Gain-Enhanced Multiband Frequency and Pattern Reconfigurable Antenna for Wi-Fi 6E and 5G New Radio Wireless Standards. *International Journal of Communication Systems, 38(4), e6011.* https://doi.org/10.1002/dac.6011. Impact Factor (JCR 2024): 1.8

MANJEET KUMAR

Department of Electronics and Communication Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Premier Research Award

Commendable Research Award

Dr. Manjeet Kumar received his B.Tech. degree in Electronics and Telecommunication Engineering from Kurukshetra University, Kurukshetra, India, in 2008, and his M.Tech. degree in Signal Processing from Guru Gobind Singh Indraprastha University, Delhi, India, in 2011. He obtained his Ph.D. degree in Electronics and Communication Engineering from the Netaji Subhas Institute of Technology (NSIT), Delhi, affiliated with the University of Delhi, India, in 2017. He served as an Assistant Professor in the Department of Electronics and Communication Engineering at Bennett University, Greater Noida, from June 2016 to July 2020. Since July 2020, he has been working as an Assistant Professor in the Department of Electronics and Communication Engineering at Delhi Technological University (DTU), Delhi. Dr. Kumar has authored more than 75 research articles and 52 conference papers/book chapters published in reputed international journals and conferences, including those by IEEE, Springer, Elsevier, Taylor & Francis, and World Scientific. He has authored a book titled "High Performance and Power Efficient Electrocardiogram Detectors" published by Springer, and edited a book titled "Data Analytics for Intelligent Systems: Techniques and Solutions" published by IOP Publishing. He has two granted Indian patents and four Indian patents under application. He actively contributes to the research community as a reviewer for several international journals, including those published by IEEE, Springer, Elsevier, Taylor & Francis, and World Scientific. He also served as a Guest Editor for the Special Issue titled "Artificial Intelligence-Based Techniques for Diagnosis of Cardiovascular Arrhythmia Diseases" in the journal Diagnostics (MDPI). His research interests include signal processing, biomedical signal processing, image processing, fractional systems, optimization algorithms, nature-inspired algorithms, artificial intelligence in healthcare, wavelet transform-based signal analysis, wavelet filter banks, adaptive filtering, linear and nonlinear system identification, healthcare assistive technologies, low-power biomedical circuit design, ECG detection and classification, PPG signal analysis, heart rate estimation, blood pressure estimation, non-stationary signal analysis, Internet of Medical Things (IoMT), and analog circuit design. Dr. Kumar has received several prestigious recognitions for his research contributions. He was awarded the "Premier Research Award" in 2022 and the "Commendable Research Award" in 2021, 2022, 2023, and 2024 by Delhi Technological University, Delhi. He also received the "Yearly Citation Award: Early Research Impact and Influence Award" for the years 2023 and 2024, and the "Cumulative Citation Award (Silver)" in 2024 from Delhi Technological University. His research work has received significant academic impact with 2564 citations, an h-index of 28, and an i10-index of 58. Dr. Kumar has been included in the prestigious list of the World's Top Scientists prepared by Stanford University. He was ranked 886 in the Networking and Telecommunication field in the Top 2% Scientists Worldwide list (2021) released by Stanford University, USA. He was also ranked 3527 out of 546,033 researchers in the Artificial Intelligence and Image Processing field in the Top 2% Scientists list (2022) and 6598 in the same field in the 2023 ranking. Additionally, he was featured in the Top Scientists Career Ranking 2024 released by Stanford University, USA.

PUBLICATION DETAILS

Premier Research Award

1. Pankaj, Pratibha Maan, **Manjeet Kumar** (2025). Development of an STM32-Based Noninvasive Hemoglobin Measurement System Using Multiwavelength Photoplethysmography. *IEEE Transactions on Instrumentation and Measurement, 74, 1-12.* https://doi.org/10.1109/tim.2025.3588938. Impact Factor (JCR 2024): 5.9

Commendable Research Award

1. Pankaj, Pratibha Maan, **Manjeet Kumar**, Ashish Kumar, Rama Komaragiri (2025). Integrated wearable PPG: a multi-vital sign monitoring based on group sparse mode decomposition framework in remote health care using PPG signal. *Physical and Engineering Sciences in Medicine, 48, 685-702.* https://doi.org/10.1007/s13246-025-01534-0. Impact Factor (JCR 2024): 2.0
2. Pankaj, Pratibha Maan, **Manjeet Kumar**, Ashish Kumar, Rama Komaragiri (2025). A cascaded approach of group sparse mode decomposition and deep neural network for heart rate estimation using reference signal-less PPG signal. *Measurement, 246, 116546.* https://doi.org/10.1016/j.measurement.2024.116546. Impact Factor (JCR 2024): 5.6

MOHIT TYAGI

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Mr. Mohit Tyagi is a Part time Ph.D. research scholar in the Department of Electronics and Communication Engineering at Delhi Technological University under the supervision of Prof. Poornima Mittal. His research interests include low power circuit design and design of ultralow power analog to digital converters. He has completed his B. Tech degree as honors from Uttar Pradesh Technical University, Lucknow, Uttar Pradesh in 2011 and completed M.Tech in 2014 from NIT Kurukshetra, Haryana in VLSI design.

PUBLICATION DETAILS

1. **Mohit Tyagi**, Poornima Mittal, Parvin Kumar (2025). Design of a low-power dynamic latched comparator for biomedical applications. *Physica Scripta, 100, 016103.* https://doi.org/10.1088/1402-4896/ad9b55. Impact Factor (JCR 2024): 2.6)

N. JAYANTHI

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Dr. N.Jayanthi is an Associate Professor in the department of Electronics and Communication Engineering at Delhi Technological University. She has done B.E. in Electronics and Communication Engineering from Bharathidasan University, Trichy, Tamil Nadu and M. Tech.in Communication Systems from National Institute of Technology, Trichy. She has completed her Ph.D. thesis titled "Analysis of Digitized Historical Inscriptions and Manuscripts at Delhi Technological University. Her area of research interest includes image processing, Pattern recognition, machine learning and Communication systems. She has published a number of technical papers in International Conferences and reputed Journals. She has completed two DST sponsored projects titled "Development of OGC standards-based sensor network for intelligent traffic management" and"Development of frame work for imaging, restoring and archiving inscription and manuscript" in the capacity of co-principal investigator. Currently she is working on the Project titled "Digitizing manuscripts at the Indira Gandhi National Centre for the arts and facilitating online access to digitized documents ", in collaboration with iHub Drishti Foundation, IIT Jodhpur. She is secretary of IEEE intelligent transportation systems society , Delhi chapter.

PUBLICATION DETAILS

1. Rekha Rani, **N. Jayanthi**, Anup K. Mandpura (2025). Optimal Power Allocation and CAR in Multiuser Dual-Hop RF/FSO DF Relaying Systems With CDF-Based Scheduling. *International Journal of Communication Systems, 38(16), e70280.* https://doi.org/10.1002/dac.70280. Impact Factor (JCR 2024): 1.8

NEETA PANDEY

Department of Electronics and Communication Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Prof. Neeta Pandey is a Professor and Head of the Department (HoD) of the Department of Electronics and Communication Engineering, Delhi Technological University, Delhi. Neeta Pandey received the M.E. degree in microelectronics from Birla Institute of Technology and Sciences, Pilani, India and the Ph.D. degree from Guru Gobind Singh Indraprastha University, New Delhi, India. She has served in Central Electronics Engineering Research Institute, Pilani; Indian Institute of Technology, New Delhi; Priyadarshini College of Computer Science, Noida; and Bharati Vidyapeeth's College of Engineering, New Delhi in various capacities. She is currently a Professor with the Electronics and Communication Engineering Department, Delhi Technological University, New Delhi. She has authored more than 200 technical papers in reputed national and international conferences and journals. Her current research interests include analog and digital VLSI design. Dr. Pandey is a Member of WIE Affinity Group, a Life Member of ISTE and a Senior Member of IEEE.

PUBLICATION DETAILS

1. Lokesh Soni, **Neeta Pandey** (2025). A robust, low power and high speed radiation hardened 12T SRAM cell for space applications. *Microelectronics Journal, 156, 106502.* https://doi.org/10.1016/j.mejo.2024.106502. Impact Factor (JCR 2024): 2.3

NEHA GARG

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

She has completed PHd from Delhi technological University. Now She is working as an Assistant Professor in Ajay Kumar Garg Engineering College.

PUBLICATION DETAILS

1. **Neha Garg**, Mahipal Singh Choudhry, Rajesh M Bodade (2025). Alzheimer's disease detection through wavelet-based shifted elliptical local binary pattern. *Biomedical Signal Processing and Control, 100, 107067.* https://doi.org/10.1016/j.bspc.2024.107067. Impact Factor (JCR 2024): 4.9

POORNIMA MITTAL

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Prof. Poornima Mittal (B.Tech, M.Tech (Honors), Ph.D.) Senior Member IEEE has published 225+ research papers in international journals and conferences of repute. Her research interest includes Design/ Modeling of Flexible Electronic Devices, Memory, Low Power VLSI Circuits and biomedical sensor applications. She is the awardee of three Indian Patents in the field of Low Power VLSI, Electric Switch and Flexible Electronics. Also, she has published a Text Book on flexible electronics by CRC Press, Taylor & Francis in 2016. She is the reviewer of IEEE transactions and other reputed international journals. She has received the research awards in 2012 and 2015 for her dedicated research at Graphic Era University, Dehradun. Also, she has received Premium and Commendable Research Awards in 2019, 2020, 2021, 2022, 2023, 2024, 2025 and 2026 at Delhi Technological University (DTU). She is the recipient of Innovator of the Year Award at Uttarakhand State Science and Technology Congress in 2016. She has delivered many expert talks and chaired sessions in the reputed international conferences. She is the life member of many professional societies. She has 20+ years of academic and research experience. Presently, she is working as Professor in the Department of ECE, DTU, Delhi, India.

PUBLICATION DETAILS

1. Anshumat Dinesh, Yogita Chopra, **Poornima Mittal** (2025). An 8T SRAM cell for high-speed sub-threshold operation with dynamic body biasing. *Integration, 104, 102480.* https://doi.org/10.1016/j.vlsi.2025.102480. Impact Factor (JCR 2024): 2.5
2. Bhawna Rawat, **Poornima Mittal** (2025). A hybrid SRAM array architecture using single port and dual port 7T SRAM cells for low power applications. *Physica Scripta, 100, 105013.* https://doi.org/10.1088/1402-4896/ae0c60. Impact Factor (JCR 2024): 2.6
3. Bharti, **Poornima Mittal** (2025). Core–Shell Incorporated Analytical Modeling of a Dual-Material Gate Junctionless Nanowire: Extraction of Subthreshold Characteristics. *Journal of Electronic Materials, 54, 3046-3059.* https://doi.org/10.1007/s11664-025-11737-6. Impact Factor (JCR 2024): 2.5

PRIYANKA JAIN

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Priyanka Jain is a Professor in the Department of Electronics & Communications Engineering at Delhi Technological University, Delhi, where she has been a faculty member since 2011 with overall teaching and research experience of 25 years. She completed her Ph.D. at G.G.S.I.P. University, Delhi in the field of Digital Signal Processing. Her research interests lie in the area of Signal Processing, Analog Electronics and Microwave Engineering. Dr. Priyanka Jain is (co-) author of more than 45 National and International journal papers and more than 50 publications in National and International conference proceedings. Four students have already been awarded PhD degree under her guidance, and another Seven are pursuing PhD under her. She has been receiving Commendable Researcher Excellence Award for five years.

PUBLICATION DETAILS

1. Shruti Awasthi, **Priyanka Jain** (2025). The application of a novel clutter removal algorithm to SAR beamforming in breast microwave imaging. *Biomedical Signal Processing and Control, 100, 107017.* https://doi.org/10.1016/j.bspc.2024.107017. Impact Factor (JCR 2024): 4.9

RAHUL THAKUR

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Rahul Thakur is an Assistant Professor in the Department of Electronics and Communication Engineering at Delhi Technological University (DTU), Delhi, since July 2020. He received his Ph.D. from DTU (2025), M.Tech. from NSUT East Campus (2017), and B.Tech. from Guru Gobind Singh Indraprastha University (2015). His research interests include Machine Learning, Deep Learning, Digital Image Processing, Image Forensics, and Computer Vision. He has an h-index of 6 with over 235 citations and received the Research Excellence Award (2021 & 2025) at DTU. He qualified UGC-NET (JRF & Assistant Professor) and GATE in Electronics and Communication Engineering and is a member of IEEE, ISTE, IETE, and CSI. He has also contributed to academic development by organizing short-term courses, workshops, and a Faculty Development Programme, and by leading training programmes on advances in Computer Vision, while undertaking various academic and administrative responsibilities at departmental and university levels.

PUBLICATION DETAILS

1. **Rahul Thakur**, Rajesh Rohilla (2025). MDLFormer: multi-modal global context-based swin transformer for image manipulation detection and localization. *Signal, Image and Video Processing, 19(11), 880.* https://doi.org/10.1007/s11760-025-04407-x. Impact Factor (JCR 2024): 2.1
2. Kartik Bindra, Hitesh Gupta, Devyansh Bhattacharya, **Rahul Thakur** (2025). HyperSwin: preventing deepfake proliferation with swin-efficient fusion in a hyperledger ecosystem. *Signal, Image and Video Processing, 19(8), 661.* https://doi.org/10.1007/s11760-025-04183-8. Impact Factor (JCR 2024): 2.1

RAVI

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Mr. Ravi is serving as an Associate Professor in the Department of Electronics and Communication Engineering at Galgotias College of Engineering. He is also convener of cultural committee of Galgotias College. He obtained his M.Tech. from IIT Roorkee and earned his Ph.D. in Electronics and Communication Engineering from Delhi Technological University. He receive research award from Delhi Technological University. His research expertise spans speech signal processing, speech emotion recognition, and deep learning, with a strong emphasis on developing intelligent and emotion aware models for enhanced human machine interaction. Dr. Ravi has published several research papers in reputed international journals and conferences, showcasing significant contributions to the fields of signal processing and artificial intelligence.

PUBLICATION DETAILS

1. **Ravi**, Sachin Taran (2025). Speech emotion recognition using energy based adaptive mode selection. *Speech Communication, 171, 103228.* https://doi.org/10.1016/j.specom.2025.103228. Impact Factor (JCR 2024): 3.0
2. **Ravi**, Sachin Taran (2025). A filtering approach for speech emotion recognition using wavelet approximation coefficient. *Measurement, 256, 118165.* https://doi.org/10.1016/j.measurement.2025.118165. Impact Factor (JCR 2024): 5.6

REKHA RANI

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Rekha Rani received Ph.D. degree in Electronics and Communication Engineering from Delhi Technological University, Delhi. She has 8 years of experience in academics and industrial research. She has number of research publications and book chapters. Her research interests include the Wireless Communication, Channel Modeling, Optimal Power Allocation, Channel Estimation and Free Space Optical Wireless Communication.

PUBLICATION DETAILS

1. **Rekha Rani**, M. Lakshmanan, Anup Kumar Mandpura, N. Jayanthi (2025). Pointing error influence on the performance of dual-hop radio frequency/wireless optical communication system over Nakagami-m/Fisher-Snedecor turbulence channels. *Photonic Network Communications, 49(2), 3.* https://doi.org/10.1007/s11107-025-01028-9. Impact Factor (JCR 2024): 1.7

ROHIT KHANDEKAR

Department of Electronics and Communication Engineering



Rohit Khandekar received his Masters' degree in Electronics and Telecommunication Engineering from Symbiosis Institute of Technology, Pune in 2018. From 2021, he is perusing Ph.D. degree from department of Electronics and Communication Engineering Delhi Technological University, Delhi. His current research interests include Metamaterials, Gain Enhanced Antennas, MIMO Antennas, Reconfigurable Antennas and Wearable Antennas.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. **Rohit Khandekar**, Deepika Sipal (2025). Polarisation-Insensitive phase gradient metasurface gain enhanced antenna. *AEU - International Journal of Electronics and Communications, 197, 155836.* https://doi.org/10.1016/j.aeue.2025.155836. Impact Factor (JCR 2024): 3.2

S. INDU

Department of Electronics and Communication Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Prof. S. Indu received her B.Tech. degree and M. Tech. degree in Electrical Engineering from University of Kerala, India and PhD in the area of Visual Sensor Networks from University of Delhi, Delhi, India. She Joined Electronics and Communication Engineering Department of Delhi College of Engineering in 1999. Currently she is working as Dean (Digital Education), and Professor of ECE Department of Delhi Technological University. She worked as Vice Chancellor of DTU during Sept-Nov 2023. Also she was Dean student welfare, DTU for 6 years and HOD, ECE Department of DTU for 3 years. She has guided around 45 M Tech students. 20 students completed PhD under her guidance and 5 are pursuing. She is a member of BOS of JNU. She has 5 patents in her credit.Her area of research interest is Computer Vision, Sensor Networks and Image Processing. She has published one book "Smart Camera Networks" published by INTECH, USA and 6 Book Chapters. She has published around 200 publications in international journals, National and International conferences. She has completed 6 Sponsored projects worth 1 CR as Principal Investigator, sponsored by Naval Research Board and Department of Science and Technology. Now one project is ongoing with IIT Jodhpur. She received Commendable research award of Delhi Technological University for 6 consecutive years 2018 to 2024. Also received Premium Research award in 2024. Last year she received awards in all 5 categories of DTU research awards. She is the recipient of Best Branch Councillor award from IEEE USA and also recipient of Outstanding Branch Councillor award of IEEE Delhi section for 5 consecutive years from 2013-2018.

SHIKHA

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Shikha received the B.Tech degree in electronics and communication engineering from university institute of engineering and technology (U.I.E.T), KUK, India, in 2011 and the M.Tech degree in Electronics and communication from same university in 2013. Presently, she is working as assistant professor in Department of ICE s in Bharati Vidyapeeth's College of Engineering, New Delhi. She is currently pursuing part time Ph.D. in VLSI from Delhi Technological University, New Delhi in digital VLSI design.

PUBLICATION DETAILS

1. **Shikha**, Kirti Gupta, Neeta Pandey (2025). Register design in positive feedback source coupled logic for mixed-signal applications. *Analog Integrated Circuits and Signal Processing, 124(3), 57.* https://doi.org/10.1007/s10470-025-02462-5. Impact Factor (JCR 2024): 1.4
2. **Shikha**, Kirti Gupta, Neeta Pandey (2025). High-Performance PFSCL Edge-Triggered Registers. *International Journal of Circuit Theory and Applications, 54(7), 3885–3901.* https://doi.org/10.1002/cta.70214. Impact Factor (JCR 2024): 1.6

SHIKHA SINGHAL

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Shikha Singhal received the B.Tech. and M.Tech. degree in Electronics and Communication Engineering from Kurukshetra University, Kurukshetra, India, in 2011 and 2015 respectively. She is currently pursuing the Ph.D. degree with the Department of Electronics and Communication Engineering of Delhi Technological University, Shahbad Daulatpur, Delhi, India. She has worked with the Panipat Institute of Engineering and Technology as an Assistant Professor from January, 2016 to January, 2021. Her research interests include biomedical signal processing, artificial intelligence in healthcare, and image processing. She is honored with Research Excellence Award in 2024 and 2025 at Delhi Technological University, Delhi.

PUBLICATION DETAILS

1. **Shikha Singhal**, Manjeet Kumar (2025). FrnOBSA: fractional order-based spectral analysis for arrhythmia detection. *Physical and Engineering Sciences in Medicine, 48, 1955-1966.* https://doi.org/10.1007/s13246-025-01634-x. Impact Factor (JCR 2024): 2.0

SHILPA JAIN

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Shilpa Jain is a Ph.D. Scholar in the Department of Electronics and Communication Engineering at Delhi Technological University (DTU), Delhi. She has approximately 20 years of teaching and research experience in the field of electronics and communication engineering. She received her B.E. degree in Electronics and Communication Engineering in 2001 and her M.E. degree in Digital Communication in 2009 from Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal. Her research focuses on intelligent transportation systems, advanced driver assistance systems (ADAS), multitask deep learning architectures, and real-time perception for autonomous driving in unstructured environments. She has published several research articles in reputed international journals and conferences, particularly in the areas of computer vision and deep learning for autonomous driving applications.

PUBLICATION DETAILS

1. **Shilpa Jain**, S Indu, Nidhi Goel (2025). SmartDriveNet: an integrated approach for robust driving perception in unstructured environments and adverse weather conditions. *Sādhanā, 50(4), 344.* https://doi.org/10.1007/s12046-025-03011-6. Impact Factor (JCR 2024): 1.4

SHIVANI YADAV

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Shivani Yadav received her B.Tech. degree in Electronics and Communication Engineering from UIET, CSJM University, Kanpur, and her M.Tech. degree in VLSI Design from Malaviya National Institute of Technology (MNIT), Jaipur. She completed her Ph.D. in Electronics and Communication Engineering from Delhi Technological University, Delhi, India. Currently, she is serving as an Assistant Professor in the Department of Electronics and Communication Engineering at KIET Group of Institutions, Ghaziabad. Her research interests focus on the simulation and modeling of nanoscale devices, with particular emphasis on their applications in biosensing technologies. Dr. Yadav is actively engaged in academic research and teaching, contributing to the advancement of semiconductor device engineering. With a strong commitment to innovation and knowledge dissemination, she continues to inspire students and contribute to the development of emerging technologies in nanoelectronics and biosensor applications.

PUBLICATION DETAILS

1. **Shivani Yadav**, Sonam Rewari (2025). Dielectric modulated 4 H-SiC source triple metal gate-all-around silicon carbide FET (DM-TMGAA-SiCFET) biosensor for label-free biomolecule detection. *Microsystem Technologies, 31, 593-610.* https://doi.org/10.1007/s00542-024-05796-8. Impact Factor (JCR 2024): 1.8

SHRUTI AGGARWAL

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Shruti Aggarwal is CSIR Research Associate at Department of Electronics and Communication Engineering at Delhi Technological University. She has obtained PhD in Quantum Information Theory from the Department of Applied Mathematics, DTU. She earned BSc and MSc in Mathematics from the University of Delhi. Her research focuses on characterizing entanglement in higher-dimensional bipartite and multipartite quantum systems, bridging theory and experimental feasibility. She has published papers in reputed SCI journals. She has also presented her work in national and international conferences. Passionate about advancing quantum technologies, she aims to develop implementable methods to transform theoretical insights into practical innovations.

PUBLICATION DETAILS

1. **Shruti Aggarwal** (2025). Classification of Three-Qubit Genuine Entangled States Using Concurrence Fill. *International Journal of Theoretical Physics, 64(11), 292.* https://doi.org/10.1007/s10773-025-06152-w. Impact Factor (JCR 2024): 1.7

SONAL SINGH

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Sonal Singh received Ph.D degree in electronics engineering from University of Petroleum & Energy Studies (UPES), Dehradun, India, received M. Tech degree in nanotechnology from Jamia Millia Islamia, Delhi, India and B.Tech in electronics and communication engineering from UPTU, India. She is currently working as an Assistant Professor in the Department of Electronics and Communication Engineering, Delhi Technological University, Delhi, India. Her area of interest includes Photonic Crystal Fiber, Nanoelectronics/Nanotechnology, synthesis, characterization, applications including analog circuits, PEC and photocatalysis. She has published more than 20 papers in reputed international journals, conferences, research articles and book chapters.

PUBLICATION DETAILS

1. Hemanshi Chugh, **Sonal Singh** (2025). Thermally Stable and Cost-Efficient QCA-Based Co-Planar Design of a 4-Bit CSA with Optimized Cell Size Scaling. *Analog Integrated Circuits and Signal Processing, 125(2), 37.* https://doi.org/10.1007/s10470-025-02510-0. Impact Factor (JCR 2024): 1.4

SONAM REWARI

Department of Electronics and Communication Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Sonam Rewari received her Bachelor's degree in Electronics and Communication Engineering from Kurukshetra University, Kurukshetra, India, in 2005. She obtained her Master's degree in VLSI Design and Ph.D. in Gate-All-Around MOSFETs from Guru Gobind Singh Indraprastha University (GGSIPU), New Delhi, in 2012 and 2018, respectively. She is currently serving as an Assistant Professor in the Department of Electronics and Communication Engineering at Delhi Technological University, India. She is actively involved in guiding several doctoral scholars in the area of device modeling and design, contributing to the development of next-generation semiconductor technologies. Dr. Rewari has made significant academic and research contributions, including one published patent, five registered copyrights, around 40 SCI-indexed journal publications, and numerous international and national conference papers. Her dedication to research, innovation, and mentorship continues to inspire students and advance the field of nanoelectronics.

PUBLICATION DETAILS

1. Anubha Goel, **Sonam Rewari**, R.S. Gupta (2025). Performance investigation of neoteric Pt/Pd Junctionless gas tube FET(JL-GT-FET) as a Hydrogen(H2) gas sensor for industrial applications-analytical model. *Micro and Nanostructures, 198, 208050.* https://doi.org/10.1016/j.micrna.2024.208050. Impact Factor (JCR 2024): 3.0

SUGANDHA YADAV

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Ms. Sugandha Yadav has received her B. Tech. degree in Electronic and Communication Engineering from Hindustan Institute of Technology, Greater Noida, Uttar Pradesh-India in 2012. Thereafter, she pursued Masters of Technology in VLSI Design from National Institute of Technology, Kurukshetra, Haryana, India. Currently, she is pursuing her Ph.D. from Delhi Technological University (DTU), Delhi, India. Her research primarily focuses on organic electronics, flexible biomedical sensors, and photonic devices. She has published more than 15 research articles in International Journals and Conferences. In addition to research, she has more than 8 years of academic and research experience and presently, she is working as Assistant Professor (contractual) in the department of ECE at Gautam Buddha University, Greater Noida, India.

PUBLICATION DETAILS

1. **Sugandha Yadav**, Poornima Mittal, Shubham Negi (2025). Parametric Analysis of Organic LED and Photo-Diode Based Sensor for Heart Rate Detection. *Advanced Theory and Simulations, 8(8), 2500037.* https://doi.org/10.1002/adts.202500037. Impact Factor (JCR 2024): 2.9

SUMIT KALE

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Sumit Kale has been serving as an Assistant Professor in the Department of Electronics and Communication Engineering at Delhi Technological University (DTU), Delhi, since July 2020. He earned his Bachelor of Engineering degree from Samrat Ashok Technological Institute, Vidisha, Madhya Pradesh, and completed his Master of Technology in Microelectronics and VLSI Design from Shri G. S. Institute of Technology & Science, Indore, Madhya Pradesh. He obtained his Ph.D. from the PDPM Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Jabalpur, Madhya Pradesh, in 2017. Dr. Kale has over 10 years of teaching experience at both undergraduate and postgraduate levels and more than 15 years of research experience in nanoscale device simulation and modeling for analog/RF, digital, biosensor, and gas sensor applications. His research interests also include high-speed low-power circuit design, analog-to-digital converters, and GaN High Electron Mobility Transistors (HEMTs) for power electronics applications. He has supervised numerous B.Tech., M.Tech., and Ph.D. students in both minor and major projects. Dr. Kale has published several research articles in highly reputed peer-reviewed journals an international conferences. He is also an active peer reviewer for various SCI-indexed journals and conferences.

PUBLICATION DETAILS

1. Shashi Ranjan Upadhyay, **Sumit Kale**, Anukul Pandey (2025). Dielectric Modulated InAs Pocket Heterojunction Tunnel FET for Biosensor Applications. *ECS Journal of Solid State Science and Technology, 14, 047006.* https://doi.org/10.1149/2162-8777/adc338. Impact Factor (JCR 2024): 2.2
2. Danishk Barwa, Dhruv Khanna, Harshit Parihar, **Sumit Kale** (2025). A Novel n+ Pocket Doped L-Shaped Channel TFET for Biosensing Applications. *ECS Journal of Solid State Science and Technology, 14, 047010.* https://doi.org/10.1149/2162-8777/adccf8. Impact Factor (JCR 2024): 2.2

VIKAS VARSHNEY

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Vikas Varshney (Member, IEEE) received the B. Tech degree in Electrical and Electronics Engineering from Northern India Engineering College (now ADGIPS), Delhi, in 2010, and the M. Tech degree in Signal Processing from Ambedkar Institute of Advanced Communication Technologies & Research (now NSUT), Delhi, in 2015. He is currently pursuing the Ph.D. degree in Image Processing with the Department of Electronics and Communication Engineering, Delhi Technological University, India. His research interests include Image Processing, Signal Processing, and Artificial Intelligence.

PUBLICATION DETAILS

1. **Vikas Varshney**, Jeebananda Panda, Rashmi Gupta (2025). Effective dual stage fusion model for single image dehazing. *Pattern Analysis and Applications, 28(3), 133.* https://doi.org/10.1007/s10044-025-01510-0. Impact Factor (JCR 2024): 2.0

VIKRAM SINGH KARDAM

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Mr. Vikram Singh Kardam is currently doing PhD in the ECE department of Delhi Technological University (DTU), Delhi. He received his BTech. degree in ECE from Chhatrapati Shahuji Maharaj University, Kanpur UP and the MTech degree in Signal Processing and Digital Design from Delhi Technological University (DTU), Delhi. His research interest is Biomedical signal processing, Image processing, Machine learning, Deep learning and in the field of Brain computer interfaces and Human machine interactions. He has authored many research papers in various reputed international journals and conferences.

PUBLICATION DETAILS

1. **Vikram Singh Kardam**, Sachin Taran, Anukul Pandey (2025). BSPKTM-SIFE-WST: bispectrum based channel selection using set-based-integer-coded fuzzy granular evolutionary algorithm and wavelet scattering transform for motor imagery EEG classification. *Signal, Image and Video Processing, 19(4), 273.* https://doi.org/10.1007/s11760-025-03851-z. Impact Factor (JCR 2024): 2.1

VISHAL CHAUDHARY

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Vishal Chaudhary pursuing Ph.D from Delhi Technological University, Delhi, India, received M.Tech degree from Madan Mohan Malviya University of Technology Gorakhpur, India and B.Tech degree from Feroze Gandhi Institute of Engineering & Technology, Raebareli, India. His research interests include Photonic Crystal Fiber, PCF based Sensors, and biosensors.

PUBLICATION DETAILS

1. **Vishal Chaudhary**, Sonal Singh (2025). Design and optimization of a terahertz photonic crystal fiber based biosensor to detect malaria disease. *Journal of Computational Electronics, 24(1), 1.* https://doi.org/10.1007/s10825-024-02255-5. Impact Factor (JCR 2024): 2.5

YASHIKA CHAUHAN

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Yashika Chauhan received B.Tech degree in Electronics and Communication Engineering from The Northcap University, Gurugram, Haryana, India in 2019. In 2021, the M.Tech degree in Microwave Electronics from Department of Electronic Science, University of Delhi South Campus. Since 2022, she is a full-time Ph.D. scholar at Delhi Technological University. Her current research interests include active circuits, antenna design, wireless communication and body area network.

PUBLICATION DETAILS

1. **Yashika Chauhan**, Deepika Sipal (2025). UWB On-Body Channel Modeling and Analysis for Diverse Indian Dance Forms. *IEEE Sensors Journal, 25, 28560-28567.* https://doi.org/10.1109/jsen.2025.3581800. Impact Factor (JCR 2024): 4.5

YASHNA SHARMA

Department of Electronics and Communication Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Yashna Sharma is an Assistant Professor in the Department of Electronics and Communication Engineering at Delhi Technological University, India since 2016. She joined the Indira Gandhi Institute of Technology, Delhi in 2007 and received a degree of Bachelor of Technology in Electronics and Communication, in August of 2011 with exemplary performance from there. Thereafter, she joined the Indian Institute of Technology-Delhi in the fall of 2011 to pursue graduate studies. She obtained a Master's degree in Optoelectronics and Optical Communication from IIT Delhi in 2013. She was awarded the 'perfect ten gold medal' and the 'gold medal for the best woman with highest CGPA' by the President of India for her performance in the M. Tech program. She completed her Ph.D from IIT Delhi in 2017, for which she was awarded a 'Distinction in Doctoral Thesis' by IIT Delhi. Her research includes computational and numerical investigations of engineered plasmonic substrates, multi-wavelength SERS sensors and the design of optical switches based on phase change materials.

PUBLICATION DETAILS

1. Asbah Masih, **Yashna Sharma** (2025). Polarization Controlled, Dual-Band, Active Plasmonic Switch Based on T-Shaped Nanopillars on a VO2-Coated Plasmonic Substrate. *Plasmonics, 20, 9203-9215.* https://doi.org/10.1007/s11468-025-02986-6. Impact Factor (JCR 2024): 4.3

Department of

Electrical Engineering

ABHISHEK CHAUDHARY

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Abhishek Chaudhary is an IEEE member, faculty and researcher at Delhi Technological University. He obtained his B.E. in Instrumentation and Control Engineering in 2015 from Netaji Subhas Institute of Technology followed by an M.Tech. in Control and Instrumentation in 2018 and a Ph.D. in Optimization and Control in 2025 from Delhi Technological University. His research interests lie in intelligent control, optimal control and advanced optimization algorithms with emphasis on solving complex engineering control problems. He works on developing efficient computational techniques particularly nature-inspired and metaheuristic optimization methods for dynamic and nonlinear systems. His research also focuses on control strategies for unmanned vehicles and multi-degree-of-freedom systems with the aim of improving performance stability and efficiency. In addition to his research activities Dr. Chaudhary is actively involved in teaching and mentoring undergraduate and postgraduate students in the areas of control systems optimization and instrumentation. He has contributed to the academic community through publications in peer-reviewed journals and presentations at international conferences and continues to advance the application of modern optimization techniques in control engineering and intelligent autonomous systems.

PUBLICATION DETAILS

1. **Abhishek Chaudhary** (2025). Innovative Control Framework for Nonlinear Vibrations of a Balancer System Through Hybrid FPID Controller. *Journal of Vibration Engineering & Technologies, 13(1), 115.* https://doi.org/10.1007/s42417-024-01700-w. Impact Factor (JCR 2024): 2.4
2. **Abhishek Chaudhary**, Bharat Bhushan (2025). Novel Optimization Approach to Control the Nonlinear Vibrations of a Real Time Balancer System Under Unknown Disturbances. *Journal of Vibration Engineering & Technologies, 13(2), 181.* https://doi.org/10.1007/s42417-024-01552-4. Impact Factor (JCR 2024): 2.4
3. **Abhishek Chaudhary**, Rohan Pillai, Shreyansh Upadhyaya, Gaurav Kaushik (2025). Stabilizing a Nonlinear Helicopter Model: Advanced Hybrid Optimization Technique for Controlled Rotor Dynamics and Vibration Minimization Under External Disturbances. *Journal of Vibration Engineering & Technologies, 13(3), 199.* https://doi.org/10.1007/s42417-025-01759-z. Impact Factor (JCR 2024): 2.4

ALKA SINGH

Department of Electrical Engineering



AWARD SUMMARY

Cumulative Citation Award (Silver)

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Alka Singh received the B.E. degree in Electrical Engineering from Delhi College of Engineering, Delhi, India, in 1996, the M. Tech. Degree in Technology in Power systems from the Indian Institute of Technology, New Delhi, India, in 2001, and the Ph.D. degree from Netaji Subash Institute of Technology (Delhi University), Delhi, India, in 2006. She has teaching, industry and research experience of more than twenty five years. She is a Senior member of IEEE and Executive Committee member of IEEE PES-IAS Delhi Chapter. She is currently a Professor in the Department of Electrical Engineering, Delhi Technological University, Delhi. Her research interests include power systems, power quality and applications of power electronics to power systems.

PUBLICATION DETAILS

1. **Alka Singh**, Srishti Singh (2025). Development of improved functional neural network based autoregression models for power quality improvement. *Electrical Engineering, 107, 3483-3493.* https://doi.org/10.1007/s00202-024-02719-8. Impact Factor (JCR 2024): 1.9

ANJALI RAI

Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Anjali Rai received the B.Tech degree in Electrical Engineering in 2017 from V.B.S Purvanchal University, Jaunpur, U.P. M.Tech degree in Control and Instrumentation (Electrical Engineering) from M.M.M University of Technology, Gorakhpur. Earning a Gold Medal in B.Tech. and M.Tech. for academic excellence. Pursuing a PhD from DTU, New Delhi, in the jamodelling and control of non-linear dynamic systems using an Intelligent Controller.

PUBLICATION DETAILS

1. Anjali Rai, Bharat Bhushan, Bhavnesh Jaint (2025). Design of a Novel Recurrent Neural Network Model for Identification and Adaptive Control of Dynamical Systems. *International Journal of Robust and Nonlinear Control, 35, 7817-7836.* https://doi.org/10.1002/rnc.70076. Impact Factor (JCR 2024): 3.2

ANUP KUMAR MANDPURA

Department of Electrical Engineering



AWARD SUMMARY

Premier Research Award

Anup Kumar Mandpura (Member IEEE) received the B.Tech degree in Electronics Engineering from Banaras Hindu University, Varanasi, India in 2006 , M.Tech degree in Digital Signal Processing from the Indian Institute of Technology, Guwahati, India in 2009 and the Ph.D. degree in wireless communication, from the Indian Institute of Technology, Delhi, India in 2018. He is currently working with the Department of Electrical Engineering, Delhi Technological University, Delhi, India as an Assistant Professor. His research interests include performance analysis of wireless communication systems, energy harvesting communication systems, millimeter-wave systems and signal processing.

PUBLICATION DETAILS

1. Rekha Rani, N. Jayanthi, **Anup Kumar Mandpura** (2025). Power Allocation and CAR Optimization in Multiuser Dual-Hop RF/FSO DF Relaying Systems With Channel Estimation Error. *IEEE Transactions on Green Communications and Networking, 9, 1513-1523.* https://doi.org/10.1109/tgcn.2025.3535523. Impact Factor (JCR 2024): 6.7

APOORVA CHOUMAL

Department of Electrical Engineering



AWARD SUMMARY

Premier Research Award

Commendable Research Award

Apoorva Choumal is a research scholar in Electrical Engineering at Delhi Technological University (DTU), Delhi, currently pursuing her Ph.D. in Power Systems with a specialization in machine learning-based photovoltaic (PV) power forecasting, cloud dynamics, and spatiotemporal modeling. She completed her M.Tech. in Electrical Engineering from IIT (BHU), Varanasi, with a CGPA of 9.66, and her B.Tech. in Electrical Engineering from Government Engineering College, Bikaner. Her academic journey reflects a strong foundation in power systems, renewable energy, and intelligent data-driven methodologies. Her research is centered on developing intelligent, scalable, and privacy-preserving solutions for renewable energy systems through the integration of machine learning, federated learning, reinforcement learning, and real-time simulation. She has worked extensively in the areas of PV forecasting, cloud-aware anomaly detection, system integrity monitoring, and PV-integrated electric vehicle charging optimization. Her contributions include AI-driven forecasting models based on ramprate classification, multi-site cloud dynamics analysis, and federated reinforcement learning frameworks for anomaly detection in large-scale PV plants. She has also proposed unified predictiondispatch frameworks for real-time PV scheduling under uncertainty and high EV penetration. With publications in reputed IEEE journals and conferences and teaching experience as a Teaching Assistant during both her Ph.D. and M.Tech., she aspires to contribute meaningfully to sustainable and intelligent energy systems.

PUBLICATION DETAILS

Premier Research Award

1. **Apoorva Choumal**, M. Rizwan, Shatakshi Jha (2025). A Unified Prediction-Dispatch Framework for PV Power Scheduling Using Reinforcement Learning. *IEEE Transactions on Consumer Electronics, 71, 10235-10247.* https://doi.org/10.1109/tce.2025.3619248. Impact Factor (JCR 2024): 10.9

Commendable Research Award

2. **Apoorva Choumal**, M. Rizwan, Shatakshi Jha (2025). Big data analytics for photovoltaic and electric vehicle management in sustainable grid integration. *Journal of Renewable and Sustainable Energy, 17(1), 016102.* https://doi.org/10.1063/5.0249951. Impact Factor (JCR 2024): 1.9

ARPANA SINGH

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Arpana Singh received the M.Tech. degree from VSSUT, Burla in Power Systems in 2021. She is currently pursuing the Ph.D. degree with the Department of Electrical Engineering, Delhi Technological University (DTU), Delhi, India.Her research focuses on the design and planning of electric vehicle charging stations, smart charging strategies, and energy management of EV charging systems. Her work integrates machine learning and optimization techniques for EV load forecasting, charging coordination, and efficient utilization of power system resources.

PUBLICATION DETAILS

1. **Arpana Singh**, Uma Nangia, M. Rizwan (2025). A Novel Forecasting Approach to Schedule Electric Vehicle Charging Using Real-Time Data. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 38(2), e70027.* https://doi.org/10.1002/jnm.70027. Impact Factor (JCR 2024): 1.7

ASHUTOSH GUPTA

Department of Electrical Engineering



AWARD SUMMARY

Innovation Award

Premier Research Award

Commendable Research Award

Ashutosh Gupta received the B.Tech. degree in Electrical and Electronics Engineering from the National Institute of Technology Meghalaya in 2015, and the M.Tech. degree in Control and Instrumentation Engineering from Delhi Technological University (DTU), Delhi, in 2020, where he also earned the Ph.D. degree in Power Electronics in 2025. His research interests include the modeling, analysis, and design of power electronic converters for renewable energy applications and electric vehicles, renewable energy systems, power electronics, and electric drives. He has published numerous research articles in reputed SCI- and Scopus-indexed journals and international conferences and holds multiple patents, including two granted utility patents and two granted design patents, along with four published utility patents. He is currently serving as Assistant Manager (R&D) at Havells India Ltd., and previously served as an Assistant Professor in the Department of Electrical and Electronics Engineering at Bharati Vidyapeeth's College of Engineering, New Delhi.

PUBLICATION DETAILS

Premier Research Award

1. Dheeraj Joshi, **Ashutosh Gupta** (2025). Controller Design and Modeling of a Single-Switch Fifth-Order High-Voltage-Gain Converter With Parasitics for Electric Vehicle Charging. *IEEE Transactions on Transportation Electrification, 11, 10647-10659.* https://doi.org/10.1109/tte.2025.3553705. Impact Factor (JCR 2024): 8.3

Commendable Research Award

1. **Ashutosh Gupta**, Dheeraj Joshi (2025). Mathematical modeling and stress-aware stability analysis of a nonideal multiport Single Inductor DC–DC converter for renewable energy. *International Journal of Circuit Theory and Applications, 53, 2602-2633.* https://doi.org/10.1002/cta.4234. Impact Factor (JCR 2024): 1.6
2. **A. Gupta**, D. Joshi (2025). Mathematical Analysis and Topology Derivation for a Family of Novel Dual Output High-Voltage Gain Z-Source Converter for Renewable Energy Application. *International Journal of Circuit Theory and Applications, 53, 4735-4753.* https://doi.org/10.1002/cta.4369. Impact Factor (JCR 2024): 1.6
3. Shabana Urooj, Dheeraj Joshi, **Ashutosh Gupta**, Amal BaQais (2025). Derivation Analysis and Control of Multiport Flyback Converter with Lyapunov Function-Based Controller in Renewable Energy Systems Considering Circuit Parasitics. *Arabian Journal for Science and Engineering, 50, 5711-5725.* https://doi.org/10.1007/s13369-024-09493-6. Impact Factor (JCR 2024): 2.9

ATUL AVASTHI

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Atul Avasthi is a renewable energy researcher specializing in solar photovoltaic (PV) systems, floating solar technologies, and Battery energy storage system (BESS). He received his Ph.D. in Electrical Engineering from Delhi Technological University (DTU), Delhi. His research focuses on floating solar PV systems, solar tracking technologies, inverter loading ratio optimization, and long-term degradation assessment of photovoltaic plants. He has published several research papers in international journals and conferences in the field of renewable energy and solar PV systems. He is also received best paper award for a conference paper in Year 2025. He is currently working as a Consultant at Panacean Enterprise Pvt. Ltd., contributing to solar PV performance assessment, technical due diligence, and technoeconomic analysis for utility-scale solar projects.

PUBLICATION DETAILS

1. **Atul Avasthi**, Rachana Garg, Priya Mahajan (2025). Optimizing energy harvesting: a comprehensive analysis of tracking technologies in a 2 $${\hbox {MW}}_P$$ floating solar photovoltaic system. *Electrical Engineering, 107, 4663-4681.* https://doi.org/10.1007/s00202-024-02780-3. Impact Factor (JCR 2024): 1.9
2. **Atul Avasthi**, Rachana Garg, Priya Mahajan (2025). Long-term degradation assessment of a 2 MW floating solar photovoltaic plant in a humid subtropical climate using time-series analysis. *Computers and Electrical Engineering, 128, 110738.* https://doi.org/10.1016/j.compeleceng.2025.110738. Impact Factor (JCR 2024): 4.9

BASANT TOMAR

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Basant Tomar completed his Ph.D. in intelligent control and robotics systems with the Department of Electrical Engineering, Delhi Technological University (DTU), Delhi, India. He is currently working as an Assistant Managing Editor in the Global Services-OA department, SAGE, New Delhi, India. He received his M.Tech degree in Control and Instrumentation Engineering from DTU, Delhi, India in 2020 and the B.E. degree in Instrumentation and Control Engineering from Netaji Subhas University of Technology (formerly NSIT), Delhi, India in 2016. He has qualified for the national-level Graduate Aptitude Test in Engineering (GATE) and was a recipient of the GATE Financial Scholarship from 2018 to 2020. He has worked as a guest faculty at IGDTUW and DTU from 2024-2025. He has also worked in the R&D department at Addverb Technologies Pvt. Ltd., Noida, India. He has many publications in peer-reviewed journals and has presented his research articles at several International Conferences. He has also published two patents and has been awarded one patent grant by the Intellectual Property India, Govt. of India. His area of research includes fuzzy systems, instrumentation and control, Real-time control systems, PLC and SCADA automation.

PUBLICATION DETAILS

1. **Basant Tomar**, Narendra Kumar, Mini Sreejeth (2025). A Smart PLC and SCADA Based Control Framework for Automated Assembly Line in Process Industry with Effluent Ratio Control Strategy. *Sadhana, 50, 222*. https://doi.org/10.1007/s12046-025-02878-9. Impact Factor (JCR 2024): 1.4

BHARAT BHUSHAN

Department of Electrical Engineering



AWARD SUMMARY

Innovation Award

Dr. Bharat Bhushan is the Professor at the Department of Electrical Engineering in Delhi Technological University, Delhi, India. He has received Ph.D. Degree from the Department of Electrical Engineering, Delhi College of Engineering, University of Delhi, Delhi, India. He is senior member of IEEE, life member of ISTE, fellow of Institution of Electronics & Telecommunication Engineering and Institution of Engineers (India). His areas of research are Power Electronics, Intelligent Control, Electric Drives, Electric Vehicles and Artificial Intelligence. He has guided five Ph.Ds and thirty-three M.E./M.Tech. students. He has organized first IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES 2016) in July 2016 at DTU, two faculty development programs on Intelligent Control Techniques & Their Applications in December 2014 and Nature Inspired Algorithms & Their Applications in July 2015. He has published 90 research papers in conferences and journals of international repute including IEEE Transaction, Springer, Wiley and Elsevier.

CHAUDHRY INDRA KUMAR

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Chaudhry Indra Kumar is an Assistant Professor in the Department of Electrical Engineering at Delhi Technological University, where he has been since 2020. Prior to that, he was working as an Assistant professor in Birla Institute of Technology and Science Pilani, Goa. Previously he was associated with the Indian Institute of Technology Roorkee, as a Research Associate. He received his Ph.D. in VLSI Design from the Indian Institute of Technology Roorkee in 2019. He received his Masters (M.Tech.) from IIITM Gwalior, India. Dr. Chaudhry Indra Kumar has more than Eight year of teaching experience in his career. He has published several research articles and served as a reviewer in many reputed international journals and conferences. His research interest is in the areas of device physics, circuit-device interaction, Low power circuit design, and energy efficient sequential circuit design.

PUBLICATION DETAILS

1. Niraj Kumar, Chaudhary Indra Kumar, Neeta Pandey (2025). High-performance radiation hardened latch using Schmitt trigger. *Integration, 104, 102478*. https://doi.org/10.1016/j.vlsi.2025.102478. Impact Factor (JCR 2024): 2.5
2. Niraj Kumar, **Chaudhry Indra Kumar**, Neeta Pandey (2025). High-performance and robust triple node upset radiation hardened latch design. *AEU - International Journal of Electronics and Communications, 201, 155977*. https://doi.org/10.1016/j.aeue.2025.155977. Impact Factor (JCR 2024): 3.2

DATA RAM BHASKAR

Department of Electrical Engineering



Senior Member IEEE (USA), Fellow IETE (INDIA), Fellow IE (INDIA), Chartered Engineer (IE) INDIA, Life Member ISTE (INDIA) (Former Professor and Head, Department of Electronics and Communication Engineering Faculty of Engineering and Technology, Jamia Millia Islamia, Jamia Nagar, New Delhi-110025)

PUBLICATION DETAILS

1. **Data Ram Bhaskar**, Ajishek Raj, Khushwant Sehra, Raj Senani (2025). An improved multifunction network using two current feedback operational amplifiers. *AEU - International Journal of Electronics and Communications, 202, 156047.* https://doi.org/10.1016/j.aeue.2025.156047. Impact Factor (JCR 2024): 3.2

AWARD SUMMARY

Commendable Research Award

DEEPAK KUMAR

Department of Electrical Engineering



Deepak Kumar received his B.Tech. degree in Electrical and Electronics Engineering from Dr. A. P. J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh, India, in 2017, and his M.Tech. degree in Nanoscience and Technology from the Department of Applied Physics at Delhi Technological University, Delhi, India, in 2021. He is currently pursuing the Ph.D. degree at the Centre of Excellence for Electric Vehicle and Related Technologies, Department of Electrical Engineering, Delhi Technological University, Delhi, India. Mr. Kumar has authored eleven research articles in international and national journals, presented nine conference papers, and contributed one book chapter. In recognition of his research contributions, he received the Research Excellence Award (2022) from Delhi Technological University. He is also a recipient of the Anusandhan National Research Foundation International Travel Scheme (ITS) Grant (2025) as a Young Scientist. His broader research interests include energy storage systems, lithium-ion battery technologies, electric vehicle technologies, Green Artificial Intelligence (Green AI), and intelligent battery management solutions for next-generation transportation systems.

AWARD SUMMARY

Premier Research Award

Commendable Research Award

PUBLICATION DETAILS

Premier Research Award

1. **Deepak Kumar**, M. Rizwan, Amrish K. Panwar (2025). Towards Green AI: A Novel Hybrid Filter Based AI Approach for Energy Efficient State of Charge and Energy Estimation in Li-Ion Batteries Under Various Drive Cycles. I*EEE Transactions on Industry Applications, 61, 7633-7645.* https://doi.org/10.1109/tia.2025.3550108. Impact Factor (JCR 2024): 4.5

Commendable Research Award

1. **Deepak Kumar**, M. Rizwan, Amrish K. Panwar (2025). Robust state of health estimation of commercial lithium-ion batteries based on enhanced hybrid machine learning model for electrified transportation. *Electrical Engineering, 107, 5053-5070.* https://doi.org/10.1007/s00202-024-02808-8. Impact Factor (JCR 2024): 1.9

DIVYANSH SHAILLY

Department of Electrical Engineering



Divyansh Shailly (31/10/1992) has received a B. Tech. degree in Electrical Engineering from H.M.R Institute of Technology, GGSIP University, Delhi, India, in 2016, MTech. In Power Electronics and drives from the Vellore Institute of Technology, Vellore, India, in 2019, and currently pursuing a Ph.D from Delhi Technological University, Delhi, India. My research interests include FACTS, power electronics, and power quality, distributed energy resources, Renewable energy sources, and electric vehicles.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. **Divyansh Shailly**, Prakash Chittora, Madhusudan Singh (2025). Performance analysis of multiple delayed signal cancellation (MDSC) for power quality improvement for fixed speed SEIG-based distributed generation. *Electrical Engineering, 107, 10911-10930.* https://doi.org/10.1007/s00202-025-03068-w. Impact Factor (JCR 2024): 1.9

GAURAV YADAV

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Gaurav Yadav received the Ph.D. from DTU in 2025 and a B.Tech. degree in electrical engineering from Integral University at Lucknow in 2015 and is currently working as a Post-Doc. fellow at IIT BHU. From 2017 to 2019, he was with the Power Systems Labs in the Electrical Engineering Department at Integral University, Lucknow, for his M.Tech. degree. His research interests include high-frequency power converters, DC/DC converters, power electronic systems, wireless power transmission, adaptive controller design, digital control using the F28789D microcontroller, power quality issues, closed-loop control, filter design, gridinteractive chargers, and the use of ML/AI in bidirectional EV chargers and AC/DC converters.

PUBLICATION DETAILS

1. **Gaurav Yadav**, Mukhtiar Singh (2025). Real-time investigation of grid-interactive EV charger with two-stage bidirectional converter under wide voltage range scenarios. *Electrical Engineering, 107, 1993-2005.* https://doi.org/10.1007/s00202-024-02609-z. Impact Factor (JCR 2024): 1.9
2. **Gaurav Yadav**, Mukhtiar Singh (2025). Optimizing Power Quality in EV Chargers Using Advanced Quadrature Signal Generators and AI-Driven Adaptive Filtering. *International Journal of Circuit Theory and Applications, 53, 5937-5958.* https://doi.org/10.1002/cta.4424. Impact Factor (JCR 2024): 1.6
3. **Gaurav Yadav**, Poonam Dhaka (2025). Stabilizing DC bus voltage using CEEMDAN-XGBoost based adaptive filtering technique in EV chargers. *Computers and Electrical Engineering, 127, 110547.* https://doi.org/10.1016/j.compeleceng.2025.110547. Impact Factor (JCR 2024): 4.9

KARTIK SAINI

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

I am Kartik Saini, a research scholar in the Department of Electrical Engineering at Delhi Technological University, New Delhi. My academic and research interests are centered around advanced topics in electrical engineering, particularly artificial neural networks, modeling and control, and nonlinear systems. I am deeply engaged in exploring how intelligent computational techniques can be applied to solve complex engineering problems. My work focuses on developing efficient models and control strategies that improve system performance, stability, and adaptability in dynamic and uncertain environments.

PUBLICATION DETAILS

1. **Kartik Saini**, Narendra Kumar, Bharat Bhushan, Rajesh Kumar (2025). Nonlinear complex dynamic system identification based on a novel recurrent neural network. *Soft Computing, 29, 957-976.* https://doi.org/10.1007/s00500-025-10457-7. Impact Factor (JCR 2024): 2.5

KASHIKA BARANWAL

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Received the B.Tech. degree in Electrical Engineering from Uttar Pradesh Technical University in 2013, and the M.Tech. degree in Automation and Robotics from Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi, in 2015. Currently pursuing the Ph.D. degree at Delhi Technological University (DTU), Delhi, India. Authored seven research papers published in reputed international journals and conferences. Research interests include photovoltaic power conversion, with emphasis on solar cell modeling and analysis, design and implementation of solar PV systems, performance evaluation under partial shading conditions, and the development of innovative techniques to enhance overall system efficiency.

PUBLICATION DETAILS

1. **Kashika Baranwal**, Prem Prakash, Vinod Kumar Yadav (2025). Optimizing bypass diode performance with modified hotspot mitigation circuit. *Solar Energy Materials and Solar Cells, 280, 113281.* https://doi.org/10.1016/j.solmat.2024.113281. Impact Factor (JCR 2024): 6.3
2. **Kashika Baranwal**, Prem Prakash, Vinod Kumar Yadav (2025). A novel Odd–Even inspired approach for optimal shade dispersion in PV arrays. *Energy, 339, 139072.* https://doi.org/10.1016/j.energy.2025.139072. Impact Factor (JCR 2024): 9.4

KULDEEP SINGH

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Kuldeep Singh, born in Delhi, India, in 1991. He has received B.Tech. degree in Electrical Engineering from the Indian Institute of Technology Ropar, India, in 2013 and M.Tech. degree in power systems from Delhi Technological University, New Delhi, India in 2016. He currently working towards his Ph.D. degree with the Department of Electrical Engineering at the Delhi Technological University.

PUBLICATION DETAILS

1. **Kuldeep Singh**, Mukhtiar Singh, Sudarshan K. Valluru (2025). Performance enhancement of electric vehicle using ultracapacitor based hybrid energy storage system. *Journal of Energy Storage, 134, 118129.* https://doi.org/10.1016/j.est.2025.118129. Impact Factor (JCR 2024): 9.8

LALIT AGARWAL

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

LALIT AGARWAL(Student Member IEEE) received the bachelor's degree(Hons.) in Electrical and Electronics Engineering from U. P. Technical University, Lucknow, the master' degree (Hons.) in Power System and Drives from J. C. Bose university of Science and Technology, Faridabad (Formerly YMCA University of Science and Technology, Faridabad). He is currently pursuing PhD degree from Delhi Technological University, Delhi. He is presently working as an Assistant Professor in EEE Department of Maharaja Agrasen Institute of Technology, Delhi (affiliated to GGSIP University, Delhi). His research interests include Artificial Intelligence, machine learning, cyber security, power system modeling and control and smart grid.

PUBLICATION DETAILS

1. **Lalit Agarwal**, Bhavnesh Jaint, Anup K. Mandpura (2025). Hybrid AI framework for detecting cyberattacks and predicting cascading failures in power systems. *Sustainable Computing: Informatics and Systems, 48, 101222.* https://doi.org/10.1016/j.suscom.2025.101222. Impact Factor (JCR 2024): 5.7

M. RIZWAN

Department of Electrical Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Innovation Award

Sponsored Research Project Award

Prof. M. Rizwan did his post-doctoral research at Virginia Polytechnic Institute and State University, USA. He has more than 24 years of teaching and research experience. Dr. Rizwan has successfully completed five national and two international research projects in the area of renewable and sustainable energy and published and presented more than 235 research papers in reputed international/national journals including IEEE transactions and conference proceedings. Prof. Rizwan has authored one book for CRC Press, USA and edited one book for AIP Publishing, USA. Recently he has authored two books on energy science engineering and energy conservation and audit for All India Council for Technical Education, Govt. of India. He is the recipient of Raman Fellowships for Post-Doctoral Research for Indian Scholars in USA, DST Start Up Grants (Young Scientists) and many more. His area of interest includes AI applications in power engineering, renewable energy systems, building energy management, smart grid and EVs infrastructure etc. He is a Sr. Member of IEEE, Life Member of ISTE, Life Member of SSI, Member of International Association of Engineers (IAENG), and many other reputed societies.

MANVI MISHRA

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Manvi Mishra is a researcher in electrical engineering with a specialization in renewable energy systems, data-driven forecasting, and optimization techniques. She completed her Ph.D. focusing on developing advanced machine learning models for solar irradiance and electrical load forecasting to enhance the performance of solar PV systems. She is currently working as a Research Affiliate at the Power and Energy Systems Research Laboratory (PESRLAB), University of New Haven, where she develops predictive algorithms for efficient energy management and grid applications. Her expertise includes neural networks, Random Forest, XGBoost, and metaheuristic optimization methods for real-world energy system challenges. Her research interests span renewable energy integration, smart grids, EV-related forecasting, and the application of AI/ML techniques to improve power system reliability and sustainability.

PUBLICATION DETAILS

1. **Manvi Mishra**, Priya Mahajan, Rachana Garg (2025). Novel Version of Horse Herd Optimization for Enhancing Electric Load Forecasting Capabilities of Neural Networks. *Arabian Journal for Science and Engineering, 50, 17537-17554.* https://doi.org/10.1007/s13369-025-09996-w. Impact Factor (JCR 2024): 2.9

MAYANK KUMAR

Department of Electrical Engineering



Dr. Mayank Kumar is an Assistant Professor with the Department of Electrical Engineering, Delhi Technological University, Delhi, India. He received the B.Tech. (Hons.) degree in electronics and communication engineering from Dr. A.P.J. Abdul Kalam Technical University, Lucknow, India, in 2010, and the M.Tech. and Ph.D. degrees in electrical engineering from the Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India, in 2013 and 2017, respectively. Dr. Kumar is a senior member of IEEE and a member of the Institution of Engineers, and he is on the Stanford 2% Scientist Award list for the year 2024 & 2025. He has more than fifteen years of experience in the field of teaching and research. His research interests include fault-tolerant dc-dc converters, fault detection and identification in MLIs, dc-dc, dc-ac, and ac-ac converters, solar power conversion, and so on. He has published several IEEE Transactions and IET Journals, in which six (06) IEEE Transactions are as a single author, two patents are granted, two patents are published, and he completed one SERB-sponsored project at a cost of 31.48 lakhs. He is a regular reviewer of IEEE Transactions on Industrial Electronics, Power Electronics, Transportation Electrification, Industry Applications, Circuits and Systems, and so on.

AWARD SUMMARY

Innovation Award

Premier Research Award

Commendable Research Award

PUBLICATION DETAILS

Premier Research Award

1. Rushiv Bansal, Rishabh Bansal, **Mayank Kumar**, Madhusudan Singh (2025). Fault-Tolerant Multiport DC–DC Converter With Reduced Current Ripple and Step-Up/Down Voltage Gain Charging Capability. *IEEE Transactions on Transportation Electrification, 11, 13416-13430.* https://doi.org/10.1109/tte.2025.3603615. Impact Factor (JCR 2024): 8.3

Commendable Research Award

2. Rishabh Bansal, Rushiv Bansal, **Mayank Kumar** (2025). Improved Reliability and Performance Evaluation of Switched-Boost Multiport Converter Using Time-Multiplexing Control. *IEEE Canadian Journal of Electrical and Computer Engineering, 48, 167-175.* https://doi.org/10.1109/icjece.2025.3567092. Impact Factor (JCR 2024): 1.9

MD. MODASSIR MASOOM

Department of Electrical Engineering



Md. Modassir Masoom received the B.E. degree in electrical and electronics engineering from Sir M. Visvesvaraya Institute of Technology, Bangalore, India, in 2017 and the M.Tech degree in control and instrumentation in 2020 from Delhi Technological University, Delhi, India, where he is currently working toward the Ph.D. degree in electrical engineering with the Department of Electrical Engineering. His research interests include power electronics converters, modelling and control of power converters, and solar power conversion.

AWARD SUMMARY

Premier Research Award

PUBLICATION DETAILS

1. **Md. Modassir Masoom**, Mayank Kumar, Narendra Kumar (2025). Design and Characterization of Solar PV Fed Fault Tolerant Multiport Converter With Reduced Current Ripple. *IEEE Transactions on Industry Applications, 61, 6644-6660.* https://doi.org/10.1109/tia.2025.3544565. Impact Factor (JCR 2024): 4.5

MEGHANA SHRIVASTAVA

Department of Electrical Engineering



Meghana Shrivastava received her B.Tech degree in Instrumentation Engineering from Bundelkhand University, Jhansi, India, in 2017, and her M.Tech degree in Control and Instrumentation Systems from Jamia Millia Islamia, New Delhi, India, in 2021. She is currently pursuing her doctoral studies in the Department of Electrical Engineering at Delhi Technological University, New Delhi, India. Her research interests include analog signal processing, signal generation, immittance simulator circuit design, and filter design. She has experience working with modern active building blocks such as CFOA, CFDITA, and VCII, as well as simulation tools including PSpice, Cadence Virtuoso, and MATLAB.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. **Meghana Shrivastava**, Data Ram Bhaskar, Pragati Kumar (2025). VCII-Based Immittance Simulators: Generalized Parallel Configurations. *International Journal of Circuit Theory and Applications, 53, 3754-3766.* https://doi.org/10.1002/cta.4300. Impact Factor (JCR 2024): 1.6

MONIKA VERMA

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Monika Verma (Senior Member, IEEE) received her B. Tech. Degree in Electrical Engineering from G. B. Pant University of Agriculture & Technology, Uttarakhand, India in 2013; M. Tech. Degree in Power Electronics and Drives from Vellore Institute of Technology, India in 2016, and Ph.D. degree in Electrical Engineering from Delhi Technological University, India in 2022. She has worked as Software Development Engineer in the Centre of Excellence for Electric Vehicle and Related Technologies, Electrical Engineering Department, Delhi Technological University, India. She is Institute of Electrical and Electronics Engineers (IEEE) Senior Member, and Institution of Engineering and Technology (IET) Associative Member.

PUBLICATION DETAILS

1. **Monika Verma**, Mini Sreejeth, Madhusudan Singh (2025). Design optimization of OR-PMSM-IPIM using modified slime mold optimization technique for UAV application. *Electrical Engineering, 107, 8347-8361.* https://doi.org/10.1007/s00202-023-02194-7. Impact Factor (JCR 2024): 1.9

NARENDRA KUMAR

Department of Electrical Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Prof. Narendra Kumar is Professor in Electrical Engineering in Delhi Technological University (DTU). He is also working as Director of North Campus in DTU. Earlier, He had been Registrar of DTU and Director of East Campus of Netaji Subhas University of Technology..He is having experience of more than 37 years in academics. He did Bachelor of Engineering in Electrical Engineering from IIT-Roorkee, Master of Engineering from Punjab Engineering College, Chandigarh, and Ph.D. from Delhi College of Engineering (Delhi University). He has published 155 research papers in various journals and conferences. He has published three books. He has been granted 1 patent and his 3 more patents have also been published. He has guided 11 PhDs. He is a senior member of IEEE, USA and life member of ISTE. He had been reviewer of several International Journals and conferences. He had also been examiner of MS thesis of McGill University, Canada.

NISHANT KUMAR

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Nishant Kumar received his B.Tech degree in electrical engineering from IMPS College of Engineering and Technology, Malda, West Bengal, India, in 2013 and MTech degree in power and energy systems from the National Institute of Technology Karnataka, Surathkal, Mangalore, India, in 2017. He is currently pursuing a PhD at the Department of Electrical Engineering, Delhi Technological University, Delhi, India. His areas of interest are nonlinear control systems, dc-dc converters, interleaved power converters, and resonant converters.

PUBLICATION DETAILS

1. **Nishant Kumar**, Mayank Kumar (2025). Modeling and characterization of n-phase interleaved buck converter with circuit parasitic for battery charging applications. *Electrical Engineering, 107, 5329-5339.* https://doi.org/10.1007/s00202-024-02347-2. Impact Factor (JCR 2024): 1.9

NITISHA SUDHIR DARWADE

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Nitisha Sudhir Drawade received B.E in Electrical Engineering in 2010 from Rashtrasanth Tukdoji Maharaj Nagpur University and M.Tech in Integrated Power System in 2014 from Visveswaraya National Institute of Technology, Nagpur. She worked as an Assistant Professor in Rashtrasanth Tukdoji Maharaj Nagpur University for more than four years. She is currently working toward Ph.D. degree at Delhi Technological University, New Delhi India. Her research area includes Power system protection, Power system stability, Renewable energy integration in Power grid and Wide Area Measurement Systems(WAMS).

PUBLICATION DETAILS

1. **Nitisha Sudhir Darwade**, S. T. Nagarajan (2025). Investigation on Impact of Inverter-Based Resources on Power System Using Phasor Measurement Unit. *Arabian Journal for Science and Engineering, 50, 17743-17758.* https://doi.org/10.1007/s13369-025-10114-z. Impact Factor (JCR 2024): 2.9

2. **Nitisha Sudhir Darwade**, S.T. Nagarajan (2025). Voltage Angle Based Power System Inertia Estimation Using Synchrophasor Technology. *Journal of Electrical Engineering & Technology, 20, 3925-3941.* https://doi.org/10.1007/s42835-025-02305-3. Impact Factor (JCR 2024): 1.6

OINAM LOTIKA DEVI

Department of Electrical Engineering



Oinam Lotika Devi, Assistant Prof in GBPIET, PAURI GHARWAL UTTRAKHAND, at Electrical Engineering Department, Research Scholar (QIP). Specialization in the area of synchronisation Techniques and control of power electronic converters, power system, machine and drives. Experience: 14 yrs

PUBLICATION DETAILS

1. **Oinam Lotika Devi**, Alka Singh (2025). Performance analysis of fractional-order modified SRF PLL under grid abnormalities. *International Journal of Circuit Theory and Applications, 53, 1491-1511.* https://doi.org/10.1002/cta.4161. Impact Factor (JCR 2024): 1.6
2. **Oinam Lotika Devi**, Alka Singh (2025). Design of hybrid LMS-SOGI-based phase-locked loop tested under adverse grid conditions. *Electrical Engineering, 107, 13151-13168.* https://doi.org/10.1007/s00202-025-03200-w. Impact Factor (JCR 2024): 1.9

AWARD SUMMARY

Commendable Research Award

POONAM DHAKA

Department of Electrical Engineering



Poonam Dhaka received her B.Tech. degree from Maharishi Dayanand University, Rohtak, India, in 2012, and her M.Tech. degree from the National Institute of Technology Agartala, India, in 2018. She is currently pursuing a Ph.D. degree in Electrical Engineering at Delhi Technological University (DTU), Delhi, India. Her research interests include machine learning applications in power systems, renewable energy forecasting, and sustainable grid operations. Her current work also focuses on electric power markets, power system analysis, grid integration of renewable energy sources, and data-driven decision-making for modern power networks.

PUBLICATION DETAILS

1. **Poonam Dhaka**, Mini Sreejeth, M. Tripathi (2025). Hybrid attention-based deep learning model using feature engineering approaches for wind power forecasting. *Electrical Engineering, 107, 15343-15357.* https://doi.org/10.1007/s00202-025-03329-8. Impact Factor (JCR 2024): 1.9

AWARD SUMMARY

Commendable Research Award

PRAKASH CHITTORA

Department of Electrical Engineering



Dr. Prakash Chittora received his Ph.D degree from Delhi Technological University, Delhi in 2018. He completed his B.E. degree in electrical engineering from the Jai Narain Vyas University, Jodhpur, Rajasthan, India in 2008, and the M. Tech. degree in power system from Delhi Technological University, Delhi, India in 2010. He is currently working as Assistant Professor in Electrical Engineering Department, Delhi Technological University. His research interest includes power electronics, power quality, and distributed generation, RES and EV etc.

PUBLICATION DETAILS

1. Sudhanshu Mittal, Alka Singh, **Prakash Chittora** (2025). Rodrigues Jacobi polynomial based control technique for on board EV charger in single phase power distribution system. *Electric Power Systems Research, 248, 111981.* https://doi.org/10.1016/j.epsr.2025.111981. Impact Factor (JCR 2024): 4.2

AWARD SUMMARY

Commendable Research Award

RAHMA AMAN

Department of Electrical Engineering



Rahma Aman has received the M.Tech. degree in Control and Instrumentation systems from Electrical engineering department, Jamia Millia Islamia University, New Delhi, India in 2021. She completed the B.Tech. degree in Electrical engineering from United college of engineering and Research, Uttar Pradesh, India in 2018. Presently, she is pursuing the Ph.D. degree from Delhi Technological University, Delhi, India. Her research interests focus on renewable energy integration, optimization techniques, PV systems under partial shading conditions and deep learning approaches for power maximization.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. **Rahma Aman**, M. Rizwan, Astitva Kumar (2025). A novel hybrid intelligent approach for solar photovoltaic power prediction considering UV index and cloud cover. *Electrical Engineering, 107, 1203-1224.* https://doi.org/10.1007/s00202-024-02577-4. Impact Factor (JCR 2024): 1.9
2. **Rahma Aman**, Mohammad Rizwan, Astitva Kumar (2025). A novel deep learning framework for PV module thermal condition monitoring. *Electrical Engineering, 107, 7085-7101.* https://doi.org/10.1007/s00202-024-02930-7. Impact Factor (JCR 2024): 1.9
3. **Rahma Aman**, Mirzaev Dilshod, Zoirov Ulmas, Astitva Kumar, M. Rizwan (2025). A novel hybrid GWO-Bi-LSTM-based metaheuristic framework for short-term solar photovoltaic power forecasting. *Journal of Renewable and Sustainable Energy, 17(4), 046101.* https://doi.org/10.1063/5.0264101. Impact Factor (JCR 2024): 1.9

RANJEET SINGH

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Ranjeet Singh received the B.Tech. degree in electrical engineering from G.B. Pant Engineering College Ghurdauri, Pauri Garhwal, India, in 2011, the M.Tech. degree in renewable energy systems from the National Institute of Technology, Kurukshetra, India, in 2016 and PhD from Delhi Technological University, Delhi in 2024. He is currently working as Assistant Professor in the Department of Electrical Engineering, Faculty of Technology, University of Delhi. His research interests include modeling and characterization of solar cells, diagnostic and monitoring techniques for photovoltaic devices and system , PV reconfiguration for enhanced performance and output power yield.

PUBLICATION DETAILS

1. Viraj Jain, **Ranjeet Singh**, Ranjana Yadav, Vinod Kumar Yadav, Vikas Kumar, Shlok Garg (2025). Multi-step optimization for reconfiguration of solar PV array for optimal shade dispersion. *Electrical Engineering, 107, 5639-5675.* https://doi.org/10.1007/s00202-024-02840-8. Impact Factor (JCR 2024): 1.9

ROHINI SHARMA

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Rohini Sharma: She received the B. Tech in electrical engineering from Maharshi Dayanand University. She received the M. Tech in power system from Deenbandhu Chhotu Ram University of science and technology. her research interest in power system, converter and inverter and machine learning. Currently, she is pursuing Ph.D. in electrical engineering department.

PUBLICATION DETAILS

1. **Rohini Sharma**, Priya Mahajan, Rachana Garg (2025). Deep-reinforcement-learning-based controller design for pantograph and catenary system. *Sādhanā, 50(2), 46.* https://doi.org/10.1007/s12046-025-02692-3. Impact Factor (JCR 2024): 1.4

SHEFALI PAINULI

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

She is a PhD scholar supervised by Prof. Suman Bhowmick and Prof. Radheshyam Saha. Her research focuses on electrical power systems, with particular emphasis on power distribution networks. Her doctoral thesis is titled “Investigations on the Impact of Electric Vehicle Charging on Power Distribution Networks.” She has published one paper in an IEEE Transactions journal with an impact factor of 9.9, as well as two SCI-indexed papers with Elsevier and Springer, having impact factors of 4.2 and 2.9, respectively.

PUBLICATION DETAILS

1. **Shefali Painuli**, Suman Bhowmick, Radheshyam Saha (2025). Mitigation of Residential EV Charging Effects on Power Distribution Networks with Optimal Allocation of DGs Using Coati Optimization. *Arabian Journal for Science and Engineering, 50, 10731-10750.* https://doi.org/10.1007/s13369-024-09782-0. Impact Factor (JCR 2024): 2.9
2. **Shefali Painuli**, Divyanshu Khandelwal, Suman Bhowmick, Radheshyam Saha (2025). Effects of residential EV charging on power distribution networks and their mitigation by optimal allocation of wind-based DG resources. *Electric Power Systems Research, 241, 111395.* https://doi.org/10.1016/j.epsr.2024.111395. Impact Factor (JCR 2024): 4.2

SHILPA RANJAN

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Shilpa Ranjan was born in Bihar, India, in 1995. She received the B.Tech. degree in Electrical Engineering from the College of Engineering & Management, Kolaghat, W.B., India, and M.Tech. degree from Delhi Technological University, New Delhi, India. She is currently pursuing a PhD degree at DTU. Her research interests include electric machine drives and power electronics.

PUBLICATION DETAILS

1. **Shilpa Ranjan**, Madhusudan Singh, Mini Sreejeth (2025). ANFIS-Based Resonant Controller for Mitigating Torque Ripples and Addressing Parametric Variation in PMSM-Driven Electric Vehicle. *Arabian Journal for Science and Engineering, 50, 10869-10880.* https://doi.org/10.1007/s13369-024-09950-2. Impact Factor (JCR 2024): 2.9

SHOBANA R.

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Shobana. R is currently pursuing Phd in Electrical Engineering. Her research interest includes Application of Artificial Neural network in modeling and control, Nature inspired learning algorithms, Optimization.

PUBLICATION DETAILS

1. Shobana R., Rajesh Kumar, Bhavnesh Jaint (2025). Feedback-based optimization of feed-forward neural network for the modeling of complex nonlinear dynamical systems using novel APSOBP algorithm. *ISA Transactions, 167 Part B, 1637–1659.* https://doi.org/10.1016/j.isatra.2025.09.013. Impact Factor (JCR 2024): 6.5

SHRUTI PRAJAPATI

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Shruti Prajapati is a researcher in the field of Electrical Engineering with a focus on renewable energy systems and advanced control techniques. She completed her Ph.D. with research on improving the performance of microgrids integrated with renewable energy sources. She also completed her M.Tech with work on network reconfiguration-based outage management for microgrids using a Hardware-in-the-Loop approach with tools such as MATLAB and Typhoon HIL. Her research interests include microgrid control, power converter control, optimization techniques, battery management systems, artificial neural networks, islanding detection, and power quality improvement. She has published several research papers in reputed international journals and conferences.

PUBLICATION DETAILS

1. **Shruti Prajapati**, Rachana Garg, Priya Mahajan (2025). Performance enhancement of grid-tied SPV system using evolutionary optimization technique. *Sādhanā, 50(3), 215.* https://doi.org/10.1007/s12046-025-02872-1. Impact Factor (JCR 2024): 1.4

SHUBHAM GUPTA

Department of Electrical Engineering



AWARD SUMMARY

Premier Research Award

Shubham Gupta received the B.E. degree in electrical engineering from the College of Technology and Engineering, Udaipur, India, in 2012, the M.Tech. degree in power engineering from Guru Nanak Dev Engineering College, Ludhiana, India, in 2015. He is currently working toward the Ph.D. degree with Delhi Technological University, Delhi, India. His research interests include power system operation, electricity trading, and distribution system analysis.

PUBLICATION DETAILS

1. **Shubham Gupta**, Vinod Kumar Yadav, Madhusudan Singh (2025). Aggregation of Distributed Energy Resources for Optimal Operation in Local Energy Communities With Grid Constraints. *IEEE Transactions on Industrial Informatics, 21, 5723-5733.* https://doi.org/10.1109/tii.2025.3558313. Impact Factor (JCR 2024): 9.9

SOMBIR KUNDU

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Sombir Kundu received his B.Tech degree in Electrical Engineering from Maharishi Dayanand University, Rohtak, Haryana, India, in 2011. In August 2014, he joined the Department of Electrical Engineering, School of Engineering and Technology (a unit of Ganga Technical Campus), Bahadurgarh, Haryana, as an Assistant Professor. In May 2022, he joined the Department of Electrical Engineering, Ganga Institute of Technology and Management, Jhajjar, Haryana, India, as an Assistant Professor. In August 2024, he joined the Department of Electrical Engineering, MMEC, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, Haryana, India, as an Assistant Professor. He has authored and co-authored 42 publications, including research papers in reputed journals such as IEEE, Elsevier, Wiley, Taylor & Francis, and Springer. He has also contributed five book chapters published by Elsevier and CRC Press and is the editor of one book published by Springer Nature, Singapore. He is currently guiding two Ph.D. students. He has served as a session chair at the International Conference on Intelligent Computing, Simulation and Optimization (December 08–10, Goa). He received the Research & Innovation Excellence Award at Delhi Technological University, New Delhi, in both 2024 and 2025. He is also serving as an editor of Scientific Reports (Springer Nature) and International Transactions on Electrical Energy Systems (Wiley). His research interests include power electronics, renewable energy, microgrids, power quality, and the application of adaptive and robust control techniques in microgrids.

PUBLICATION DETAILS

1. **Sombir Kundu**, Madhusudan Singh, Ashutosh K. Giri, Sunil Kadiyan, Prakash Chittora, Divyansh Shailly (2025). Robust and fast control approach for islanded microgrid system and EV charging station applications. *Electrical Engineering, 107, 8385-8396.* https://doi.org/10.1007/s00202-024-02291-1. Impact Factor (JCR 2024): 1.9

SUDHANSHU MITTAL

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

I have completed my Ph.D. degree in the EE department at DTU, Delhi. My research area is power quality improvement and Grid connected EV charging systems. I also completed my M.Tech from IIT-ISM Dhanbad with a specialization in Power System Engineering in 2018 and my B.Tech from SHIATS, Allahabad, in 2013. I have joined as an assistant professor of Research in the Electrical and Instrumentation Engineering Department at Thapar Institute of Engineering and Technology.

PUBLICATION DETAILS

1. **Sudhanshu Mittal**, Alka Singh, Prakash Chittora (2025). Design and development of Reduced Switch Five Level Inverter for interfacing renewable energy sources and EV charger. *Electrical Engineering, 107, 6735-6749.* https://doi.org/10.1007/s00202-024-02373-0. Impact Factor (JCR 2024): 1.9

SUKHBIR SINGH

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Sukhbir Singh is working as a Junior Engineering (Electrical) since November 2024 in Uttar Haryana Bijli Vitran Nigam (UHBVN), Govt. of Haryana. He has more than 10 years of experience in research and teaching at several institutions. He received his B.Tech in Electrical Engineering from MDU Rohtak in 2011, his M.Tech in Electrical Power System from MDU Rohtak in 2015 and his PhD from Delhi Technological University in 2025. His research focuses on grid-connected PV systems, renewable energy, power quality, and the application of adaptive and robust control techniques in grid-connected PV systems.

PUBLICATION DETAILS

1. **Sukhbir Singh**, J. N. Rai (2025). Enhancement of power quality in three-phase GC solar photovoltaics. *Electrical Engineering, 107, 8413-8431.* https://doi.org/10.1007/s00202-024-02304-z. Impact Factor (JCR 2024): 1.9

UDIT MITTAL

Department of Electrical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Udit Mittal is an Assistant Professor in the Department of Electrical Engineering at JSS Academy of Technical Education, Noida, India. He has more than 15 years of experience in teaching, research, and academic activities. Dr. Mittal received his B.E. (Honors) in Electrical Engineering and M.Tech. in Power Systems and Drives from Aligarh Muslim University (AMU), Aligarh, India. He has been awarded a Ph.D. in Electrical Engineering from Delhi Technological University (DTU), Delhi, India, under the supervision of Prof. Uma Nangia and Prof. N. K. Jain. During the course of his Ph.D., he published three journal papers and several conference papers in reputed venues.

PUBLICATION DETAILS

1. **Udit Mittal**, Uma Nangia, Narender Kumar Jain, Saket Gupta (2025). Optimal power flow solutions for normal and critical loading scenarios using hybrid Rao-2 sine cosine algorithm. *Computers and Electrical Engineering, 123, 110230.* https://doi.org/10.1016/j.compeleceng.2025.110230. Impact Factor (JCR 2024): 4.9

VINOD KUMAR YADAV

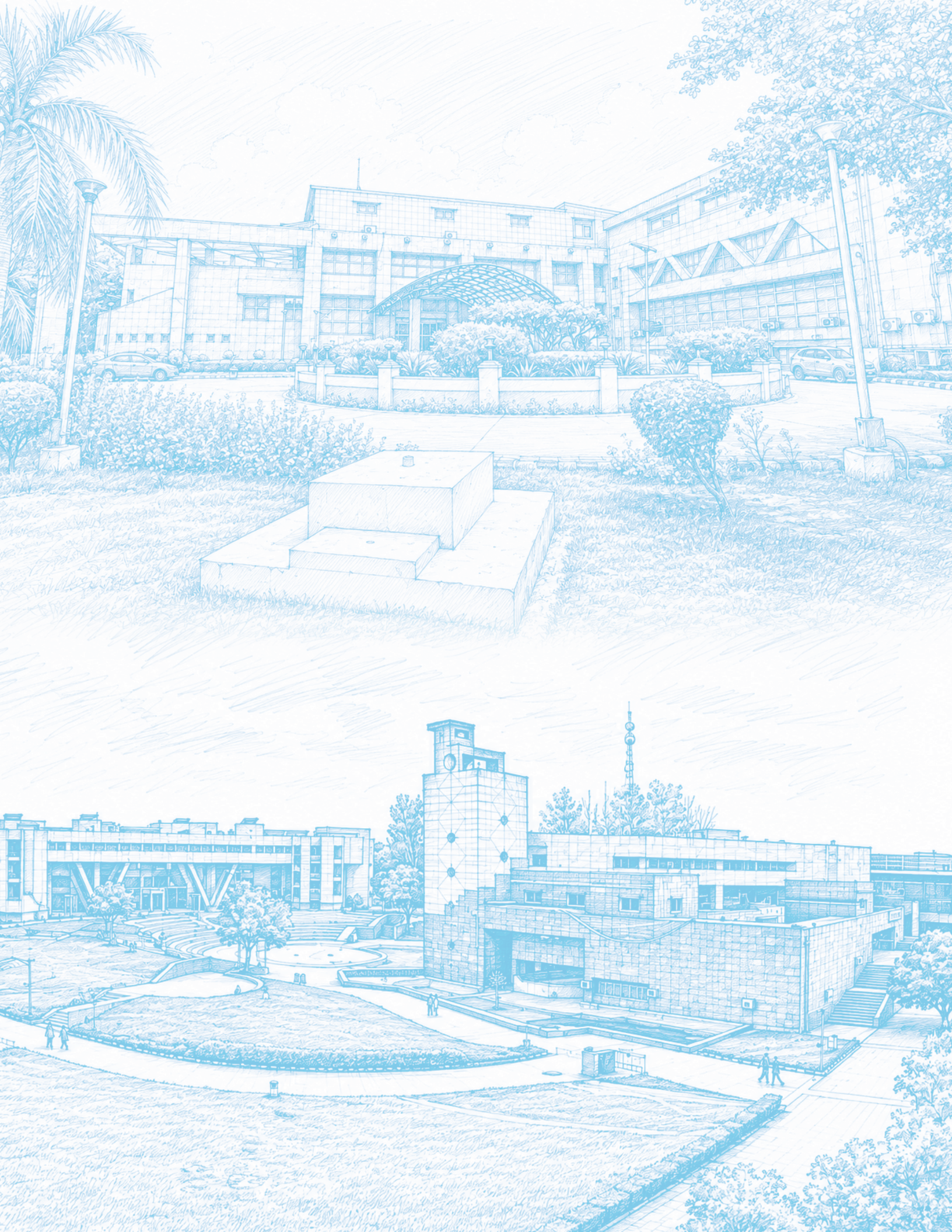
Department of Electrical Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Vinod Kumar Yadav earned his Ph.D. in Electrical Engineering from IIT Roorkee, India, in 2011. Prior to this, he completed his M.Tech. in Power Systems from the NIT Jamshedpur, India, in 2005 and his B.Tech. in Electrical Engineering from the IET, Bareilly, India, in 2003. He is currently associated with the Delhi Technological University (DTU), Delhi, India, as a professor of Electrical Engineering.



Department of

Environmental Science and Engineering

DEEPALI GOYAL

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Ms. Deepali Goyal is a Ph.D. candidate in the Department of Environmental Science and Engineering at Delhi Technological University, where she is conducting her doctoral research under the supervision of Prof. S. K. Singh and Prof. A. K. Haritash. Her research focuses on groundwater quality assessment, and the application of modelling and predictive techniques for water resource evaluation. She holds a Master's degree in Water Science and Governance from TERI University, New Delhi, and a Bachelor's degree in Food Technology from Punjab Agricultural University, Ludhiana. She qualified the UGC-NET examination in Environmental Sciences and was awarded the Junior Research Fellowship (JRF). She has published three research articles in peer-reviewed international journals and one paper in conference proceedings.

PUBLICATION DETAILS

1. **Deepali Goyal**, A. K. Haritash, *S.* K. Singh (2025). Predictive Modeling and Spatial Analysis of Irrigation Water Quality in a Key Agricultural Region: An ANN-Based Approach. *Water Environment Research, 97(7), e70147.* https://doi.org/10.1002/wer.70147. Impact Factor (JCR 2024): 1.9

HARSH PIPIL

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Harsh Pipil is an Assistant Professor in Department of Environmental Engineering, currently engaged in treatment of water, wastewater, and stormwater runoff using different techniques and methods. He has acquired Civil Engineering from Noida Institute of Engineering and Technology, Greater Noida. Followed by it, he has completed M. Tech. in Environmental Engineering from Delhi Technological University, Delhi. After M. Tech., he worked with Military Engineer Services (MES) as Junior Engineer in Jaipur, India. He went to Auckland, New Zealand, to study Construction Project Management from Unitec Institute, and worked successfully as Site Manager, while located in Auckland. He has acquired Doctorate of Philosophy in Environmental Engineering from Delhi Technological University. His area of interest is wastewater treatment, stormwater treatment, constructed wetlands, air pollution, and global warming. He has also attended several National and International conferences, seminars, workshops and successfully published many research papers and edited book chapters in reputed international journals and books.

PUBLICATION DETAILS

1. Shivani Yadav, Saurav Ambastha, **Harsh Pipil**, A.K. Haritash (2025). Influence of land use pattern on urban stormwater runoff characteristics: a spatio-temporal case study of Delhi, India. *Physics and Chemistry of the Earth, Parts A/B/C, 140, 103989.* https://doi.org/10.1016/j.pce.2025.103989. Impact Factor (JCR 2024): 4.1
2. Shivani Yadav, Saurav Ambastha, **Harsh Pipil**, Anil Kumar Haritash, Krishna R. Reddy (2025). Deciphering the Sustainable Stormwater Management Strategies for Urban Areas: a Review. *Water Resources Management, 39, 2971-2991.* https://doi.org/10.1007/s11269-025-04222-6. Impact Factor (JCR 2024): 4.7

KANAGARAJ RAJAGOPAL

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Kanagaraj Rajagopal is an environmental engineer and researcher specializing in air quality and urban aerosols. He earned his Ph.D. in Environmental Engineering from Delhi Technological University (DTU), and M.Tech. in Green Energy Technology from Pondicherry University, and a B.E. in Environmental Engineering from Anna University. Currently serving as a Program Associate in the Air Pollution and Waste Management Division at iFOREST, his work bridges rigorous academic research with practical environmental assessment. His core research investigates ultrafine particle dynamics, urban aerosols, and traffic emissions within metropolitan microenvironments. Dr. Rajagopal is a prolific author, having published extensively in peer-reviewed scientific journals and contributed multiple book chapters on waste management and environmental sustainability. His dedication to advancing environmental science earned him DTU's Commendable Research Award in both 2023 and 2024.

PUBLICATION DETAILS

1. **Kanagaraj Rajagopal**, S. Ramachandran, Rajeev Kumar Mishra (2025). Traffic-induced nanoparticle emissions and associated respiratory risk analysis using measurements conducted in a roadside environment. *Air Quality, Atmosphere & Health, 18, 941-952.* https://doi.org/10.1007/s11869-024-01689-x. Impact Factor (JCR 2024): 2.9
2. **Kanagaraj Rajagopal**, S. Ramachandran, Rajeev Kumar Mishra (2025). Influence of local meteorology and gaseous pollutant emissions on atmospheric nanoparticle concentrations in a pedestrian way in urban region. *Atmospheric Pollution Research, 16, 102358.* https://doi.org/10.1016/j.apr.2024.102358. Impact Factor (JCR 2024): 3.5

KULVENDRA PATEL

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Kulvendra Patel is a Senior Research Fellow in the Department of Environmental Engineering at Delhi Technological University, New Delhi. Under the guidance of Prof. S.K. Singh, his doctoral research centers on evaluating the environmental sustainability of biofuels in India using life cycle assessment (LCA) methodologies. His research interests include LCA, biofuels, wastewater treatment, and solid waste management. He has authored 10 peer-reviewed SCI publications on topics such as the environmental impacts of wastewater treatment, biofuel production, and biochar derived from agricultural waste, and has also contributed to 7 book chapters in the same domain. His recent studies have explored sustainable waste management practices, including the production of biofuel from agricultural and municipal waste, reflecting a strong emphasis on renewable energy and circular economy approaches. For his contributions to environmental research, he received the Research Excellence Award from DTU in the year 2023, 2024, and 2025. He is actively involved in disseminating his research through platforms like ResearchGate, Google Scholar, and Springer Nature's research communities, promoting scientific collaboration. He also serves as a reviewer for high-impact scientific journals published by Nature, Elsevier, and Springer. His work plays a vital role in advancing environmental engineering solutions tailored to India's sustainability challenges.

PUBLICATION DETAILS

1. **Kulvendra Patel**, S. K. Singh (2025). Sustainable biodiesel from used cooking oil: a comparative life cycle, energy, and uncertainty analysis. *Environment, Development and Sustainability, 27, 14755-14780.* https://doi.org/10.1007/s10668-024-05692-1. Impact Factor (JCR 2024): 4.2
2. **Kulvendra Patel**, Mallika Vashist, Deepali Goyal, Riki Sarma, Rachna Garg, S. K. *Singh (2025).* From waste to resource: A life cycle assessment of biochar from agricultural residue. *Environmental Progress & Sustainable Energy, 44(2), e14558.* https://doi.org/10.1002/ep.14558. Impact Factor (JCR 2024): 2.3

LAVI DHIMAN

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Lavi Dhiman Is currently a Ph.D. student focusing on the disposal and degradation of nanomaterials. She completed my M.Sc. in Environmental Science from YMCA. Her research aims to explore effective and eco-friendly methods for nanowaste management. I am passionate about understanding environmental challenges and developing sustainable solutions. Through my work, I strive to contribute to environmental protection and scientific advancement, working toward a cleaner and healthier environment for future generations.

PUBLICATION DETAILS

1. **Lavi Dhiman**, Shalini Anand, Santosh Kumar Singh (2025). Bioremediation potential of the consortium of indigenous microbial isolates in degrading multiwall carbon nanotube (MWCNT) present in contaminated water. *Archives of Microbiology, 207(2), 49.* https://doi.org/10.1007/s00203-025-04250-1. Impact Factor (JCR 2024): 2.6
2. **Lavi Dhiman**, Dinesh Bhardwaj, Vikas Kumar Gahlot, Shalini Anand, Santosh Kumar Singh, Pramod Kumar Rai (2025). Recovery of Carbon Nanomaterials from an Aqueous Environment Employing Oil-Based Microemulsion and Surfactant-based Cloud Point Extraction. *Water, Air, & Soil Pollution, 236(3), 145.* https://doi.org/10.1007/s11270-025-07760-2. Impact Factor (JCR 2024): 3.0

LOVLEEN GUPTA

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Lovleen Gupta is an Associate Professor in the Department of Environmental Science and Engineering at Delhi Technological University, Delhi, India. She holds a Ph.D. from IIT Delhi, an M.S. from Lehigh University, USA, and a B.E. from Punjab Engineering College, Chandigarh, India. With several years of industry experience in India and the USA, her expertise spans Air Quality Assessment; Aerosol Monitoring and Characterisation; Source Apportionment & Receptor Modelling; Atmospheric Aerosol Chemistry; Emission & GHG Inventories; and human health risk assessment. Her research has been published in high impact journals. She is a member of American Association of Aerosol Research (AAAR), Association of Environmental Engineering and Science Professors (AEESP), and the Indian Institution of Engineers (IoE), India.

PUBLICATION DETAILS

1. Thrividya Nirmani, Shazia Shifa, **Lovleen Gupta** (2025). Assessment of PM $_{2.5}$ and PM $_{10}$ Over Sri Lanka: Spatiotemporal Trends, Potential Source Regions, and Associated Health Effects. *CLEAN – Soil, Air, Water, 53(10), e70051.* https://doi.org/10.1002/clen.70051. Impact Factor (JCR 2024): 1.4

MALLIKA VASHIST

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Mallika Vashist is an environmental professional specializing in sustainable urban development and Nature-Based Solutions (NBS). With a strong academic and research background from Delhi Technological University, she has spent over three years as a research fellow, building expertise in climate change mitigation, air pollution management, and urban ecosystem services. Her work focuses on understanding and quantifying the role of urban vegetation in improving air quality, sequestering carbon, and supporting sustainable city planning. Mallika has contributed to the scientific community through peer-reviewed research papers and book chapters, with a particular emphasis on biomonitoring and heavy metal accumulation in urban environments. Her research integrates advanced analytical approaches, including Monte Carlo simulations, to assess environmental variability and uncertainty, enabling more robust policy and planning insights. Currently working as an Assistant Manager at ReNew in the carbon development business, she is actively involved in developing afforestation and reforestation projects using globally recognized standards such as Verra's methodologies. Her work bridges science and implementation, focusing on generating measurable climate benefits and aligning projects with Sustainable Development Goals (SDGs). Driven by a commitment to environmental sustainability, Mallika aims to contribute to scalable, science-based climate solutions that deliver both ecological and socio-economic impact.

PUBLICATION DETAILS

1. **Mallika Vashist**, S. K. Singh, T. Vijaya Kumar (2025). Enhancing resilience for sustainable cities: a review of threats to urban trees. *Biodiversity and Conservation, 34, 1231-1258.* https://doi.org/10.1007/s10531-025-03025-w. Impact Factor (JCR 2024): 3.1
2. **Mallika Vashist**, Santosh Kumar Singh, Thangamani Vijaya Kumar (2025). Urban Trees as Nature-Based Solutions for Heavy Metal Biomonitoring: A Comparative and Uncertainty Analysis Assessment. *Water, Air, & Soil Pollution, 236(12), 769.* https://doi.org/10.1007/s11270-025-08423-y. Impact Factor (JCR 2024): 3.0

MONIKA SHARMA

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Ms. Monika Sharma received B.Sc. (Hons.) Degree in Zoology from the University of Delhi and M.Sc. Degree in Environmental Science from Dr. Bhimrao Ambedkar University, Agra, India. At present, she is a Doctoral Researcher at the Department of Environmental Engineering, Delhi Technological University, Delhi, India. Her research focuses on monitoring and analyzing household pollutant levels across different socioeconomic strata and promoting healthier indoor environment practices to support better health, comfort, and productivity. She was recently recognized for her outstanding contributions to the Indoor Environment Quality and received the Young Researcher award by the Society for Indoor Environment (SIE) at IIT Delhi. She has attended and presented her research work in several national and international conferences. She has published four SCI-indexed papers, one Scopus-indexed paper, and book chapters in peer-reviewed journals.

PUBLICATION DETAILS

1. **Monika Sharma**, Mukesh Khare, Rajeev Kumar Mishra (2025). Indoor particle number concentration measurements across different income group households in urban region. *Urban Climate, 59, 102329.* https://doi.org/10.1016/j.uclim.2025.102329. Impact Factor (JCR 2024): 6.9
2. **Monika Sharma**, Mukesh Khare, Rajeev Kumar Mishra (2025). Indoor ultrafine particle concentrations and their size distributions during festival-associated emissions in urban region. *Atmospheric Pollution Research, 16, 102671.* https://doi.org/10.1016/j.apr.2025.102671. Impact Factor (JCR 2024): 3.5

RACHNA GARG

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Ms. Rachna Garg is a research scholar in Department of Environmental Engineering, Delhi Technological University. Her research area is industrial wastewater treatment using advance oxidation processes. She has gained her master degree in Environment Management from Guru Gobind Singh Indraprastha University, Delhi. She has received her graduation degree in life sciences from MDU, Rohtak. She has published three paper in SCI international journal and two paper in conference preceding.

PUBLICATION DETAILS

1. **Rachna Garg**, S. K. Singh, T. Vijay Kumar (2025). A review of zero liquid discharge and solvent driven aqueous phase processes for brine treatment. *Clean Technologies and Environmental Policy, 27, 8931-8953.* https://doi.org/10.1007/s10098-024-02949-1. Impact Factor (JCR 2024): 3.9

RAJEEV KUMAR MISHRA

Department of Environmental Science and Engineering



Dr. Rajeev Kumar Mishra is working as an Associate Professor in the Department of Environmental Science and Engineering. The thrust areas of his research are Environmental implications of urban transport systems, Air & Noise Pollution Monitoring, Modelling and Management, Tailpipe emissions, Ultrafine particulates, Impact of urban transport on climate change and Sustainable development. He has supervised 07 Ph.D. theses, 19 M.Tech. Dissertations and 31 B.Tech. Projects. He has published 72 research papers in International Journals and 9 in National Journals. He has also participated in 66 International and National conferences. Dr. Mishra has written 11 book chapters in Springer and Springer Nature. Beyond academic contributions, Dr. Mishra has made a remarkable impact on public understanding of environmental issues. He has published over 95 newspaper articles in prominent regional, national and international newspapers, simplifying complex environmental science topics for the general public. His writings address issues such as air pollution, nanoparticle exposure, traffic emissions, noise pollution and urban environmental risks.

AWARD SUMMARY

Sponsored Research Project Award

Commendable Research Award

PUBLICATION DETAILS

1. Ravi Pratap Singh Jadon, Nasim Akhtar, **Rajeev Kumar Mishra** (2025). Assessment of railway noise exposure in slum settlements of a metropolitan city. *Environmental Monitoring and Assessment, 197(9), 1059.* https://doi.org/10.1007/s10661-025-14483-8. Impact Factor (JCR 2024): 3.0

S. K. SINGH

Department of Environmental Science and Engineering



S. K. Singh, Former Vice Chancellor of Rajasthan Technical University, Kota, is a distinguished academic and environmental engineer with an extensive background in teaching, research, and institutional leadership. A graduate of BITS Pilani and IIT

Varanasi, he has over three decades of experience, having held key positions at Delhi Technological University and other prestigious institutions. His expertise spans environmental engineering, water resource management, life cycle assessment, and sustainability studies. Prof. Singh is a fellow of numerous professional bodies and has significantly contributed to environmental science through over 280 research publications in national and international forums. His work includes pioneering studies in wastewater treatment, biofuels, groundwater quality, and air pollution control. He has also played influential roles on editorial boards of several international journals. Renowned for his scholarly impact and administrative acumen, Prof. Singh continues to drive academic excellence and sustainable innovation in environmental engineering.

AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

SHIVANI YADAV

Department of Environmental Science and Engineering



Dr. Shivani Yadav is working as a Project Scientist in an Environment Sustainability firm where she is set to lead initiatives in bio-nano-based wastewater treatment solutions. She is engaged in industry-focused projects involving effluent characterization, environmental management systems, and compliance with national standards. She has acquired B.Sc. Honours from Gargi College, Delhi University, Delhi followed by M.Sc. in Environmental Sciences from J. C. Bose University of Science and Technology, YMCA, Faridabad. Her area of interest are water treatment, industrial effluent treatment, and bioremediation. She has also attended several National and International conferences, seminars, workshops and successfully published many research papers in reputed peer reviewed international journals.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. Harsh Pipil, Akansha Gupta, **Shivani Yadav**, Sunil Kumar, Anil Kumar Haritash (2025). Integrating oxidation system for degradation of 4-Chlorphenol: Exergy analysis and optimization. *Journal of the Indian Chemical Society, 102, 101481.* https://doi.org/10.1016/j.jics.2024.101481. Impact Factor (JCR 2024): 3.4

SONAM TANEJA

Department of Environmental Science and Engineering



AWARD SUMMARY

Commendable Research Award

Sonam Taneja holds a Ph.D. degree in Environmental Science and Engineering from Delhi Technological University. Her doctoral research focussed on optimizing a cost- and time- effective remediation strategy for metal-contaminated soils using Electrokinetic Technology. During her doctoral research, she also worked on a funded project to design a method for electrokinetic remediation of mining waste at Çanakkale Onsekiz Mart University in Türkiye for six months. She has authored eight peer-reviewed research articles in reputed SCI-indexed international journals, six conference proceedings and a book chapter, with a total of 200 citations. She has qualified UGC NET-JRF (2020) in Environmental Sciences. She holds a Master's degree in Environmental Sciences from J.C. Bose University of Science and Technology, YMCA, Faridabad, and a Bachelor's degree in Life Sciences from the University of Delhi. She is currently working as a guest faculty at Ramanujan College, University of Delhi. Her areas of interest include environmental monitoring, soil sustainability, and health risk assessment.

PUBLICATION DETAILS

1. **Sonam Taneja**, Öznur Karaca, Anil Kumar Haritash (2025). Technological Optimization, Health Risk Reduction, and Economic Analysis of Electrokinetic Remediation of Cadmium-contaminated Soil. *Water, Air, & Soil Pollution, 236(7), 399.* https://doi.org/10.1007/s11270-025-08052-5. Impact Factor (JCR 2024): 3.0

Department of

Information Technology

ABHISHEK VERMA

Department of Information Technology



AWARD SUMMARY

Award for Submission of Ph.D. Thesis within Stipulated Period

Commendable Research Award

Dr. Abhishek Verma is an Assistant Professor in the Department of Computer Science and Engineering at Madan Mohan Malaviya University of Technology, Gorakhpur. He earned his Ph.D. in Information Technology from Delhi Technological University, completing his thesis in just 2.4 years under the supervision of Prof. Dinesh Kumar Vishwakarma and Dr. Virender Ranga. His doctoral research led to five journal publications, five published patents, and four international conference papers. His research interests include deep learning, computer vision, and geospatial data analysis, with applications in air pollution forecasting, wildfire risk detection, and satellite-based remote sensing. He was honoured with the Commendable Research Award (2024) from DTU for his contributions. Dr. Verma is committed to developing AI-driven solutions for environmental and societal challenges, while actively mentoring the next generation of engineers and researchers.

PUBLICATION DETAILS

1. **Abhishek Verma**, Virender Ranga, Dinesh Kumar Vishwakarma (2025). Investigating the performance vs. computational complexity tradeoff in cross-domain fire risk detection. *Signal, Image and Video Processing, 19(9), 713.* https://doi.org/10.1007/s11760-025-04348-5. Impact Factor (JCR 2024): 2.1

ANKIT YADAV

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Dr. Ankit Yadav is an Assistant Professor in the Department of Information Technology at Delhi Technological University and a researcher specializing in artificial intelligence, deep learning, and computer vision. His research contributions are primarily focused on multimedia forensics, deepfake detection, medical image analysis, and intelligent imagebased recognition systems. His doctoral research centered on deep learning-based multimedia manipulation detection, in which he developed novel neural network architectures for identifying forged and tampered visual content. Dr. Yadav has contributed to several interdisciplinary research domains, including deepfake detection, disaster image assessment, and hate speech detection using artificial intelligence techniques. His work consistently emphasizes the design of computationally efficient, application-oriented, and high-performing deep learning frameworks for socially and technologically significant problems. His broader research interests include attention mechanisms, lightweight neural architectures, and trustworthy AI systems.

PUBLICATION DETAILS

1. Varun Gupta, Vaibhav Srivastava, **Ankit Yadav**, Dinesh Kumar Vishwakarma, Narendra Kumar (2025). FreqFaceNet: an enhanced transformer architecture with dual-order frequency attention for deepfake detection. *Applied Intelligence, 55(7), 477.* https://doi.org/10.1007/s10489-024-06168-5. Impact Factor (JCR 2024): 3.5

ASHI AGARWAL

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Ms. Ashi Agarwal is a Ph.D Scholar in the Department of Information Technology at Delhi Technological University (DTU), Delhi. She holds an M.Tech degree from the Global Institute of Technology (GIT), Jaipur, affiliated with Rajasthan Technical University, Kota, and a B.Tech degree from CGI, Bharatpur, also under Rajasthan Technical University. Her core research interests lie in the domains of Computer Vision and Deep Learning, with a focus on developing intelligent systems capable of solving real-world problems through advanced AI techniques. Through her work, she aims to bridge the gap between theoretical advancements in AI and practical applications that benefit society. Alongside her research pursuits, she serves as an Assistant Professor in the Department of Computer Science and Engineering at ABES Engineering College, Ghaziabad, where she actively contributes to academic excellence and student development.

PUBLICATION DETAILS

1. **Ashi Agarwal**, Seba Susan (2025). Attention-augmented squeeze-and-excitation enhanced mobile network for occluded facial expression recognition in resource-constrained environments. *Signal, Image and Video Processing, 19(9), 687.* https://doi.org/10.1007/s11760-025-04278-2. Impact Factor (JCR 2024): 2.1

BHAVANA VERMA

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Bhavana Verma received her B.Tech and M.Tech degrees in Computer Science and Engineering from Kurukshetra University, Kurukshetra, Haryana. She is currently pursuing her Ph.D. in the Department of Information Technology at Delhi Technological University under the supervision of Dr. Priyanka Meel and Prof. Dinesh Kumar Vishwakarma. Her research focuses on Artificial Intelligence, with a particular emphasis on multimodal sentiment and emotion recognition. Her work explores advanced deep learning techniques for integrating multiple modalities such as text, audio, and visual information to better understand human emotions. Her broader research interests include multimodal machine learning, natural language processing, graph-based deep learning, and generative AI.

PUBLICATION DETAILS

1. **Bhavana Verma**, Priyanka Meel, Dinesh Kumar Vishwakarma (2025). Navigating sentiment analysis through fusion, learning, utterance, and attention Methods: An extensive four-fold perspective survey. *Engineering Applications of Artificial Intelligence, 156, 111195.* https://doi.org/10.1016/j.engappai.2025.111195. Impact Factor (JCR 2024): 8.0
2. **Bhavana Verma**, Priyanka Meel, Dinesh Kumar Vishwakarma (2025). MHAM: a novel framework for multimodal sentiment analysis in memes. *Knowledge and Information Systems, 67, 10355-10394.* https://doi.org/10.1007/s10115-025-02535-x. Impact Factor (JCR 2024): 3.1

DEEPAK DAGAR

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Deepak Dagar received his B.Tech degree in Software Engineering from Delhi Technological University (DTU), Delhi, in 2014 and M.Tech from Netaji Subhas Institute of Technology (NSIT), Delhi, in 2016. He has worked in Bombardier Transportation Private Limited from 2016- 2019 as software testing engineer and software test lead. He pursued his part-time Ph.D. from the IT department of Delhi Technological University, Delhi in 2024. The topic of his dissertation is Development of framework for Deepfake Detection in Multimedia Data. His current interests include, deep learning, computer vision, deepfake multimedia generation and detection.

PUBLICATION DETAILS

1. **Deepak Dagar**, Dinesh Kumar Vishwakarma (2025). A noise and edge extraction-based dual-branch method for shallowfake and deepfake localization. *Signal, Image and Video Processing, 19(3), 198.* https://doi.org/10.1007/s11760-024-03775-0. Impact Factor (JCR 2024): 2.1

DINESH KUMAR VISHWAKARMA

Department of Information Technology



AWARD SUMMARY

Award for Submission of Ph.D. Thesis within Stipulated Period

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dinesh Kumar Vishwakarma received the Ph.D. degree in the field of Computer Vision and Machine Learning from Delhi Technological University, New Delhi, India, in 2016. He is currently a Professor and Head, the Department of Information Technology, Delhi Technological University. His current research interests include Computer Vision, Deep/Machine Learning, Sentiment Analysis, Fake News Detection, Multimedia Data Analytics, Deepfake Detection and Crowd Behaviour Analysis. He received research excellence awards from the Delhi Technological University in the years 2017-2024. He is Associate Editor of IEEE Transactions on Circuits Systems for Video Technology. He has been featured among top 2% scientist of the world by Stanford University in the year 2025-2021. He is a reviewer of various journals/transactions of the ACM, IEEE, Elsevier, and Springer. He is a senior member of IEEE, Member of Association for Computing Machinery, and a lifetime member of ISTE.

PUBLICATION DETAILS

1. Deepak Dagar, **Dinesh Kumar Vishwakarma** (2025). Frequency-spatial feature integration with boundary-aware learning for image tampering detection. *Signal, Image and Video Processing, 19(17), 1424.* https://doi.org/10.1007/s11760-025-05003-9. Impact Factor (JCR 2024): 2.1
2. Ananya Pandey, **Dinesh Kumar Vishwakarma** (2025). Aspect-based multimodal sentiment analysis via employing visual-to-emotional-caption translation network using visual-caption pairs. *Language Resources and Evaluation, 59, 2945-2972.* https://doi.org/10.1007/s10579-025-09824-5. Impact Factor (JCR 2024): 1.8
3. Ashish Bajaj, **Dinesh Kumar Vishwakarma** (2025). Inflect-text: a novel mechanism to evade neural text classifiers by leveraging word inflectional perturbations. *International Journal of Information Security, 24(1), 70.* https://doi.org/10.1007/s10207-025-00986-5. Impact Factor (JCR 2024): 3.2

KAPIL SHARMA

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Dr. Kapil Sharma is a Professor in the Department of Information Technology at Delhi Technological University with over 13 years of experience in academia and research. His expertise spans Software Engineering, Software Reliability, Evolutionary Computing, Swarm Intelligence, and Digital Twin. Prof. Sharma has authored/co-authored several books published by leading publishers. He holds multiple patents, including US and Indian patents, in the field of Software Engineering and Intelligent Systems. He has actively contributed to various national and international research projects and has presented his work at prestigious conferences worldwide. Additionally, he serves as a reviewer for reputed journals and has been involved in various academic and research initiatives.

PUBLICATION DETAILS

1. Vikas Sharma, Akshi Kumar, **Kapil Sharma** (2025). Digital twin: securing IoT networks using integrated ECC with blockchain for healthcare ecosystem. *Knowledge and Information Systems, 67, 2395-2426.* https://doi.org/10.1007/s10115-024-02273-6. Impact Factor (JCR 2024): 3.1

LAKSHITA AGARWAL

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Lakshita Agarwal has been a Research Scholar (Ph.D.) in the Department of Information Technology at Delhi Technological University. She has received the degree in Maters of Technology (M. Tech.) in Computer Engineering from College of Technology, G. B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand, India. She has also pursued her Bachelor of Technology (B. Tech.) in Computer Science and Engineering, from College of Engineering Roorkee (COER), Roorkee, Uttarakhand, India. She has her main research interest areas are in the field of Computer Vision, Deep Learning, Artificial Intelligence, Natural Language Processing and Computer Networks.

PUBLICATION DETAILS

1. **Lakshita Agarwal**, Bindu Verma (2025). Enriching image description generation through multi-modal fusion of VGG16, scene graphs and BiGRU. *The Visual Computer, 41, 7027-7047.* https://doi.org/10.1007/s00371-024-03790-9. Impact Factor (JCR 2024): 2.9

MANU NARULA

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Dr Manu Narula is currently working as an assistant professor in the Department of CSE at Maharaja Agrasen Institute of Technology and has completed my doctorate from the Department of Information Technology at Delhi Technological University. His area of research and expertise is “Secure Federated Learning for resource-constrained Data Sensitive Applications.

PUBLICATION DETAILS

1. **Manu Narula**, Jasraj Meena, Dinesh Kumar Vishwakarma (2025). Federated workload-aware quantized framework for secure learning in data-sensitive applications. *Future Generation Computer Systems, 168, 107772.* https://doi.org/10.1016/j.future.2025.107772. Impact Factor (JCR 2024): 6.1

MEENAKSHI SRIVASTAVA

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Meenakshi Srivastava received the B.Tech. degree in computer science and engineering from Dr. A.P.J. Abdul Kalam University, India, M.Tech. degree in information technology from the Madan Mohan Malaviya University, Gorakhpur, India and Pursuing Ph.D. from Department of Information Technology, Delhi Technological University, New Delhi, India. Her current research interests include image processing, Machine Learning, Deep Learning, IoT.

PUBLICATION DETAILS

1. **Meenakshi Srivastava**, Varsha Sisaudia, Jasraj Meena (2025). AgriTL-ViT: A Vision Transformer model with attention techniques for classification of plant leaf disease. *Expert Systems with Applications, 294, 128793.* https://doi.org/10.1016/j.eswa.2025.128793. Impact Factor (JCR 2024): 7.5
2. **Meenakshi Srivastava**, Varsha Sisaudia, Jasraj Meena (2025). A review on internet of things and artificial intelligence based plant disease detection: taxonomy, issues and challenges. *Journal of Plant Diseases and Protection, 132(6), 181.* https://doi.org/10.1007/s41348-025-01184-0. Impact Factor (JCR 2024): 2.2

NIDHI

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Dr. Nidhi is an Assistant Professor in the School of Computer Science Engineering & Technology at Bennett University, Greater Noida. She earned her Doctorate degree from the Department of Information Technology, Delhi Technological University (Formerly known as Delhi College of Engineering), Delhi, India. She received her Bachelor of Technology and Master of Technology in Computer Science from Banasthali Vidyapith, Rajasthan, India. Her area of research interests are computer vision, machine learning, human–computer interaction, and facial emotion recognition.

PUBLICATION DETAILS

1. **Nidhi**, Bindu Verma (2025). In-the-wild facial emotion recognition using relation-aware geometric features and CapsNet. *Computers and Electrical Engineering, 128, 110685.* https://doi.org/10.1016/j.compeleceng.2025.110685. Impact Factor (JCR 2024): 4.9

SAJAL AGGARWAL

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Sajal Aggarwal received his B. Tech degree in Information Technology with a minor in Artificial Intelligence and Machine Learning from Delhi Technological University (Formerly Delhi College of Engineering) in 2024. He was awarded the prestigious Chancellor's Gold Medal by the Hon'ble Lieutenant Governor of Delhi, Shri Vinai Kumar Saxena, for securing the first position in the order of merit among the students of all undergraduate programmes (batch 2020-24). Additionally, he was awarded the Vice Chancellor's Gold Medal and the Dr. Alok Goyal Scholastic Award for Academic Excellence. During the tenure of his undergraduate course, he received several other honours and awards for his distinctive academic performance, including the annual merit scholarship, the Prof. P. Kundu Medal, and the Pramod Jain Merit Scholarship. He is currently pursuing his PhD in Information Technology from Delhi Technological University. His research interests include adversarial attacks, deepfake detection, and multimodal sentiment and hate speech analysis.

PUBLICATION DETAILS

1. **Sajal Aggarwal**, Ananya Pandey, Dinesh Kumar Vishwakarma (2025). Extracting cross-modal semantic incongruity with attention for multimodal sarcasm detection. *Applied Intelligence, 55(12), 877.* https://doi.org/10.1007/s10489-025-06717-6. Impact Factor (JCR 2024): 3.5
2. **Sajal Aggarwal**, Ashish Bajaj, Dinesh Kumar Vishwakarma (2025). HOMOGRAPH: a novel textual adversarial attack architecture to unmask the susceptibility of linguistic acceptability classifiers. *International Journal of Information Security, 24(1), 6.* https://doi.org/10.1007/s10207-024-00925-w. Impact Factor (JCR 2024): 3.2

SEBA SUSAN

Department of Information Technology



AWARD SUMMARY

Cumulative Citation Award (Silver)

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Prof. Seba Susan is a Professor in the Department of Information Technology at Delhi Technological University (DTU). She completed her Ph.D from the Electrical Engineering Department of IIT Delhi in 2014. She was among the top-241 performers out of 5308 in the pedagogy course-ICT for Education & Pedagogy program 2017-conducted by IIT Bombay. Her research areas are Data Mining, Natural Language Processing, Generative models, Computer Vision, Bioinformatics & Biomedical research, with the area of specialization being the development of Soft Computing tools for Pattern Recognition across various modalities (image, speech, text, sensor data). She is a member of the IEEE Computational Intelligence Society, IEEE Signal Processing Society and the IEEE Computer Society and a life member of the Computer Society of India (CSI). She has published more than 160 papers in international journals and conferences. She is listed in Stanford University's top 2% scientists in the world (2024, 2025).

PUBLICATION DETAILS

1. Naresh Kumar, **Seba Susan** (2025). Non-stationary fuzzy time series modeling and forecasting using deep learning with swarm optimization. *International Journal of Machine Learning and Cybernetics, 16, 5569-5587.* https://doi.org/10.1007/s13042-025-02585-1. Impact Factor (JCR 2024): 2.7
2. Ruchi Holker, **Seba Susan** (2025). Generalizable temporal-spectral-spatial quantitative electroencephalogram-based diagnosis of attention-deficit hyperactivity disorder in children. *Signal, Image and Video Processing, 19(12), 1042.* https://doi.org/10.1007/s11760-025-04589-4. Impact Factor (JCR 2024): 2.1

SUNAKSHI MEHRA

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Dr. Sunakshi Mehra is an Assistant Professor in the Department of Computer Science and Engineering at Delhi Technological University (DTU). She earned her Ph.D. in Speech Recognition and Natural Language Processing from DTU in 2024. She completed her M.Tech. in Information Technology from Guru Gobind Singh Indraprastha University (GGSIPU) in 2017 and her B.Tech. in Information Technology from Indira Gandhi Delhi Technical University for Women (IGDTUW) in 2015. Before joining DTU, Dr. Mehra served as a contractual faculty member at GGSIPU and as a permanent faculty member at Galgotias College of Engineering & Technology (GCET). Her research interests include signal processing, computer vision, speech recognition, and natural language processing. She has authored several publications in SCI/SCIE-indexed journals, presented her work at international conferences, and contributed to book chapters and patents. She also serves as a reviewer for various reputed academic journals and conferences.

PUBLICATION DETAILS

1. **Sunakshi Mehra**, Virender Ranga, Ritu Agarwal (2025). Dhivehi Speech Recognition: A Multimodal Approach for Dhivehi Language in Resource-Constrained Settings. *Circuits, Systems, and Signal Processing, 44, 2020-2040.* https://doi.org/10.1007/s00034-024-02915-8. Impact Factor (JCR 2024): 2.0
2. **Sunakshi Mehra**, Virender Ranga, Ritu Agarwal (2025). Evaluating Suprasegmental Features for Phonological Fusion and Spectrogram-Based Speech Command Recognition. *Circuits, Systems, and Signal Processing, 44, 9336-9361.* https://doi.org/10.1007/s00034-025-03231-5. Impact Factor (JCR 2024): 2.0

VIKAS SHARMA

Department of Information Technology



AWARD SUMMARY

Commendable Research Award

Vikas Sharma has been a Research Scholar (Ph.D.) in the Department of Information Technology at Delhi Technological University, Delhi, India. He earned his M.Tech. and B.Tech. in Information Technology from SRM Institute of Science and Technology, Chennai, and is also GATE qualified. His research interests include Digital Twin, Artificial Intelligence, Deep Learning, and Internet of Medical Things (IoMT) for healthcare applications.

PUBLICATION DETAILS

1. **Vikas Sharma**, Akshi Kumar, Kapil Sharma (2025). Next-generation healthcare: Digital twin technology and Monkeypox Skin Lesion Detector network enhancing monkeypox detection - Comparison with pre-trained models. *Engineering Applications of Artificial Intelligence, 145, 110257.* https://doi.org/10.1016/j.engappai.2025.110257. Impact Factor (JCR 2024): 8.0

VIRENDER RANGA

Department of Information Technology



AWARD SUMMARY

Award for Submission of Ph.D. Thesis within Stipulated Period

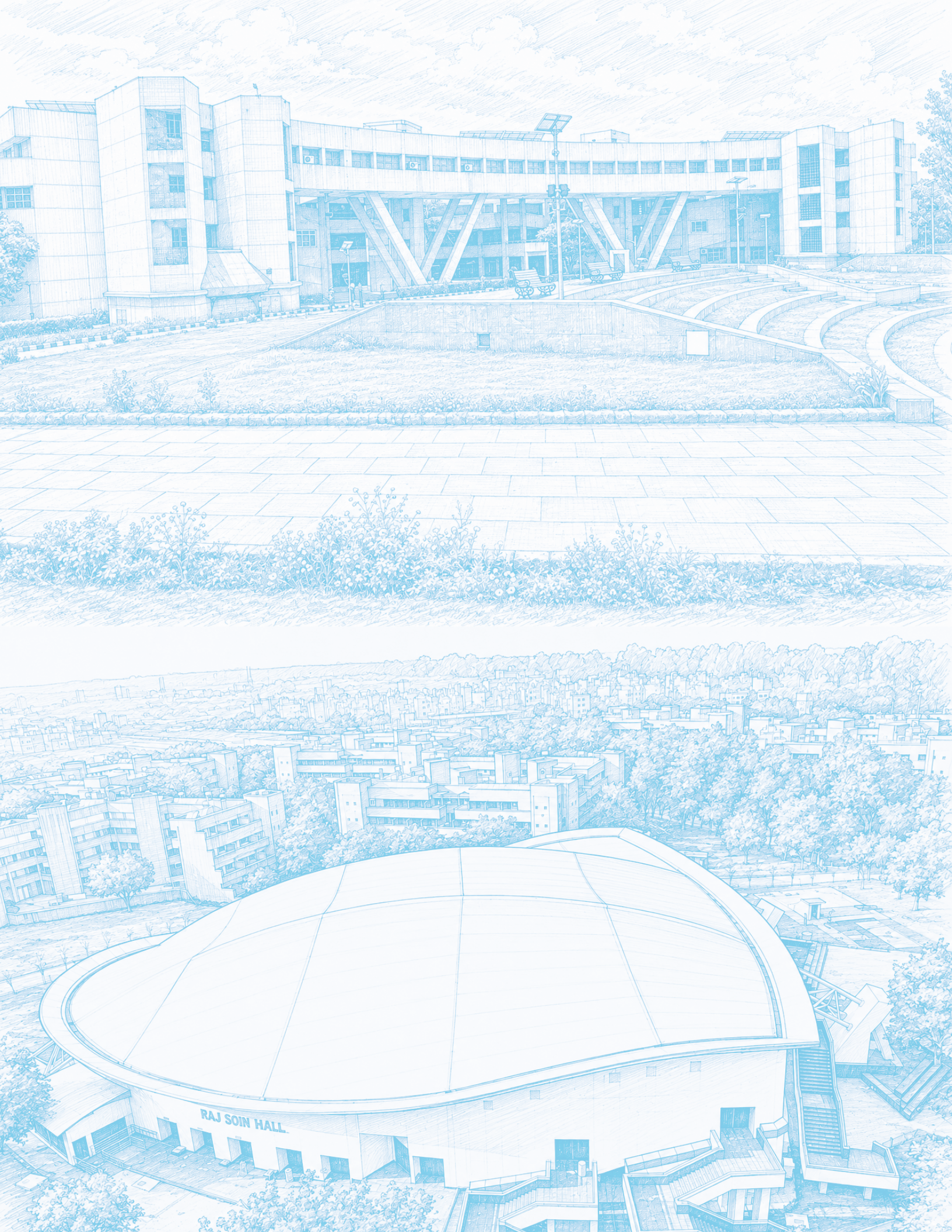
Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Dr. Virender Ranga has received his Ph.D. degree in Feburary 25, 2016 from Computer Engineering Department of National Institute of Technology, Kurukshetra, Haryana, India followed by M.Tech. and B.Tech. degrees. Currently, he is working as Associate Professor in Information Technology Department of Delhi Technological University, Delhi since October 26, 2021. Previously , he worked as Assistant Professor with Computer Engineering Department, National Institute of Technology Kurukshetra, Haryana, India since March 20, 2008 to October, 25 2021. He has published more than 150 research papers in various SCI/SCIE/SCOPUS/ESCI/INSPEC Journals and in various reputed International Conferences in the area of Computer Communications and Computer Security. He has also published two text books with Paging Publishers, New Delhi on Computer Application in Pharmacy. He has been conferred by Young Faculty Award in 2016 for his excellent contributions in the field of Computer Communications. He has been acted as member of various TPCs in various International conferences of repute. He is a member of editorial board of various reputed journals like Journal of Applied Computer Science & Artificial Intelligence, International Journal of Advances in Computer Science and Information Technology (IJACSIT), Circulation in Computer Science (CCS), International Journal of Bio Based and Modern Engineering (IJBBME) and International Journal of Wireless Networks and Broadband Technologies. He acted as Guest Editor for a special issue published by International Journal of Sensors, Wireless Communications and Control (Bentham Science Publication). He is acting as Bentham Science Ambassador of Asia Region. He is an active reviewer of many reputed journals like various IEEE Transaction journals, Springer journals, Elsevier journals, Taylor & Francis journals, Wiley journals and InderScience journals. His research area includes Wireless Sensor & Ad-hoc Networks Security, IoT security, FANET security, SDN security, IoRT, Blockchain, ITS, Machine Lesarning solutions in various areas, etc.

PUBLICATION DETAILS

1. Anita Thakur, **Virender Ranga**, Ritu Agarwal (2025). Exploring the Transformative Impact of Blockchain Technology on Healthcare: Security, Challenges, Benefits, and Future Outlook. *Transactions on Emerging Telecommunications Technologies, 36(3), e70087.* https://doi.org/10.1002/ett.70087. Impact Factor (JCR 2024): 2.5
2. Anita Thakur, **Virender Ranga**, Ritu Agarwal (2025). Revocable and Privacy-Preserving CP-ABE Scheme for Secure mHealth Data Access in Blockchain. *Concurrency and Computation: Practice and Experience, 37(9-11), e70064.* https://doi.org/10.1002/cpe.70064. Impact Factor (JCR 2024): 1.5


RAJ SOIN HALL

Department of

Mechanical Engineering

AKHILESH ARORA

Department of Mechanical Engineering



Dr Akhilesh Arora is working as Professor in Department of Mechanical Engineering since 2004. He has published more than 100 research papers in National and International conferences and Journals. He has also authored a book on Alterantives in refrigeration and Air-conditioning. He has guided ten research scholars for their PhD and presently supervising the five students.

AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

ANIL KUMAR

Department of Mechanical Engineering



Dr. Anil Kumar is a Professor in the Department of Mechanical Engineering at Delhi Technological University (DTU), Delhi, India, and Head of the Division–Clean Energy at the Nodal Centre of Excellence in Energy Transition (NCEET). He serves as Associate Editor of the Journal of Engineering for Sustainable Buildings and Cities (ASME), Editorial Board Member of Solar Energy Advances (Elsevier), and Honorary Board Member of Green Initiative DWC LLC, UAE. He is also a Research Fellow at NERPS, Hiroshima University, Japan. He earned his Ph.D. in Solar Energy from IIT Delhi (2007) and completed postdoctoral research in Energy Technology at Prince of Songkla University, Thailand. His expertise includes clean energy technology, solar applications, energy economics, heat transfer, and environmental sustainability. Dr. Kumar has published over 278 journal papers and 92 conference papers, with 13,400+ citations (hindex 64, Google Scholar). He has authored 13 books, holds 4 granted and 10 published patents, and has supervised 20 Ph.D. and 45 master's students. He is a Fellow and Chartered Engineer of The Institution of Engineers (India) and is listed among Stanford University's Top 2% Scientists. He has received several prestigious awards, including Platinum and Gold Cumulative Citation Awards (DTU) and the Outstanding Researcher Award (2021).

AWARD SUMMARY

Premier Research Award

Commendable Research award

PUBLICATION DETAILS

Premier Research Award

1. Anand Kushwah, **Anil Kumar** (2025). Evaluating Drying Behavior and Efficiency in Varied Shaped Samples Using Solar Drying: A Morphological and Kinetic Study. *Journal of Thermal Science and Engineering Applications, 17(2), 021001.* https://doi.org/10.1115/1.4067074. Impact Factor (JCR 2024): 1.4
2. Niranjan Sahoo, **Anil Kumar** (2025). Greenhouse Gas Mitigation Potential Through Clean Energy for Cement Production in India. *Journal of Solar Energy Engineering, 147(1), 011009.* https://doi.org/10.1115/1.4065977. Impact Factor (JCR 2024): 1.9

Commendable Research Award

1. **Anil Kumar** Yadav, Shailendra Sinha, **Anil Kumar** (2025). Techno-economic and environmental analysis of hybrid SOFC-GT-sCO2 systems for sustainable energy generation. *International Journal of Hydrogen Energy, 120, 558-571.* https://doi.org/10.1016/j.ijhydene.2025.03.238. Impact Factor (JCR 2024): 8.3
2. Kyu Tin, Wirach Taweepreda, **Anil Kumar** (2025). Current trends and future prospects of hydrogen production from coconut waste. *International Journal of Hydrogen Energy, 164, 150782.* https://doi.org/10.1016/j.ijhydene.2025.150782. Impact Factor (JCR 2024): 8.3

ASEEM DUBEY

Department of Mechanical Engineering



Aseem Dubey completed his PhD in Mechanical Engineering from Delhi Technological University in the year 2025. His research interests are phase change materials for energy storage, solar distillation, heat transfer enhancement, and post combustion carbon capture. He has published 12 SCI indexed research papers in international journals of repute, 08 conference papers, and holds multiple patents. He serves as Editorial Board Member in Scientific Reports journal (Springer Nature).

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. **Aseem Dubey**, Akhilesh Arora (2025). Performance analysis of hybrid solar still integrated with phase change material and evacuated tube collector under forced circulation. *Applied Thermal Engineering, 277, 127068.* https://doi.org/10.1016/j.applthermaleng.2025.127068. Impact Factor (JCR 2024): 6.9

ASHAD AHMAD

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

A dedicated research scholar specialising in Battery Thermal Management Systems (BTMS) for electric vehicles, currently working in the Department of Mechanical Engineering (MED) since January 1, 2024. Research focuses on improving the thermal performance, safety, and lifespan of lithium-ion batteries through energy-efficient cooling strategies. Work includes air and liquid cooling techniques, heat pipe-based systems, and the application of artificial intelligence and machine learning for predictive thermal control. Additional interests include thermoelectric energy conversion and heat recovery systems. Future research aims to leverage AI and ML for smart battery diagnostics, predictive maintenance, and advanced thermal management. Committed to contributing to sustainable energy solutions and next-generation electric mobility technologies.

PUBLICATION DETAILS

1. **Ashad Ahmad**, Anil Kumar (2025). Review on role of phase change materials in improving efficiency and sustainability of indirect solar drying. *Journal of Energy Storage, 140, 118978.* https://doi.org/10.1016/j.est.2025.118978. Impact Factor (JCR 2024): 9.8

ASHOK KUMAR SINGH

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Ashok Kumar Singh did his Ph.D. in 2022 at Mechanical Engineering Department, specializing in Thermal Engineering from Delhi Technological University, Delhi. He has received his B.Tech. Degree from Uttar Pradesh Technical University, Lucknow (presently AKTU, Lucknow) in Mechanical Engineering in 2007 and M.Tech. from Maharshi Dayanand University, Rohtak, Haryana, in Manufacturing Technology and Automation in 2010. Dr. Ashok Kumar Singh has teaching experience of about 18 years and published more than 60 SCI and SCOPUS indexed papers in reputed International Journals and Conferences. Dr. Singh received "Commendable Research Award – 2020, 2021, 2022 & 2023" in 2021, 2022, 2023 and 2024, respectively, from Delhi Technological University, Delhi, and also featured in the list of "World Ranking of Top 2% Scientists" in the 2022 and 2025 database created by the experts at Stanford University, United States of America and published by Elsevier. His research areas of interest are solar thermal, solar desaltification, drying and heating systems, PV, agrivoltaics and renewable energy technology.

PUBLICATION DETAILS

1. **Ashok Kumar Singh**, Samsher (2025). Parametric analysis of evacuated annular parabolic solar receiver integrated solar stills: a relative optimization approach. *Environment, Development and Sustainability, 27, 19121-19149.* https://doi.org/10.1007/s10668-024-04709-z. Impact Factor (JCR 2024): 4.2

AVINASH YADAV

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

I am Avinash Yadav, Research Scholar in the department of Mechanical Engineering. I am doing research in the field of solar energy.

PUBLICATION DETAILS

1. **Avinash Yadav**, Anil Kumar, Manjunath K. (2025). Performance impact of environmental and operational factors on solar photovoltaic panels. *Environmental Progress & Sustainable Energy, 44(6), e70062.* https://doi.org/10.1002/ep.70062. Impact Factor (JCR 2024): 2.3

DHRUV KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dhruv Kumar is a full-time regular research scholar in the Department of Mechanical Engineering, Delhi Technological University (DTU) Delhi. He has earned his M.Tech. Degree in Manufacturing Engineering specialization from National Institute of Technology, Warangal and B. E in Mechanical Engineering from Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal Madhya Pradesh. With over 10 years of teaching, Industry and research experience, his academic interests have authored and published numerous research papers in reputed SCI and Scopus-indexed journals. He has also presented and published multiple research papers in reputed national and international conferences. His research interest lies in the field of Advanced Welding Process, Additive Manufacturing, Composites, Advanced Manufacturing Techniques and Machining and Micromachining of Superalloys.

PUBLICATION DETAILS

1. **Dhruv Kumar**, Vipin, Reeta Wattal (2025). Hybrid wire arc additive manufacturing techniques for Ti–6Al–4V functional components. *Journal of Materials Science, 60, 22495-22530.* https://doi.org/10.1007/s10853-025-11720-w. Impact Factor (JCR 2024): 3.9

DURVESH YADAV

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Durvesh is a Ph.D. scholar in mechanical engineering at Delhi Technological University, specializing in fluid mechanics and turbomachinery, with expertise in computational fluid dynamics (CFD). Her academic background includes an M.Tech. in Hydropower Engineering from MANIT, Bhopal, and a B.Tech. from Uttar Pradesh Technical University. Her research focuses on developing advanced CFD models for the design optimization and performance enhancement of multistage centrifugal pumps. Her expertise integrates response surface methodology with fluid flow analysis, bridging technical proficiency across both the mechanical and hydropower engineering domains.

PUBLICATION DETAILS

1. **Durvesh Yadav**, Raj Kumar Singh, K. Manjunath (2025). Response surface method-based hydraulic performance optimization of a single-stage centrifugal pump. *International Journal for Numerical Methods in Fluids, 97, 20-43.* https://doi.org/10.1002/fld.5332. Impact Factor (JCR 2024): 1.8

FADIA AHMED ABDULLAH NAJI

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Fadia Ahmed Naji has completed her Bachelor's degree in Industrial Manufacturing and Systems Engineering (IMSE) from Taiz University, Taiz, Yemen, and her Master's degree in Engineering and Management from Taiz University Center of Graduate Studies, Taiz, Yemen. She enrolled in a Ph.D. program in the Department of Mechanical Engineering at Delhi Technological University, Delhi, India, under an ICCR scholarship, under the supervision of Prof. Qasim Murtaza and Prof. M.S. Niranjan. Her work focuses on post-processing machining, MR finishing, Eco-friendly surface modification, thermochemical processing, corrosion, and advanced manufacturing processes. She has expertise in advanced material tribology and surface characterization, including SEM, FESEM, XRD, XPS, and FTIR. She has published 5 SCI/SCIE papers in reputable journals. Through her research, she delves into advanced surface engineering to develop next-generation biomedical implants that combine high performance with environmental sustainability. In addition to her academic background, she has industrial experience as a Head of Planning Engineer in the planning department at Alahlia Mineral Water Company (AMWC) in Yemen.

PUBLICATION DETAILS

1. **Fadia Ahmed Abdullah Naji**, Qasim Murtaza (2025). A novel environmentally friendly thermochemical process for Ti64 alloy surface modification for biomedical implants. *Colloids and Surfaces A: Physicochemical and Engineering Aspects, 706, 135806.* https://doi.org/10.1016/j.colsurfa.2024.135806. Impact Factor (JCR 2024): 5.4
2. **Fadia Ahmed Abdullah Naji**, Qasim Murtaza, Mahendra Singh Niranjan (2025). Sustainable and Optimized Chemical Magneto-Rheological Finishing of Ti64 Alloy for Enhancing Surface Finish Through pH Regulation. *Advanced Engineering Materials, 27(21), 2500525.* https://doi.org/10.1002/adem.202500525. Impact Factor (JCR 2024): 3.3

GAURAV KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

I am a passionate and skilled CFD analyst with over 6 years of experience in various academic projects, such as aerospace, automotive, and renewable energy. I have a strong background in mathematics, physics, and engineering, and I am proficient in using software tools such as ANSYS Fluent, OpenFOAM, and Python. I have successfully completed several projects involving aerodynamics, heat transfer, multiphase flow, and turbulence modeling, and I have published my results in peer-reviewed journals and conferences. I am always eager to learn new techniques and technologies, and I enjoy collaborating with other experts and clients to solve complex problems and deliver highquality solutions. I am looking for new opportunities to apply my CFD skills and knowledge to challenging and innovative projects that can make a positive impact on the world.

PUBLICATION DETAILS

1. Vidhit Mandia, Vipul Sharma, Yash Chandra, **Gaurav Kumar**, Raj Kumar Singh (2025). Optimizing Winglet Cant Angle for Enhanced Aircraft Wing Performance Using CFD Simulation and Hybrid ANN-GA. *International Journal for Numerical Methods in Fluids, 97, 211-223.* https://doi.org/10.1002/fld.5341. Impact Factor (JCR 2024): 1.8

GAURAV DHINGRA

Department of Mechanical Engineering



I am a dedicated Ph.D. scholar at Delhi Technological University, pursuing advanced research under the prestigious AICTE Doctoral Fellowship (ADF) Scheme. My academic journey is driven by a strong commitment to sustainable innovation and clean energy solutions. Currently, I am actively engaged in research at the Green Energy Lab, where my work focuses on the development and optimisation of solar-based essential oil extraction systems. My research aims to integrate renewable energy technologies with efficient extraction processes, contributing to environmentally friendly and economically viable alternatives for the agro-industrial sector. With a keen interest in solar thermal systems, energy efficiency, and process optimisation, I strive to bridge the gap between theoretical research and real-world applications. My work not only supports the advancement of green technologies but also aligns with global sustainability goals. Through my research, I aspire to contribute meaningful innovations in the field of renewable energy and promote sustainable practices that benefit both industry and society.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. Gourav Dhingra, Anil Kumar (2025). Carbon Capture and Sequestration: Cutting-Edge Technologies to Combat Climate Change. *Sustainable Energy Technologies and Assessments, 75, 104226.* https://doi.org/10.1016/j.seta.2025.104226. Impact Factor (JCR 2024): 7.0

GIRISH KUMAR

Department of Mechanical Engineering



Dr. Girish Kumar is a Professor in the Department of Mechanical Engineering at Delhi Technological University. He currently serves as the Dean of Research & Development and Director of the Center for Community Development and Research. With over 29 years of experience in teaching and research, Dr. Kumar specializes in Reliability Engineering, Maintenance Management, Stochastic Modeling, Optimization, and Quality Engineering. He has authored more than 80 high-quality research articles published in reputed international journals.

AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

HUSSAM SADIQUE

Department of Mechanical Engineering



Dr. Hussam Sadique is currently working as a Lecturer in the Department of Science, Technology and Technical Education, Government of Bihar. He completed his B.Tech. in Mechanical Engineering and pursued his M.Tech. in Thermal Sciences (Mechanical Engineering). He obtained his Ph.D. from Delhi Technological University (DTU), Delhi. His doctoral research, titled "Numerical Investigation of Fractal-Shaped Microchannel Heat Sink (MCHS)", focused on enhancing thermal management systems through advanced microchannel geometries and numerical analysis. His research interests include microfluidics, heat transfer, and computational fluid dynamics (CFD), with particular emphasis on improving the performance of microchannel heat sinks for high heat flux applications. Through his work, he has explored innovative fractal geometries and fluid flow behavior to achieve efficient thermal management in compact systems.

AWARD SUMMARY

Commendable Research Award

PUBLICATION DETAILS

1. **Hussam Sadique**, Samsher, Qasim Murtaza (2025). Numerical study and moth flame optimization of thermal–hydraulic performance of fractal microchannel heat sink with ribs and cavity. *International Journal of Heat and Fluid Flow, 113, 109777.* https://doi.org/10.1016/j.ijheatfluidflow.2025.109777. Impact Factor (JCR 2024): 3.1

INDRA JEET SINGH

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

I, Dr. Indra Jeet Singh, completed my Ph.D. in Mechanical Engineering from Delhi Technological University. My research focuses on advanced manufacturing, particularly additive manufacturing and welding process optimization. During my doctoral studies, I published six SCI-indexed and three ESCI-indexed journal papers and hold one patent, reflecting the innovation and impact of my research. I also have hands-on expertise in welding process simulation using Simufact Welding. My work integrates experimental research and computational modeling to improve welding performance and manufacturing efficiency for advanced engineering applications.

PUBLICATION DETAILS

1. **Indra Jeet Singh**, Qasim Murtaza, Paras Kumar (2025). Effect of CMT Welding Process Parameters on the Microstructural and Mechanical Properties of Dissimilar Aluminum Alloys of AA8011 and AA6061. *Transactions of the Indian Institute of Metals, 78(1), 3.* https://doi.org/10.1007/s12666-024-03471-0. Impact Factor (JCR 2024): 1.6
2. **Indra Jeet Singh**, Qasim Murtaza, Paras Kumar (2025). Optimization of Process Parameters and Microstructural Analysis of CMT Welded Joints of Dissimilar Aluminum Alloys. *JOM, 77, 10124-10144.* https://doi.org/10.1007/s11837-025-07871-5. Impact Factor (JCR 2024): 2.3

KAMLA KANT

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

I am kamla kant a PhD scholar of DTU, i have published two SCIE papers in journal of thermal analysis and calorimetry under Springer nature of publisher, which comes under the award list of DTU.

PUBLICATION DETAILS

1. **Kamla Kant**, R. C. Singh, S. Maji (2025). Opportunities to improve the lubrication, fuel efficiency, and emission reduction using nanotechnologies: a review. *Journal of Thermal Analysis and Calorimetry, 150(5), 3173–3199.* https://doi.org/10.1007/s10973-025-14018-w. Impact Factor (JCR 2024): 3.1
2. **Kamla Kant**, R. C. Singh, S. Maji (2025). Role of nanomaterials as engine oil additives to minimize friction, wear, and fuel consumption and increase the working life of interacting components in IC engines: a review. *Journal of Thermal Analysis and Calorimetry, 150, 17133-17155.* https://doi.org/10.1007/s10973-025-14680-0. Impact Factor (JCR 2024): 3.1

MANISH KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Manish Kumar is an academic and researcher in the field of Mechanical Engineering, specializing in internal combustion engines, alternative fuels, and emission reduction technologies. He completed his Ph. D. in Mechanical Engineering in March 2026 from Delhi Technological University (formerly Delhi College of Engineering). Dr. Kumar completed his M.Tech in Thermal Engineering from Delhi Technological University and earned his B.Tech in Mechanical Engineering from Dev Bhoomi Institute of Technology, affiliated with Uttarakhand Technical University. His research interests include internal combustion engines, biofuels, renewable fuels, engine performance optimization, and emission reduction strategies. Dr. Kumar has published more than 20 research papers indexed in SCI/SCIE and Scopus journals. His research contributions have received significant recognition, with a total of 324 citations and an h-index of 8 on Google Scholar. He is currently serving as an Assistant Professor and remains actively engaged in advancing research in alternative fuels and green energy systems.

PUBLICATION DETAILS

1. **Manish Kumar**, Naushad Ahmad Ansari, Raghvendra Gautam (2025). ANN–RSM Synergistic Optimization for CRDI Engine Performance and Emissions Using Novel Waste-Based Biodiesel–Ethanol–Diesel Ternary Blends. *International Journal of Environmental Research, 19(6), 234.* https://doi.org/10.1007/s41742-025-00894-5. Impact Factor (JCR 2024): 3.5

MD GULAM MUSTAFA

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Md. Gulam Mustafa is a mechanical engineer and researcher specializing in computational fluid dynamics (CFD), micromixers, and renewable energy systems. He completed his PhD in Mechanical Engineering from Delhi Technological University, where his research focused on the computational analysis of Newtonian and non-Newtonian fluid mixing in 3D micromixers. He also holds an M.Tech in Renewable Energy Technology from the same institution and a B.Tech in Mechanical Engineering from Jamia Millia Islamia. His research integrates CFD modeling, optimization algorithms, and experimental methods to improve fluid mixing and energy systems. Dr. Mustafa has authored several SCI/SCIE and Scopus-indexed publications in leading international journals.

PUBLICATION DETAILS

1. **Md Gulam Mustafa**, Mohammad Zunaid, Samsher Gautam (2025). Optimizing passive micromixers: Enhancing mixing efficiency through computational fluid dynamics and metaheuristic algorithms. *The Canadian Journal of Chemical Engineering, 103, 3464-3481.* https://doi.org/10.1002/cjce.25566. Impact Factor (JCR 2024): 1.9

MOHIT VISHNOI

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

I, Mohit Vishnoi, completed B. Tech in Mechanical Engineering from Uttar Pradesh Technical University, Lucknow, India, and M.Tech (honors) in Materials Science and Engineering from National Institute of Technology, Tiruchirappalli (Tamil Nadu, India). Currently I am working as an Assistant Professor in the Department of Mechanical Engineering at JSS University, Noida. I was awarded my Ph.D. in December 2024 from Department of Mechanical Engineering at Delhi Technological University, Delhi-42, (India) under the supervision of Prof. Qasim Murtaza and Dr. Paras Kumar. I have published 30 papers in SCI/SCIE journals, 5 in ESCI journals, and 17 in Scopus-indexed journals. I have been honored with the Commendable Research Award at Delhi Technological University, Delhi, for excellence in research—receiving cash prizes of ₹50,000 and ₹1,00,000 along with certificates of merit on March 3, 2022, and September 5, 2024, respectively. In addition, I was awarded the Best Young Researcher Award for outstanding excellence and remarkable achievements in research and publications on January 15, 2024, in Coimbatore.

PUBLICATION DETAILS

1. **Mohit Vishnoi**, Vikrant Singh, Qasim Murtaza, Anuj Bansal, N. Jeyaprakash (2025). Influence of different rare earth oxides on CNC ultrasonic machining of HP-HVOLF sprayed ceramics coating. *Ceramics International, 51, 1233-1246.* https://doi.org/10.1016/j.ceramint.2024.11.104. Impact Factor (JCR 2024): 5.6

NEELAM BAGHEL

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Neelam Baghel is currently serving as an Assistant Professor in the Department of Mechanical Engineering at Dronacharya Group of Institutions, Greater Noida. She completed her Bachelor of Engineering (B.E.) in Mechanical Engineering from Madhav Institute of Technology and Science, Gwalior, followed by a Master of Technology (M.Tech.) with a specialization in Thermal Engineering from Delhi Technological University, Delhi. She subsequently earned her Ph.D. from Delhi Technological University, Delhi, in 2025. She has been honoured with the “Best Program Conducted” award by ITM Gwalior in 2020. She also received the Commendable Research Award from Delhi Technological University in 2024 and 2025. She has published several research papers in reputed national and international journals. Her research interests primarily focus on Solar Photovoltaics and Hybrid Renewable Energy Systems.

PUBLICATION DETAILS

1. **Neelam Baghel**, K. Manjunath, Anil Kumar (2025). Techno-economic analysis of hybrid renewable power generation system under different climatic zones in India. *Electrical Engineering, 107, 8465-8480.* https://doi.org/10.1007/s00202-024-02318-7. Impact Factor (JCR 2024): 1.9
2. **Neelam Baghel**, Anil Kumar, K. Manjunath, Om Prakash (2025). Advancing Local Energy Markets in India: Policy Framework, Regulatory Barriers, and Sustainable Energy Transition. *WIREs Energy and Environment, 14(3), e70013.* https://doi.org/10.1002/wene.70013. Impact Factor (JCR 2024): 6.0

NEERAJ BUDHRAJA

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Neeraj Budhraja is a young and dynamic researcher working in the field of energy and IC engines. His key interest areas are Hydrogen energy, Biofuels like biogas and biodiesel, IC engines, and Environmental pollution reduction. He has 10 SCIE research papers in reputed peer-review international journals, 2 ESCI and 1 SCOPUS research article along with 2 Book chapters in LNME (Springer). He has a patent published on Hydrogen production technology. He has also qualified UGC NET 2017 in Environmental Studies and GATE 2014, 2016, 2019, 2021, 2024 in Mechanical Engineering. He has actively participated and being in the organizing committee of many academic events such as International conferences, workshops, seminars, and faculty development programs.

PUBLICATION DETAILS

1. **Neeraj Budhraja**, Amit Pal, R.S. Mishra (2025). Vortex flow plasma reforming for hydrogen production from atomized water-methanol mixture and parameter optimization using RSM and ANN-GA. *Renewable Energy, 247, 123026.* https://doi.org/10.1016/j.renene.2025.123026. Impact Factor (JCR 2024): 9.1
2. **Neeraj Budhraja**, Amit Pal, R.S. Mishra (2025). Experimental investigation of enhanced hydrogen production from atomised water-methanol mixture in a modified plasma reformer. *Thermal Science and Engineering Progress, 61, 103535.* https://doi.org/10.1016/j.tsep.2025.103535. Impact Factor (JCR 2024): 5.

NITIN SEHRA

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Phd. research scholar in mechanical engineering department under the guidance of Dr. Sushila Rani, Pre Ph.d done on 13th october, 2025.

PUBLICATION DETAILS

1. **Nitin Sehra**, Sushila Rani (2025). Hybrid computational approach for crack growth simulation and fatigue life prediction in low-pressure steam turbine blades. *Journal of Mechanical Science and Technology, 39, 6685-6693.* https://doi.org/10.1007/s12206-025-1015-6. Impact Factor (JCR 2024): 1.7

PANKAJ KUMAR SHARMA

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Pankaj Kumar Sharma is currently working as an Associate Professor and Head of the Department in the Department of Mechanical Engineering at Raj Kumar Goel Institute of Technology, Ghaziabad. He completed his Ph.D. in Mechanical Engineering from the Delhi Technological University, India, in October 2023. He has more than eighteen years of teaching experience in leading institutions in the DelhiNCR region, including Raj Kumar Goel Institute of Technology, Ghaziabad; Noida Institute of Engineering and Technology, Greater Noida; IMS Engineering College, Ghaziabad; and the Indian Institute of Packaging, Delhi. He also worked as an Assistant Engineer at Bhushan Steel Limited, Ghaziabad (now part of Tata Steel). His research interests include mechanics, numerical simulations, reinforcement-based composites, and the forming of laminated composites. He has published more than twenty-three research papers in national and international journals and conferences. He has authored two books and holds three patents. Dr. Sharma has also organized two international conferences and is currently serving as the Principal Investigator (PI) of a DST-funded research project worth ₹1.022 crore.

PUBLICATION DETAILS

1. **Pankaj Kumar Sharma**, Vijay Gautam, Subhajit Konar, Vinita Bhardwaj, Amit Kumar Sharma, Shashi Prakash Dwivedi (2025). Experimental and Numerical Analysis of Springback of AA1050-Fly Ash Green Composite Produced by Stir Casting Technique. *Journal of Materials Engineering and Performance, 34, 30138-30145.* https://doi.org/10.1007/s11665-025-11526-6. Impact Factor (JCR 2024): 2.0

POOJA RANI

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Pooja Rani is a dedicated academic and researcher in Mechanical Engineering with strong expertise in fluid mechanics, and structural analysis. She holds a Ph.D. in Mechanical Engineering from Delhi Technological University, where her research focused on creep-fatigue interaction and remaining life assessment of steam turbine blades using a combination of experimental investigations and advanced numerical simulations. She completed her M.Tech in Design from NIT Kurukshetra and B.Tech in Mechanical Engineering from Y.M.C.A.I.E. Faridabad, building a solid academic foundation. She has 4 years of teaching experience in reputed engineering institutions, where she has taught core subjects such as Thermodynamics, Fluid Mechanics, Heat Transfer, Strength of Materials, and Engineering Mechanics. Her teaching methodology emphasizes conceptual clarity, practical applications, and student engagement, along with mentoring undergraduate and postgraduate projects. Her research interests include supersonic impinging jets, jet-surface interaction, and heat transfer enhancement. She has hands-on expertise in experimental techniques such as flow visualization and SEM,EDAX, along with proficiency in ANSYS and NX5. Pooja has contributed to quality research publications and peer-review activities. She is committed to advancing impactful research while fostering academic excellence through effective teaching and mentorship.

PUBLICATION DETAILS

1. **Pooja Rani**, Atul K. Agrawal (2025). Failure Analysis of Steam Turbine Blades: A Comprehensive Review. *Journal of Vibration Engineering & Technologies, 13(8), 638.* https://doi.org/10.1007/s42417-025-02196-8. Impact Factor (JCR 2024): 2.4

PRABHAT RANJAN

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Prabhat Ranjan is an Assistant Professor in the Department of Mechanical Engineering at GL Bajaj Institute of Technology and Management, Greater Noida, India. He has over 12 years of academic and research experience in the field of mechanical engineering. His research interests include surface engineering, thermal spray coatings, tribology, wear and corrosion behavior of materials, and advanced manufacturing processes. Dr. Ranjan has contributed to several peer reviewed publications in reputed international journals and conferences. His work primarily focuses on improving the durability and performance of engineering components through advanced coating technologies and materials engineering approaches.

PUBLICATION DETAILS

1. **Prabhat Ranjan**, Rajesh Kumar, R S Walia, Vinod Kumar Yadav (2025). Enhancing the durability of cast steel cylinder liners using HVOF sprayed functionally graded coatings. *Physica Scripta, 100, 045010.* https://doi.org/10.1088/1402-4896/adbcff. Impact Factor (JCR 2024): 2.6

PRADEEP KUMAR MEENA

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Pradeep Kumar Meena is currently working as a Technical Assistant in the Central Workshop at the Indian Institute of Technology Delhi, India. He completed his B.Tech from a reputed engineering college in Rajasthan under one of the oldest universities in the state. He obtained his M.Tech from the College of Engineering Pune, one of India's oldest and most prestigious engineering institutions. Mr. Meena is actively involved in research in the areas of sustainable energy, biofuels, hydrogen energy systems, waste-to-energy technologies, and life cycle assessment. He has made significant contributions to the scientific community with an extensive publication record, including 25 papers in SCIE-indexed journals (Q1 and Q2 categories). In addition, he has authored two academic books, one book chapter, and holds two patents—one published and one design patent granted. He has also presented his research in several academic forums, including five international conferences and two national conferences. His research focuses on developing innovative and sustainable solutions for renewable energy production and environmental sustainability.

PUBLICATION DETAILS

1. **Pradeep Kumar Meena**, Amit Pal (2025). A comprehensive review on methane enrichment in biogas through the purification process using biomass-based adsorbents. *Biomass Conversion and Biorefinery, 15, 8287-8309.* https://doi.org/10.1007/s13399-024-05605-2. Impact Factor (JCR 2024): 4.1

PRAVEEN KUMAR SINGH

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Mr Praveen Kumar Singh did B.Tech in Mechanical Engineering from U.P. Technical University, Lucknow, Uttar Pradesh (presently AKTU, Lucknow) in 2011 and M.Tech in Production Engineering from GB Pant Engineering College, Ghurdauri, Pauri Garhwal, Uttarakhand (Uttarakhand Technical University, Dehradun) in 2014, respectively. He completed Ph.D in Mechanical Engineering from Delhi Technological University, India since January 2023 under the guidance of Prof. Vijay Gautam. He has published two SCI/SCIE-indexed papers and three international conference papers. He has three years of teaching experience at leading institutions, including the College of Technology, GBPUAT Pantnagar, Uttarakhand, and AIT Rampur, Uttar Pradesh. His research interests include mechanics, welding, reinforcement-based composites, optimization techniques. and forming of laminated composites.

PUBLICATION DETAILS

1. **Praveen Kumar Singh**, Vijay Gautam (2025). Experimental and Numerical Investigations for Laser Bending of a Three-Ply Clad Sheet Metal. *Transactions of the Indian Institute of Metals, 78(7), 157.* https://doi.org/10.1007/s12666-025-03631-w. Impact Factor (JCR 2024): 1.6

PRAVIN KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Cumulative Citation Award (Silver)

Dr. Pravin Kumar is working as a Professor in the Department of Mechanical Engineering, Delhi Technological University, Bawana Road, Delhi-110042. He has more than 25 years of teaching and research experience. He obtained his Ph.D. degree in Supply Chain Management from IIT Delhi and M. Tech. in Industrial Management from IIT (Banaras Hindu University), Varanasi. His research area is supply chain and operations management. He has published more than 90 research papers in international journals and conferences. His research articles have been published in the journals such as Applied Soft Computing; Annals of Operations Research; Operations Research Forum, Resource Conservation and Recycling, International Journal of Logistics Research and Applications, Case Studies on Transportation Policy, Transportation in Developing Economies, Clean Technology and Environmental Policy; Environment, Development and Sustainability; Journal of Management Analytics, Journal of Modelling in Management, International Journal of Mobile Communications, International Journal of Business Excellence etc. He has also authored a book on engineering economy and management, Wiley India Pvt. Ltd. and another book on Industrial Engineering and Management from Pearson Learning, India. He has been recognized for several academic awards for Top cited papers. He has worked on various administrative positions in the university.

PREM SHANKER YADAV

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Prem shanker Yadav have done B.Tech in Department of Mechanical Engineering from JSS Academy of Technical Education Noida Uttar Pradesh India in the Year 2009; M. Tech in Applied Mechanics Engineering from Indian Institute of Technology, Delhi, India in 2011. Further, he completed Ph,D from Department of Mechanical Engineering Delhi Technological University. His research also exhibits the waste to wealth policy, modification in fuel and heat transfer, solar energy, hydrogen, EV and ammonia. However, the major goal is to enhance net-zero emission policy 2070.

PUBLICATION DETAILS

1. **Prem Shanker Yadav**, Saket Kumar, Raghvendra Gautam (2025). A comprehensive analysis on cost, combustion, performance and emissions for diesel engine fueled with preheated esters of waste cooking oil. *Clean Technologies and Environmental Policy, 27, 2513-2533.* https://doi.org/10.1007/s10098-024-03017-4. Impact Factor (JCR 2024): 3.9

PULIJALA PAWAN KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Pulijala Pawan Kumar is a passionate research scholar and emerging engineer in the field of renewable energy, currently pursuing his PhD at Delhi Technological University since January 2023. His work lies at the intersection of fluid mechanics, sustainable energy systems, and computational modeling, with a primary focus on improving the performance of Savonius hydrokinetic turbines for real-world applications. His research combines experimental investigations, computational fluid dynamics (CFD), and data-driven approaches to understand complex flow behavior and optimize turbine efficiency. He has hands-on experience in conducting controlled flume experiments, acquiring and analyzing performance data, and validating numerical models through systematic experimental studies. His expertise includes Design of Experiments (DOE), Latin Hypercube Sampling (LHS), and advanced surrogate modeling techniques such as Kriging, enabling efficient exploration of design spaces. Pawan Kumar actively explores modern nature-inspired optimization algorithms and hybrid strategies to enhance key performance metrics such as torque and power coefficient. Beyond technical depth, his work reflects a broader vision of advancing clean and accessible energy solutions, particularly for low-velocity water resources and rural electrification. With a multidisciplinary outlook, strong experimental and analytical skills, and a commitment to impactful research, he continues to contribute toward sustainable and resilient energy systems.

PUBLICATION DETAILS

1. **Pulijala Pawan Kumar**, Raj Kumar Singh (2025). CFD-based optimization of a modified Savonius rotor with hybrid upstream deflector using Kriging surrogates and FA–GWO algorithm. *Ocean Engineering, 342, 123016.* https://doi.org/10.1016/j.oceaneng.2025.123016. Impact Factor (JCR 2024): 5

PUNEET SAINI

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

I am a Mechanical Engineer and DGCA Certified Drone Instructor, currently working as an Assistant Professor at Galgotias University and serving as the Incharge of the Galgotias Centre for Drone Intelligence & Simulation, where I lead initiatives in drone training, UAV research, and applied autonomous systems. I am also pursuing my Ph.D. in Agriculture Robotics at Delhi Technological University (DTU). My research focuses on designing an integrated deep learning and robotic system for real-time weed detection and selective herbicide spraying using delta manipulators, contributing to sustainable, data-driven precision agriculture. With 9.5+ years of academic and research experience, my work spans: UAV-based crop monitoring & remote sensing; Robotic manipulation and mechatronic system design; Deep learning for agricultural image analytics; CAD/CAM and digital manufacturing workflows

PUBLICATION DETAILS

1. **Puneet Saini**, D.S. Nagesh (2025). A review of deep learning applications in weed detection: UAV and robotic approaches for precision agriculture. *European Journal of Agronomy, 168, 127652.* https://doi.org/10.1016/j.eja.2025.127652. Impact Factor (JCR 2024): 5.5

QASIM MURTAZA

Department of Mechanical Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Prof. Qasim Murtaza has been serving as a Professor in the Department of Mechanical Engineering at Delhi Technological University (DTU), Delhi, since 2015. He obtained his Ph.D. in Manufacturing Processes from Dublin City University, Ireland, in 2006 under a prestigious European Union scholarship. He subsequently worked as a Research Associate at Manchester Metropolitan University, United Kingdom, and has undertaken academic and research visits to Germany, the Netherlands, and Iran His major research interests include Precision Engineering, Advanced Manufacturing Processes, Advanced Welding, Metal Coatings, Additive Manufacturing, Advanced Composites, Super-finishing Processes, Tribology, and Remanufacturing. He has guided 28 Ph.D. scholars and supervised more than 50 M.Tech. dissertations. He has published over 300 research papers in reputed international journals and conferences A major institutional contribution of Prof. Murtaza is the establishment of a Tribology Research Centre at DTU under MoU with Siddharth Lube Pvt. Ltd. The centre is aimed at strengthening research, training, industry–academia collaboration, and advanced testing in the field of lubricants, greases, and tribology. Prof. Murtaza is also associated with important funded research projects in indigenous Bastar art, biomedical coatings, waste-management vehicles, and advanced thermal barrier coatings. He is co-editor of the CRC Press book Surface Engineering: Methods and Applications (2022). He holds one granted Indian patent and several published patent applications. His recognitions include Best Paper Awards from Elsevier, Emerald, and Springer, along with the Excellence in Research Awards from DTU. He has also served as Guest Editor for reputed international journals.

RADHEY SHYAM MISHRA

Department of Mechanical Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Prof. (Dr.) R.S. Mishra graduated (B.Tech in Mechanical Engineering) from HBTI Kanpur and did his Ph.D. from IIT Delhi in 1986. He was a research associate at Thapar University, Patiala; a lecturer in mechanical engineering (REC Hamirpur, Himachal); an Asst. Prof. in thermal engineering (PAU Ludhiana); an Asst. Prof. (Mechanical Engg HAU Hisar); an Asst. Professor DCE and Reader at the University of Delhi; and then a professor of Mechanical Engg from 25th April 2005 till date and guided 32 Ph.D.s awarded and 10 in progress. He was a member of the academic council from 27th Oct 2014 and HOD Mechanical Engg (01st Feb 2015-31st Dec 2017) and Dean of Outreach and Extension Activities (01st Jan 2018 to 31st July 2021). He was DRC chairman (Mechanical Engg) from 5th Jan 2015 to 31st July 2021 and is working as a professor of Mechanical Engg to date.

RAJENDRA PRASAD

Department of Mechanical Engineering



AWARD SUMMARY

Premier Research Award

Dr. Rajendra Prasad Meena holds a Bachelor's degree (B.Tech.) in Mechanical Engineering from Maulana Azad National Institute of Technology, Bhopal, India, and a Master's degree (M.Tech.) in (Production) Mechanical Engineering from Malviya National Institute of Technology, Jaipur, India. He has completed his PhD from Delhi Technological University in "Experimental Investigation on Wire Arc Additive Manufacturing of Dissimilar Inconel and Stainless-Steel Alloys Using Cold Metal Transfer Welding" from the Mechanical Engineering Department. His primary research interests encompass Wire Arc Additive Manufacturing (WAAM), high-strength alloys, dissimilar alloys, Cold Metal Transfer Welding (CMT), gas metal arc welding (GMAW), tribological characteristics, and optimization techniques. He has published 12 SCI/SCIE-indexed papers, including 3 ASME (American Society of Mechanical Engineers) Transaction Papers, two international conference papers, and two book chapters. He has also filed a patent on his PhD work. He has worked for two years as an Assistant Professor in the Mechanical Engineering Department at the University School of Automation and Robotics, East Campus, Guru Gobind Singh Indraprastha University, Dwarka, Delhi, India. He is currently working as an Assistant Professor in the Mechanical Engineering Department at Delhi Technological University.

PUBLICATION DETAILS

1. **Rajendra Prasad**, Narayana Yuvaraj, Vipin (2025). Wear Characteristics of Dissimilar SDSS 2507–IN 718 Parts Fabricated by Cold Metal Transfer-Based Wire Arc Additive Manufacturing. *Journal of Tribology, 147(10), 104203.* https://doi.org/10.1115/1.4067555. Impact Factor (JCR 2024): 3.0
2. **Rajendra Prasad**, N. Yuvaraj, Vipin (2025). Ultrasonic Vibration-Assisted Cold Metal Transfer Direct Energy Deposition of Dissimilar SDSS2507–IN718 Alloy Parts: Microstructural and Mechanical Characterization. *Journal of Engineering Materials and Technology, 147(3), 031006.* https://doi.org/10.1115/1.4068135. Impact Factor (JCR 2024): 1.9

RAJESH KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Premier Research Award

Commendable Research Award

Prof. Rajesh Kumar is currently employed as a Professor in the Department of Mechanical Engineering, Delhi Technological University, Delhi. He has completed his B. Tech. in Mechanical Engineering from HBTI Kanpur, and M.E. in Thermal Engineering from IIT Roorkee. He received his Ph.D. from Jamia Millia Islamia, New Delhi in the area of refrigeration and air-conditioning. He has more than 26 years of experience in teaching & Research in the fields of Thermodynamics, Refrigeration & Air conditioning, Renewable energy and Fluid Mechanics. He has guided and guiding more than 23 Ph. D. theses, and 25 M. Tech. He has published more than 70 research papers in reputed international journals of Elsevier, ASME Transactions, ASHRAE Transaction, Wiley, Inderscience, Springer etc. He is also a reviewer of ASME, Elseveir, Inderscience, Springer, Wiley. He is a life member of Solar Energy Society of India and fellow of Institution of Engineers.

PUBLICATION DETAILS

Premier Research Award

1. Abdul Khaliq, **Rajesh Kumar**, Tawfiq Al-Mughanam, Khaled Zeid (2025). Proposal and Evaluation of a Novel Solar Thermal-Driven Cooling-Power Cogeneration System. *Journal of Thermal Science and Engineering Applications, 17(7), 071007.* https://doi.org/10.1115/1.4068339. Impact Factor (JCR 2024): 1.4

Commendable Research Award

1. Abhishek Kumar, **Rajesh Kumar** (2025). Annual energy, exergy, and efficiency analyses for conical solar still combined with N number of evacuated collectors. *Environmental Progress & Sustainable Energy, 44(1), e14527.* https://doi.org/10.1002/ep.14527. Impact Factor (JCR 2024): 2.3

RAJESH KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Rajesh Kumar is a researcher in the field of micro-fluidics with specialization in fluid mechanics and heat transfer. He received his B.Tech in Mechanical Engineering from Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, in 2018, and completed his M.Tech in Mechanical Engineering from National Institute of Technology Durgapur in 2020. He is currently pursuing his Ph.D. at Delhi Technological University, where his research focuses on micro-scale thermal management for high-performance electronic systems. His research primarily investigates heat transfer enhancement in micro-scale systems, particularly in convergent–divergent microchannel heat sinks, using advanced techniques such as hybrid nanofluids, porous media, and micro-pillar structures. His work integrates computational fluid dynamics, machine-learning-based predictive modeling, and multiobjective optimization to enhance cooling capability and reliability of micro-scale thermal management systems. Rajesh Kumar has published two SCI-indexed and three Scopus-indexed journal articles in the area of micro-fluidics and heat transfer. His ongoing research aims to develop optimized microchannel cooling architectures for next-generation electronic and energy systems, contributing to efficient and sustainable thermal management technologies.

PUBLICATION DETAILS

1. **Rajesh Kumar**, Mohammad Zunaid, ashad (2025). Multi-objective optimization of the hydrothermal and exergetic performance of a convergent-divergent microchannel heat sink using ANN, NSGA-II, and TOPSIS algorithms. *Thermal Science and Engineering Progress, 67, 104228.* https://doi.org/10.1016/j.tsep.2025.104228. Impact Factor (JCR 2024): 5.4

RAKESH KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Mr. Rakesh Kumar is currently working as a research scholar in the Department of Mechanical Engineering at Delhi Technological University. His research focuses on laser welding and characterization of Al-Mg-Si aluminum alloys, particularly studying the influence of process parameters and magnesium content on tensile properties and deformation behavior. He has hands-on experience in material characterization techniques such as EBSD, SEM, XRD, and tensile and formability testing. He has authored research papers in reputed journals, including SCIE indexed publications, and has presented several papers at national and international conferences. His research aims to contribute to the development of lightweight and highperformance materials for advanced engineering applications.

PUBLICATION DETAILS

1. **Rakesh Kumar**, Vijay Gautam (2025). Influence of Magnesium Content on Tensile Properties and Deformation Behaviour of Al–Mg–Si Alloy Sheets. *Transactions of the Indian Institute of Metals, 78(2), 51.* https://doi.org/10.1007/s12666-024-03543-1. Impact Factor (JCR 2024): 1.6

RATNESH GUPTA

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Ratnesh Kumar Gupta is a scholar and educator in Mechanical Engineering, currently serving at Delhi Skill and Entrepreneurship University (DSEU), Pusa Campus. He holds a B.Tech from UPTU Lucknow, M.Tech from IIT Delhi, and Ph.D. in Mechanical Engineering Design from DTU. With numerous publications and several authored books—including Theory of Machines, Renewable Energy: Solar and Wind Electrical Systems, and Sustainable Energy: Technologies and Innovations—his work spans mechanical, industrial, and environmental engineering. Previously, he taught at B.S.A. College of Engineering and Technology and served as Assistant Professor with DTTE, Govt. of NCT Delhi. He continues to contribute to research,education and sustainable innovation.

PUBLICATION DETAILS

1. **Ratnesh Kumar Gupta**, Ramesh Chandra Singh (2025). Dynamic Response Experimental Analysis of High-Speed Rotors Equipped with Squeeze Film Dampers Under Varied Point Loading Conditions. *Journal of Vibration Engineering & Technologies, 13(4), 249.* https://doi.org/10.1007/s42417-025-01804-x. Impact Factor (JCR 2024): 2.4
2. **Ratnesh Kumar Gupta**, Ramesh Chandra Singh (2025). Dynamic Experimental Investigation and Optimization of Flexible Rotor Vibration Control using Squeeze Film Damper. *Journal of Vibration Engineering & Technologies, 13(1), 79.* https://doi.org/10.1007/s42417-024-01593-9. Impact Factor (JCR 2024): 2.4

ROHIT SAHU

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Mr. Rohit Sahu is an Assistant Professor in the Department of Mechanical Engineering at G. L. Bajaj Institute of Technology and Management, Greater Noida, India, with over 12 years of teaching experience. He received an Honorary Doctorate (Doctor Honoris Causa) from a healthcare university in Ukraine. He obtained his B.Tech. in Mechanical Engineering from Uttar Pradesh Technical University (now Dr. A.P.J. Abdul Kalam Technical University) and M.Tech. in Manufacturing Science and Technology from Bundelkhand Institute of Engineering and Technology, Jhansi, and is currently pursuing a Ph.D. at Delhi Technological University, Delhi. His research interests include composite materials, unconventional machining, and manufacturing process optimization. He has published 27+ research papers, authored two books, and holds multiple patents including 2 granted patents, 3 design patents, and 7 published patents. He has also completed two student research projects funded by the Council of Science and Technology, Uttar Pradesh (CSTUP) and one consultancy project. He is actively involved in scholarly publishing and editorial activities. He serves as an Editorial Board Member of the International Journal of Experimental Research & Review (2021–2025) and Multidisciplinary Science, both indexed in Scopus. Moreover, he has served as a Guest Editor for several reputed SCI and Scopus-indexed journals, including Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering (SAGE), International Journal of Engine Research (SAGE), Journal of Engineering Research, International Journal of Energy for a Clean Environment, and Informing Science: The International Journal of an Emerging Transdiscipline. International Journal of Integrated Engineering (Penerbit UTHM), He has also contributed as a guest editor and reviewer for several prominent conference proceedings and book series, including Lecture Notes in Mechanical Engineering (Springer), Materials Today: Proceedings, IOP Conference Series: Materials Science and Engineering, AIP Conference Proceedings, Journal of Physics: Conference Series and Material Research Proceeding.

PUBLICATION DETAILS

1. **Rohit Sahu**, Krovvidi Srinivas, Atul Kumar Agrawal (2025). Experimental investigation of reinforcementTiB2, waste glass powder, and CuO on the wear rate, coefficient of friction, and hardness of Al2024 matrix composites. *Applied Physics A, 131(11), 924.* https://doi.org/10.1007/s00339-025-08910-3. Impact Factor (JCR 2024): 2.8

SACHIN KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

I am Sachin Kumar pursuing PhD under the supervision of Prof. Raj Kumar Singh with co-supervisor Prof. Bahni Ray IIT Delhi. I have published 2SCIE with 4 conference paper Scopus Index.

PUBLICATION DETAILS

1. **Sachin Kumar**, Raj Kumar Singh, Bahni Ray (2025). Effect of nozzle shape on bubble column reactor with constant flow rate. *The Canadian Journal of Chemical Engineering, 103(8), 4051–4064.* https://doi.org/10.1002/cjce.25624. Impact Factor (JCR 2024): 1.9

SAKET KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Saket Kumar is a dedicated professional with a background in mechanical engineering, specialized in thermal engineering and experience spanning industries such as semiconductor manufacturing and steel production. He has demonstrated expertise in areas like failure analysis, reliability engineering, quality assessment, and laboratory setup and management. Over the years, he has developed strong project management, analytical, and stakeholder coordination skills. In addition to his industrial experience, Dr. Kumar is actively engaged in research and academic activities, with interests in sustainable technologies, waste management, and renewable energy systems such as alternative fuels combustion and bio-based resource utilization. He has also contributed to conference organization, technical writing, and proposal development, reflecting his commitment to innovation and knowledge dissemination. He has also contributed to innovation-driven engineering research, with a notable output including 5 patents and more than 10 SCI/SCIE research publications, indicating his active involvement in translating theoretical concepts into practical technological solutions. Dr. Saket Kumar has further strengthened his professional profile by obtaining certification courses across multiple domains, reflecting his commitment to continuous learning and interdisciplinary expertise. He has pursued certifications in areas such as Specialization in Machine Learning (ML), which enhances his capability in data-driven analysis and intelligent system development.

PUBLICATION DETAILS

1. **Saket Kumar**, Prem Shanker Yadav, Manish Kumar, Raghvendra Gautam (2025). Multi-aspect assessment and multi-objective optimization of preheated tallow biodiesel-diesel blend as alternate fuel in CI engine. *Environmental Progress & Sustainable Energy, 44(1), e14518.* https://doi.org/10.1002/ep.14518. Impact Factor (JCR 2024): 2.3

SANDEEP KUMAR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Mr. Sandeep Kumar is a Ph.D. scholar in the Department of Mechanical Engineering with research interests in advanced energy systems and thermal engineering. His current research focuses on the development and performance analysis of a Combined Heat and Power (CHP) system integrated with an Organic Rankine Cycle–Vapor Compression Refrigeration (ORC–VCR) system for efficient waste heat recovery and sustainable energy utilization. His work aims to enhance overall energy efficiency by simultaneously generating power and refrigeration from low-grade thermal sources. Mr. Kumar has actively contributed to experimental investigations, system modeling, and performance optimization of hybrid energy systems. He is also involved in laboratory development and academic activities related to engine technology and thermal sciences. His research contributes to the advancement of energy-efficient technologies aligned with sustainable engineering practices. Through his doctoral research, he aims to develop innovative solutions for improving energy utilization and reducing environmental impact in modern thermal systems.

PUBLICATION DETAILS

1. **Sandeep Kumar**, B.B. Arora, Akhilesh Arora (2025). Thermodynamic assessment and optimization of a solar and diesel engine exhaust-driven ORC-VCR system. *International Journal of Refrigeration, 170, 325-339.* https://doi.org/10.1016/j.ijrefrig.2024.11.035. Impact Factor (JCR 2024): 3.8

SHAILENDRA KUMAR GAUR

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

I (Shailendra Kumar Gaur) am a research scholar in the Mechanical Engineering Department and enrolled in PhD in the year 2021 (2K20/PHDME/507). My research work area is thin film deposition of metals such as Cr-Au, In, and Sn and passivation films of materials such as CdTe, ZnS, and CdS. I am working in the Solid State Physics Laboratory, Timarpur, Delhi. I have good experience in the operation and maintenance of thermal evaporation systems. My research work involves deposition of thin films at various deposition conditions (different deposition rates, single layer, multi-layers, etc.) under high vacuum conditions and characterization of thin films for structural, morphological, topographical, mechanical, optical, and electrical properties by X-ray diffraction, scanning electron microscopy, atomic force microscopy, nanoindentation, UV-spectrometer, 4-probe electrical measurements, etc. These optimized thin films are suitable for the fabrication of photovoltaic and optoelectronic devices.

PUBLICATION DETAILS

1. **Shailendra Kumar Gaur**, Ashwani Chaudhary, Qasim Murtaza, R.S. Mishra (2025). Comparative analysis of thermally evaporated nanoscale CdS thin film's structural, morphological, optical and nanomechanical properties. *Journal of Molecular Structure, 1324, 140850.* https://doi.org/10.1016/j.molstruc.2024.140850. Impact Factor (JCR 2024): 4.7
2. **Shailendra Kumar Gaur**, Qasim Murtaza, R. S. Mishra (2025). Comparison of Tin and Indium Thin Film's Structural, Morphological, Adhesion, and Electrical Properties for Ohmic Contact in HgCdTe-Based Infrared Detectors. *Journal of Materials Engineering and Performance, 34, 18502-18515.* https://doi.org/10.1007/s11665-024-10551-1. Impact Factor (JCR 2024): 2.0

SHRIKANT VIDYA

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

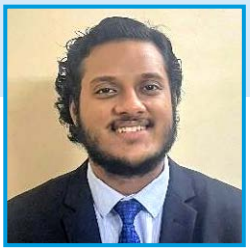
Dr. Shrikant Vidya is currently working as an Associate Professor in the Department of Mechanical Engineering at Galgotias University. A dedicated researcher, teacher and practitioner, he holds a Ph.D. in Mechanical Engineering from Delhi Technological University. He has supervised several B.Tech and M.Tech dissertations. Dr. Shrikant has been involved in research on non-conventional machining, micro machining, micro measurement and additive manufacturing. He has authored many research papers in International Journals and Conferences of repute.

PUBLICATION DETAILS

1. **Shrikant Vidya**, Reeta Wattal, P. Venkateswara Rao (2025). Performance evaluation in die-sinking EDM of polygonal micro cavities over EN-24 alloy steel using cylindrical electrode and polygon cycle approach. *Journal of Engineering Research, 13, 1892-1900.* https://doi.org/10.1016/j.jer.2024.06.006. Impact Factor (JCR 2024): 2.2

SIDDHARTH GARG

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Siddharth Garg is an alumnus of IIM Mumbai (formerly NITIE) (2026 MBA OSCM) and a Delhi Technological University (DTU) (2024 B.Tech Mechanical). He has interned with Asian Paints, Bharat Electronics Limited, UFlex, Flurno, and Fractal across operations, analytics, and manufacturing domains and will be joining ITC as a management trainee this summer. At DTU, he captained Team Raftaar, rebuilding the team and leading it to victory at ASME e-HPVC EFx India 2023. Academically, he has authored multiple peer-reviewed work, including four SCIE-indexed articles, and presented at multiple international conferences. His research interests include additive manufacturing, materials and process optimization, manufacturing systems, operations analytics, industrial governance, and sustainability. Passionate about data-driven supply chain problem-solving, he enjoys table tennis, distance running, and collecting and reading comics.

PUBLICATION DETAILS

1. **Siddharth Garg**, Aditya Singh, Qasim Murtaza (2025). Measuring the Impact of Infill Pattern and Infill Density on the Properties of 3D-Printed PLA via FDM. *Journal of Materials Engineering and Performance, 34, 22597-22610.* https://doi.org/10.1007/s11665-025-10837-y. Impact Factor (JCR 2024): 2.0

SONI KESARWANI

Department of Mechanical Engineering



AWARD SUMMARY

Premier Research Award

Commendable Research Award

Soni Kesarwani hold a PhD degree in the Department of Mechanical Engineering at Delhi Technological University (DTU). She holds an M.Tech in Production Engineering from DTU and a B.Tech in Mechanical Engineering from IERT (AKTU). Her research expertise spans wire arc additive manufacturing, bimetallic materials, friction stir processing, metal matrix composites, casting, optimization techniques, and machining. She has professional experience at Petrofac Pvt. Ltd., where she worked as a Procurement Engineer in Dubai (UAE) and as a Piping Engineer in Gurugram (Haryana), contributing to pipe stress analysis and supporting major projects, including the Thai Oil HMU Unit. She has authored ten research papers in reputed SCI/SCIE-indexed international journals and has participated in numerous national and international conferences and workshops. She is also a member of the Indian Institute of Metals (IIM) and a Life Member of the Indian Welding Society (IWS).

PUBLICATION DETAILS

Premier Research Award

1. **Soni Kesarwani**, Narayana Yuvaraj, Mahendra Singh Niranjan (2025). Wear Performance Enhancement of Interface Layer in Cold Metal Transfer-Based WAAM-Fabricated ER4043/ER5356 Bimetallic Wall Through Friction Stir Surface Treatment. *Journal of Tribology, 147(8), 081401.* https://doi.org/10.1115/1.4067281. Impact Factor (JCR 2024): 3.0

Commendable Research Award

1. **Soni Kesarwani**, Narayana Yuvaraj (2025). Optimization of CMT-WAAM process parameters to minimize the porosity and surface roughness in bimetallic wall of aluminium alloys. *Welding in the World, 69, 989-1002.* https://doi.org/10.1007/s40194-024-01900-8. Impact Factor (JCR 2024): 2.5
2. **Soni Kesarwani**, Vibhu Singh, Narayana Yuvaraj (2025). Effect of Interlayer Addition of La2O3 Nanoparticles on the Performance of ER5356 Alloy Wall Fabricated by Wire-Arc Directed Energy Deposition. *Transactions of the Indian Institute of Metals, 78(9), 212.* https://doi.org/10.1007/s12666-025-03691-y. Impact Factor (JCR 2024): 1.6

SUBHAJIT KONAR

Department of Mechanical Engineering



AWARD SUMMARY

Premier Research Award

Commendable Research Award

Dr. Subhajit Konar is currently working as Chief of Staff at Thinkmetal Private limited, Chennai. He has 6.5 years of experience in the field of Intellectual Property Rights. He has worked for iRunway and Elevate for projects like Prior art search, infringement analysis, Freedom to operate search, Landscape analysis and invalidity analysis. His area of research has been in sheet metal forming of Tailor Welded Blanks, Friction Stir Welding. He has authored two SCIE indexed and two Scopus indexed journals. He has presented four papers at national and international conferences. Currently, he is involved in development of 3D printer manufacturing and filament fabrication.

PUBLICATION DETAILS

Premier Research Award

1. **Subhajit Konar**, Vijay Gautam (2025). Investigations on Formability Enhancement of Friction Stir Tailor-Welded Blanks. *Journal of Engineering Materials and Technology, 147(3), 031004.* https://doi.org/10.1115/1.4067785. Impact Factor (JCR 2024): 1.9

Commendable Research Award

2. **Subhajit Konar**, Vijay Gautam (2025). Deformation Behaviour of a High Manganese Austenitic Steel and Measurements of Microstructural Features Using Orientation Imaging Microscopy. *MAPAN, 40, 991-1005.* https://doi.org/10.1007/s12647-025-00859-1. Impact Factor (JCR 2024): 1.3

SUDEEP KUMAR JAIN

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Sudeep Kumar Jain is a Mechanical Engineering academician and researcher specializing in advanced manufacturing and metal additive manufacturing. He is currently serving as an Assistant Professor at the National Institute of Fashion Technology (NIFT), Bhopal, under the Ministry of Textiles, Government of India. He completed his Ph.D. in Wire Arc Additive Manufacturing (WAAM), with a focus on the cold metal transfer (CMT)-based fabrication of SS316L structures. His research primarily focuses on process optimization, geometric modeling, and microstructural characterization of additively manufactured materials. Dr. Jain is also associated with Delhi Technological University (DTU), where he serves as the Ph.D. Coordinator and President of the Researchers Club, contributing to academic leadership and research development. Prior to joining NIFT, he served as a Visiting Faculty at IndiraGandhi Delhi Technical University for Women (IGDTUW) and Delhi Technological University (DTU), teaching courses in Mechanical Engineering and Design.

PUBLICATION DETAILS

1. **Sudeep Kumar Jain**, Qasim Murtaza, Pushpendra Singh (2025). Investigations and Multi-response Optimization of Process Parameters for SS316L Cold Metal Transfer-Wire Arc Additive Manufactured Samples. *Journal of Materials Engineering and Performance, 34, 8462-8472.* https://doi.org/10.1007/s11665-024-10112-6. Impact Factor (JCR 2024): 2.0

SURBHI UPADHYAY

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Surbhi Upadhyay is an academic professional and researcher with a strong interest in sustainable manufacturing systems and operations management. She is currently engaged in research focusing on Make-To-Order (MTO) manufacturing strategies and their role in achieving competitive advantage and sustainability in modern industries. Her work integrates analytical tools such as Partial Least Squares Structural Equation Modeling (PLS-SEM) to study the relationship between manufacturing practices, organizational capabilities, and sustainable outcomes. Through her research, Surbhi has explored practical industry applications by conducting case studies within Indian manufacturing sectors, particularly in automotive and apparel industries. Her work aims to bridge the gap between academic theory and real-world industrial practices, helping organizations adopt flexible, responsive, and sustainable production systems. Surbhi's research contributions emphasize the importance of technological adoption, supplier collaboration, skilled workforce development, and organizational adaptability in improving manufacturing performance. Her published paper reflects her commitment to advancing knowledge in sustainable operations and providing insights that can guide both researchers and industry practitioners. She is honored to have her work recognized at Delhi Technological University and remains dedicated to contributing to impactful research that supports innovation, sustainability, and responsible industrial development. She is also working as an Assistant Professor in the Department of Mechanical and Automation Engineering, Maharaja Agrasen Institute of Technology, Delhi.

PUBLICATION DETAILS

1. **Surbhi Upadhyay**, Suresh Kumar Garg, Rishu Sharma (2025). Unlocking competitive edge and sustainability through Make-to-Order manufacturing: an empirical investigation. *Environment, Development and Sustainability, 27, 8811-8834.* https://doi.org/10.1007/s10668-023-04255-0. Impact Factor (JCR 2024): 4.2

VIBHU SINGH

Department of Mechanical Engineering



AWARD SUMMARY

Commendable Research Award

Vibhu Singh holds a PhD in Mechanical Engineering from Delhi Technological University (DTU), Delhi. She earned her M.Tech in Production Engineering from DTU and her B.Tech in Mechanical Engineering from Ajay Kumar Garg Engineering College (AKGEC), affiliated with Dr A.P.J. Abdul Kalam Technical University (AKTU). Her research interests include metal matrix composites, welding technologies, wire arc additive manufacturing (WAAM), optimization techniques, and machining processes. She also has industry experience as a Deputy Manager at Volvo Eicher Commercial Vehicles Ltd., Pithampur, Madhya Pradesh, where she contributed to the design and development of lightweight composite-based automotive chassis components. She has published ten research papers in reputed international SCI/SCIE-indexed journals and has actively participated in several national and international conferences and workshops. She is also a member of the Indian Institute of Metals (IIM) and a life member of the Indian Welding Society (IWS).

PUBLICATION DETAILS

1. **Vibhu Singh**, Qasim Murtaza, M.S. Niranjan (2025). Tailoring the microstructure and properties of AA6061-T6/TiB2 cast composites with the addition of rare earth La2O3 nanoparticles. *Composites Communications, 53, 102230.* https://doi.org/10.1016/j.coco.2024.102230. Impact Factor (JCR 2024): 7.7
2. **Vibhu Singh**, M. S. Niranjan, Qasim Murtaza (2025). Evaluation of the role of process parameters of CMT welding and their statistical behaviour on the tensile properties of weld joint of novel aluminium hybrid composite. *Welding in the World, 69, 245-267.* https://doi.org/10.1007/s40194-024-01805-6. Impact Factor (JCR 2024): 2.5

VIJAY SHEKHAR SHARMA

Department of Mechanical Engineering



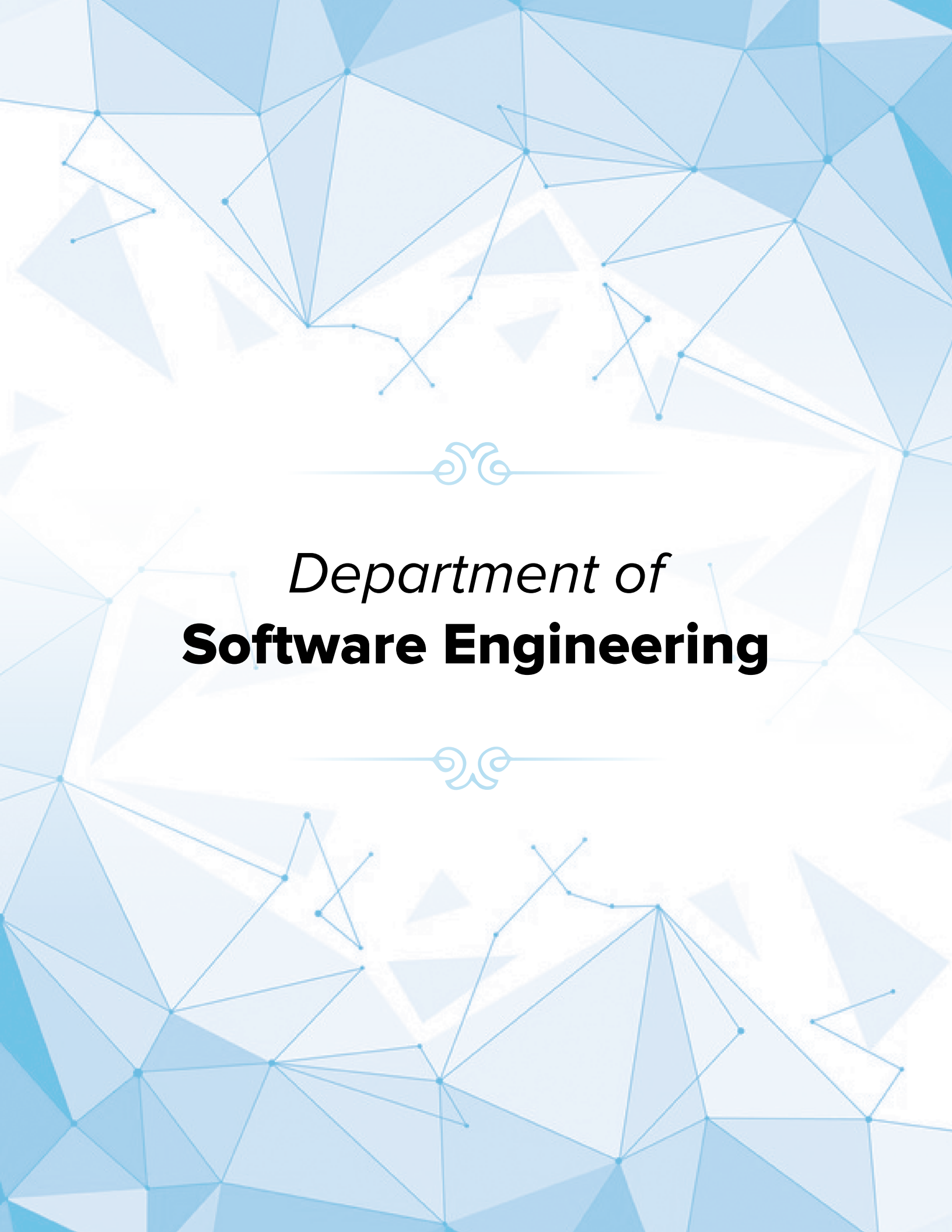
AWARD SUMMARY

Commendable Research Award

Vijay Shekhar Sharma is a Mechanical Engineering researcher specializing in thermal engineering, sustainable materials, and energy-efficient building technologies. He is currently pursuing his Ph.D. in Mechanical Engineering at Delhi Technological University (DTU), where his research focuses on the development and performance evaluation of cellulose-based insulation materials for improving thermal efficiency in building structures. His work integrates experimental investigation, material characterization, and computational analysis to explore sustainable insulation solutions that can reduce energy consumption in buildings. He completed his M.Tech in Thermal Engineering from Delhi Technological University, where his dissertation focused on the fabrication of cellulose fiber insulation using recycled paper waste. This research formed the foundation for his ongoing work on eco-friendly and bio-based insulation materials and their thermal performance in building envelopes. Vijay has authored and co-authored several peer-reviewed research articles published in reputed journals, including Scopus-indexed journals, focusing on thermal insulation materials, sustainable building materials, and thermophysical properties of solids. His research aims to contribute to the development of environmentally responsible engineering solutions that support energy-efficient and sustainable construction practices. His academic interests include heat transfer, sustainable construction materials, building energy efficiency, and computational thermal analysis.

PUBLICATION DETAILS

1. **Vijay Shekhar Sharma**, Rajesh Kumar, Radhey Shyam Mishra (2025). Development and thermal optimization of cellulose-based insulation panels reinforced with cementitious industrial by-products. *Journal of Building Engineering, 116, 114632.* https://doi.org/10.1016/j.jobe.2025.114632. Impact Factor (JCR 2024): 7.4


Department of
Software Engineering

PRIYANKA ARORA

Department of Software Engineering



AWARD SUMMARY

Commendable Research Award

My name is Priyanka Arora, and I come from Delhi, India. My academic and professional journey reflects my strong interest in mathematics, technology, and research. I completed my undergraduate degree in Mathematics (Honours), which helped me develop analytical thinking and problem-solving skills. Later, I pursued a Master of Computer Applications (MCA) to deepen my knowledge of computing and software systems. After completing my post-graduation, I worked as a software developer for four years, where I gained valuable industry experience and practical exposure to real-world technological challenges. However, the COVID-19 pandemic became a turning point in my life, encouraging me to return to academics and focus on higher learning. During this period, I dedicated myself to studying and successfully cleared the UGC NET examination in 2022. This achievement marked the beginning of my research journey and motivated me to pursue a career in academia. Currently, I am a PhD student at Delhi Technological University (DTU), where I am exploring research in the fields of Artificial Intelligence and Machine Learning. My journey so far has been shaped by curiosity, resilience, and a continuous desire to learn, and I aspire to contribute meaningful research that can help address real-world challenges through technology.

PUBLICATION DETAILS

1. **Priyanka Arora**, Sonika Dahiya (2025). COVID-19-Induced Depression and Anxiety Detection: A Systematic Literature Review of Machine Learning and Deep Learning Techniques. *New Generation Computing, 43(4), 20.* https://doi.org/10.1007/s00354-025-00305-5. Impact Factor (JCR 2024): 2.8

ROSHNI SINGH

Department of Software Engineering



AWARD SUMMARY

Commendable Research Award

Roshni Singh is a dedicated researcher and academic in the field of Computer Science, with a strong focus on deep learning, computer vision, and human activity recognition. She recently earned her Ph.D., where her research centered on developing advanced frameworks for activity recognition in challenging environments, including low-light and surveillance scenarios. Her work integrates cutting-edge architectures such as transformers, convolutional neural networks, and temporal modeling techniques to address real-world problems. She has contributed to several high-quality research publications in reputed journals, including Q1indexed venues, and has received recognition for her work, including a Best Paper Award. Her recent research explores diffusion-driven semi-supervised learning and multi-scale attentionbased fusion networks, demonstrating her commitment to innovation and impactful solutions. Roshni is also passionate about teaching and mentoring, with experience guiding students in subjects such as image processing, databases, and machine learning. She is currently seeking opportunities postdoctoral researcher, where she aims to further advance research, collaborate internationally, and contribute to academic excellence.

PUBLICATION DETAILS

1. **Roshni Singh**, Abhilasha Sharma (2025). STAD-ConvBi-LSTM: Spatio-temporal attention-based deep convolutional Bi-LSTM framework for abnormal activity recognition. *Journal of Visual Communication and Image Representation, 110, 104465.* https://doi.org/10.1016/j.jvcir.2025.104465. Impact Factor (JCR 2024): 3.1
2. **Roshni Singh**, Abhilasha Sharma (2025). Occluded skeleton-based multi-stream model using Part-Aware Spatial–Temporal Graph Convolutional Network for human activity recognition. *Engineering Applications of Artificial Intelligence, 156, 111183.* https://doi.org/10.1016/j.engappai.2025.111183. Impact Factor (JCR 2024): 8.0

RUCHIKA MALHOTRA

Department of Software Engineering



AWARD SUMMARY

Yearly Citation Award (Early Research Impact and Influence Award)

Commendable Research Award

Prof. Ruchika Malhotra is Head of Department and Professor in the Department of Software Engineering, Delhi Technological University, Delhi, India. She also serves as the Director for University Ranking from 2025. She served as Associate Dean in Industrial Research and Development, Delhi Technological University from August 2018 to 2022. She was awarded with prestigious Raman Fellowship for pursuing Post-doctoral research in Indiana University Purdue University Indianapolis USA. She received her master's and doctorate degree in software engineering from the University School of Information Technology, Guru Gobind Singh Indraprastha University, Delhi, India. She has received IBM Faculty Award 2013. She has been ranked amongst the World's top 2% scientist by Stanford University report, USA, for her research in the field of "Artificial Intelligence & Image Processing" in 2020, 2021, 2022, 2023, 2024, and 2025. She is recipient of Commendable Research Award (in 2018, 2019, 2020, 2021, 2022, 2023, 2024, and 2025) by Delhi Technological University. Her h-index is 42 as reported by Google Scholar. She is author of book titled "Empirical Research in Software Engineering" published by CRC press and co-author of a book on Object Oriented Software Engineering published by PHI Learning. She has published more than 290+ research papers in international journals and conferences. Her research interests are in software testing, improving software quality, healthcare analytics statistical and adaptive prediction models, software metrics and the definition and validation of software metrics.

PUBLICATION DETAILS

1. **Ruchika Malhotra**, Vidushi (2025). Improving software vulnerability severity prediction model performance with HDLN & FWFS: a two-stage feature selection approach. *Software Quality Journal, 33(1), 17.* https://doi.org/10.1007/s11219-025-09714-7. Impact Factor (JCR 2024): 2.3
2. **Ruchika Malhotra**, Vidushi (2025). Hybrid feature selection module for improving performance of software vulnerability severity prediction model on textual dataset. *Computing, 107(2), 66.* https://doi.org/10.1007/s00607-025-01425-y. Impact Factor (JCR 2024): 2.8
3. **Ruchika Malhotra**, Priya Singh (2025). DHG-BiGRU: Dual-attention based hierarchical gated BiGRU for software defect prediction. *Information and Software Technology, 179, 107646.* https://doi.org/10.1016/j.infsof.2024.107646. Impact Factor (JCR 2024): 4.3

SONIKA DAHIYA

Department of Software Engineering



AWARD SUMMARY

Commendable Research Award

Dr. Sonika Dahiya has been working as Assistant Professor in the department of Software Engineering, DTU since 2016. She has received her PhD in IT from Guru Gobind Singh Indraprastha University, Delhi (GGSIPU). Her research interests include Fuzzy Clustering, Data Mining, Fuzzy Logics, Algorithm Design and Analysis, Deep Learning, Machine Learning, and Optimization. She has published in many International Journals and International Conferences.

PUBLICATION DETAILS

1. Priyanka Arora, **Sonika Dahiya** (2025). Unveiling the impact of dataset size on machine learning models for anxiety and depression prediction amid the COVID-19 pandemic: determining optimal data collection thresholds. *Current Psychology, 44, 8106-8119.* https://doi.org/10.1007/s12144-025-07432-8. Impact Factor (JCR 2024): 2.6




DELHI TECHNOLOGICAL
UNIVERSITY (EAST
(EAST DELHI CAMPUS)

University School of

Management and Entrepreneurship

DIVYA MISHRA

University School of Management and Entrepreneurship



AWARD SUMMARY

Commendable Research Award

Dr. Divya Mishra is an Assistant Professor at the University School of Management and Entrepreneurship (USME), Delhi Technological University. She earned her doctorate in Human Resource Management and Organizational Behaviour from University School of Management and Entrepreneurship, Delhi Technological University, and holds both her graduation and master's degrees from University of Allahabad, where she was awarded a Gold Medal for academic excellence. She has published widely in high-impact international journals such as IEEE Transactions on Engineering Management, Journal of Knowledge Management, International Journal of Organizational Analysis, and Journal of Contingencies and Crisis Management -Wiley. In addition, she has authored a book, contributed book chapters with reputed publishers including Taylor & Francis and Emerald Publishing, and published many case studies with SAGE Business Cases Originals on contemporary business issues. She has presented her research at premier institutions such as IIM Ahmedabad, IIM Bangalore, and IIM Indore, and has been conferred with the Best Reviewer Award by the Academy of Management (AOM). She also serves as a reviewer for reputed journals including California Management Review, Frontiers in Psychology, and Springer Nature. Her research interests span Human Resource Management, Organizational Behaviour, Marketing, Technological Innovation, Good Governance, Crowdsourcing, Open Innovation, and Digital Transformation.

PUBLICATION DETAILS

1. **Divya Mishra**, Nidhi Maheshwari (2025). Influencer Alignment in Crisis Response: An Experimental Study on Trait and Emotional Congruence for Brand Reputation Recovery. *Journal of Contingencies and Crisis Management, 33(3), e70068.* https://doi.org/10.1111/1468-5973.70068. Impact Factor (JCR 2024): 2.2

NAVAL GARG

University School of Management and Entrepreneurship



AWARD SUMMARY

Commendable Research Award

Dr. Naval Garg is currently associated with Netaji Subhas University of Technology as an Associate Professor. He was previously with USME as an Assistant Professor. He is a prominent researcher and features in the world's top 2% researchers (as per Stanford University list). His areas of research include workplace spirituality, gratitude, scale development and Indian Knowledge System.

PUBLICATION DETAILS

1. **Naval Garg** (2025). Development and Validation of Spiritual Well-Being Scale in India: A Yogic Niyama Perspective. *Journal of Religion and Health, 64, 1320-1340.* https://doi.org/10.1007/s10943-024-02163-9. Impact Factor (JCR 2024): 2.0

VIRENDER KUMAR

University School of Management and Entrepreneurship



AWARD SUMMARY

Commendable Research Award

Dr. Virender Kumar is an Assistant Professor at University School of Management and Entrepreneurship (USME), Delhi Technological University. He has a Bachelor's degree in Economics from Hansraj College, University of Delhi, and Master's degree in Economics from Delhi School of Economics, University of Delhi. He has completed his Ph.D (Economics) and M.Phil (Economics) from Delhi School of Economics, University of Delhi. He was previously employed with Shri Ram College of Commerce (SRCC), University of Delhi, and has more than 11 years of teaching and research experience. He has publications in reputed journals from Elsevier, Springer, Emerald, and Wiley. His areas of interest include Macroeconomics, Monetary Economics, International Economics, Financial Markets, Environmental Economics, Time Series Analysis, and Panel Data Analysis.

PUBLICATION DETAILS

1. **Virender Kumar**, Simran (2025). How financial development shapes globalization's impact on income inequality in Asia?. *Economic Analysis and Policy, 86, 1083-1098.* https://doi.org/10.1016/j.eap.2025.04.021. Impact Factor (JCR 2024): 8.7
2. **Virender Kumar** (2025). Examining the impact of domestic monetary policy on foreign portfolio investment flows to India. *International Review of Finance, 25(2), e70023.* https://doi.org/10.1111/irfi.70023. Impact Factor (JCR 2024): 2.6

Department of

Geospatial Science and Technology

DYVAVANI KRISHNA KAPUGANTI

Department of Geospatial Science and Technology



I am currently pursuing PhD in the Department of Geospatial Science and Technology. My PhD research topic is Assessment and Mitigation Strategies for Urban Heat Islands in Delhi region. I have an expertise in remote sensing & climate analysis, biodiversity management and ecosystem studies. My previous affiliations include Indian Institute of Remote Sensing and Aligarh Muslim University.

PUBLICATION DETAILS

1. **Dyvavani Krishna Kapuganti**, Kailash C. Tiwari, Gopala Areendran (2025). Assessing land surface temperature dynamics and urban heat island effects in Delhi: a multi-temporal analysis and future projections. *Environmental Monitoring and Assessment, 197(10), 1094.* https://doi.org/10.1007/s10661-025-14390-y. Impact Factor (JCR 2024): 3.0

AWARD SUMMARY

Commendable Research Award

JAYA YADAV

Department of Geospatial Science and Technology



I am a PhD scholar in the Department of Geospatial Science and Technology. My PhD research topic is “Investigations on Improvement in Rainfall Prediction”. I have an expertise in remote sensing & climate analysis, integration of ancient knowledge with modern concepts and techniques. My previous affiliations include IIT Roorkee and University College of Engineering.

PUBLICATION DETAILS

1. **Jaya Yadav**, Ashim Kumar Mitra, Kailash Chandra Tiwari (2025). Overview of Brihat Samhita rainfall prediction methodology over the Indian region and its utilization by machine learning technique. *Journal of Earth System Science, 134(4), 214.* https://doi.org/10.1007/s12040-025-02672-5. Impact Factor (JCR 2024): 1.7

AWARD SUMMARY

Commendable Research Award

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