A COMPENDIUM Of

CITATION, INNOVATION & RESEARCH AWARDS

RESEARCH & INNOVATION EXCELLENCE AWARDS-2024

1st JANUARY, 2023 TO
31st DECEMBER, 2023

DELHI TECHNOLOGICAL UNIVERSITY

(Formerly Delhi College of Engineering)

Open Air Theater
DTU

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Auditorium
DTU

Research at the UNIVERSITY

The Delhi Technological University (DTU) was established through Act 6 of 2009 by the legislative assembly of the National Capital Territory (NCT) of Delhi which provided for reconstitution of the erstwhile Delhi College of Engineering (established as Delhi Polytechnic in 1941 following the recommendations of Wood and Abott Committee 1938), to cater to the needs of industries for trained technical manpower with practical experience and sound theoretical knowledge.

DTU has shown discernible excellence in technical education, research and innovations for more than eight decades now. It is a non-affiliating teaching–cum–research university established to impart quality teaching at undergraduate and postgraduate level, facilitate and promote scientific enquiry using state of art equipments for research, protection of intellectual property rights, technology business incubation, product innovation and extension work in science, technology, management, and allied areas.

The university offers undergraduate programmes in fifteen engineering disciplines, one in Business Administration and one in Economics. The university currently offers twenty-five M. Tech. programmes, five M.Des. programmes, six MBA programmes and four M.Sc. programmes also. More than 1450 students are pursuing Ph.D. degree in various departments of the university. The university is committed to promote research through the scientific priorities right from the undergraduate level onwards. It has made significant contributions through the published research in scholarly journals, intellectual property rights (IPR), and through incubation & innovation.

The faculty members of various departments of the university are involved in carrying out a large number of industrial consultancy and sponsored projects from the government departments, such as DKDF AICTE, DST, DBT, UGC, CSIR, ICMR, DRDO to name a few and private organization. The university provides financial support to the faculty and students for presenting research papers in national and international conferences besides bearing all expenses incurred in patenting of any IP generated by the faculty and students. University supports many inter disciplinary student teams for innovative product development and participation in international design competitions. The university currently houses thirty-five startup units. It is named as a nodal centre for incubation at Delhi supported by the Govt. of NCT of Delhi.

The thrust areas of research at the university include clean energy technologies, solar PV related technologies, electric vehicles and related technologies, smart grids, material testing, fracture mechanics, rock and geo-mechanics, structural dynamics, CFD, environmental monitoring, future automobile solutions, metro technology and systems, nano-scale devices, biosensors, robotics and machine vision, new and smart materials, conducting polymers, computer aided design, physics of plasma, VLSI design and embedded system, machine learning, software quality and testing, intelligent power systems, information security and network management and other, knowledge and innovation management and socially relevant technologies.

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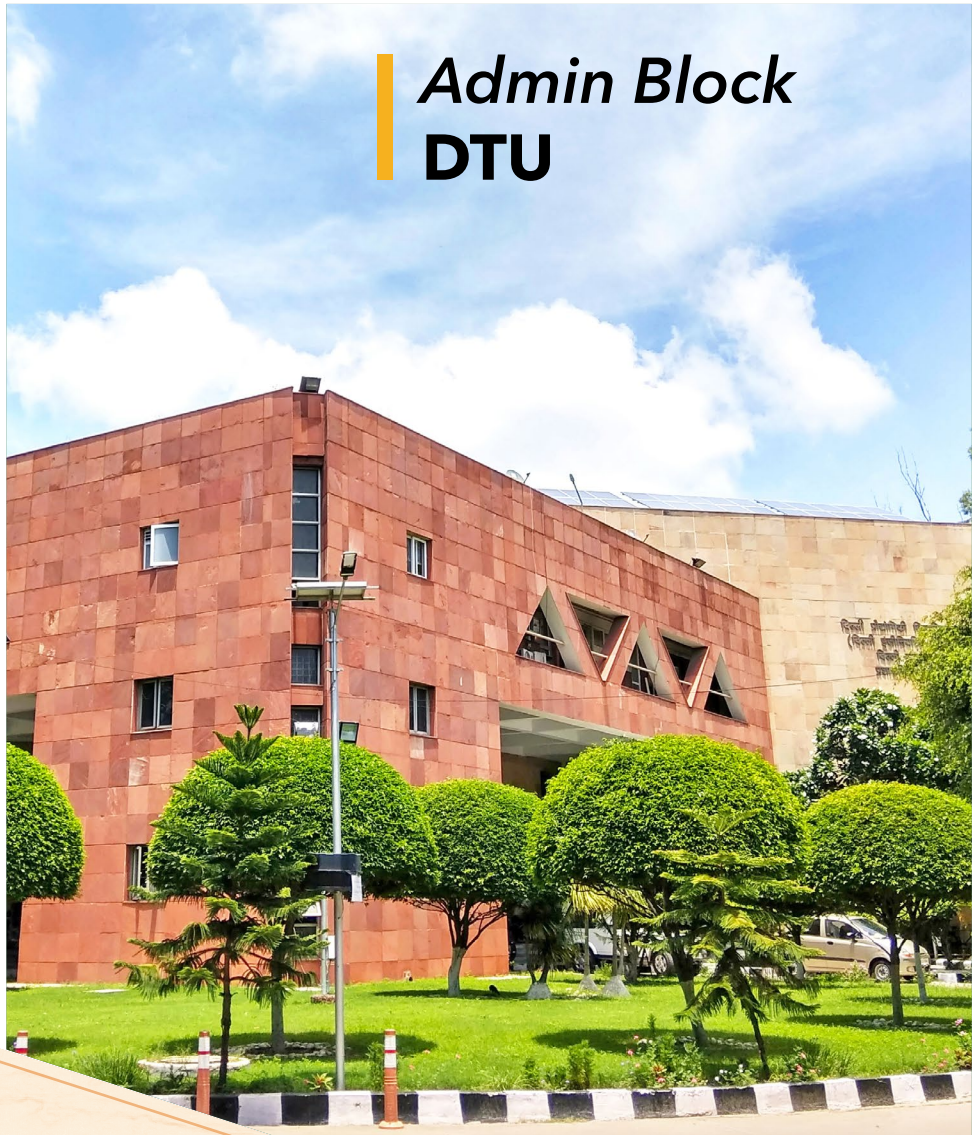
Admin Block
DTU



From the Desk of the
VICE CHANCELLOR

Delhi Technological University (DTU) stands as a beacon of higher education and research, with a legacy that extends over eight decades. Its transformation from Delhi College of Engineering to DTU marks a journey of evolution, embracing change and fostering innovation. The university's commitment to excellence is reflected in its diverse academic offerings, which span the spectrum of Science, Engineering, Technology, Management, and Allied Areas, catering to the aspirations of a dynamic student body.

The nurturing of a research-centric culture at DTU is a testament to its dedication to academic excellence. The establishment of the Research Excellence Awards was a strategic move to incentivize scholarly pursuits and recognize the outstanding contributions of its faculty and students. The significant increase in eligible research papers over the years is indicative of the thriving research environment that DTU has cultivated. In the inaugural year (2017), 82 research papers met the eligibility criteria for these awards. This year, we are proud to recognize 442 outstanding research papers across various categories.

The introduction of Citation Awards further underscores the university's recognition of the global impact of its research community. By honoring the work that resonates within the international scientific arena, DTU not only acknowledges individual achievements but also elevates its standing in the global research landscape. Twenty-three researchers are being felicitated under different categories this year.

The Innovation Research Awards for patents are a bold step towards encouraging practical applications of research and fostering a spirit of entrepreneurship among researchers. This initiative aligns with the global shift towards innovation-driven economies and positions DTU at the forefront of technological advancement. In this inaugural edition, four patents meeting the eligibility criteria will be awarded.

The remarkable growth in DTU's h-index is a quantitative reflection of the quality and influence of its research output. The prolific publication of research papers is a clear indicator of the vibrant intellectual ecosystem that the university has successfully developed. Our university’s h-index, as reported by SCOPUS, has risen from 60 in 2018 to an impressive 120. In 2023, we published a total of 2,020 research papers.

The collective efforts of the award recipients have not only enriched the academic fabric of DTU but have also contributed significantly to the nation's progress in science and technology. Their achievements serve as an inspiration to the current and future generations of researchers, setting a benchmark for excellence and driving the nation towards a knowledge-based future. Congratulations to all the award recipients for their exemplary contributions and for setting a standard of excellence that will inspire many.

Dated:05:09:2024
Prof. Prateek Sharma
Vice Chancelor, DTU

PROf. PRATEEK SHARMA

VICE CHANCELLOR

PROF. ANIL KUMAR SAHU

DEAN
Industrial Research and Development (IRD)

PROf. ROLI PURWAR

ASSOCIATE DEAN
Industrial Research and Development (IRD)

PREFACE

In the dynamic landscape of modern academia and industry, research and innovation stand as the twin pillars that propel societies into new eras of development and prosperity. It is with great pleasure that we present this compendium, which not only celebrates the brilliant minds whose groundbreaking work has been recognized with prestigious awards but also serves as a beacon to inspire future generations.

The Research Excellence Awards at Delhi Technological University (DTU), envisioned by Prof. Yogesh Singh, have significantly bolstered the institution's research stature since their inception in 2017. Recognizing scholarly contributions that are published and indexed, these awards underscore the university's commitment to academic distinction. The categorization of the awards into Outstanding, Premier, and Commendable tiers reflects a nuanced appreciation of academic contributions, while the citation awards, anchored in Scopus profiles, offer a data-driven acknowledgment of research impact. In the year 2024, innovation awards are instituted by Prof. Prateek Sharma, Vice Chancellor of DTU, to enhance the culture of translation research, product development and startups.

This compendium serves not only as a record of scholarly achievements but also as a beacon of inspiration for upcoming researchers and students at DTU. The meticulous evaluation process, undertaken by a dedicated scrutiny committee comprising esteemed faculty members ensures the integrity and prestige of these awards. We are thankful to scrutiny committee members namely Prof. Neeta Pandey, Prof. Alka Singh, Prof. C P Singh, Prof, Deeraj Joshi, Prof. Poornima Mittal, Prof. Anil Kumar (AC), Prof. Anil Kumar (ME), Prof. Raju Sarkar, Prof. Anjana Gupta, Prof. Mini Sreejeth, Prof. Saurabh Agrawal, Dr. Pravin Kumar, Dr. Asmita Das, Dr. Virendra Ranga, Dr. Mohan Singh Mahata, Dr. Rajeev Kumar Mishra, Dr. Sumit Kale, Dr. Nishi Maheshwari, Dr. Bharti Singh, Dr. Anurag Goel, Dr. Pawan Singh Mehra and Dr. Rajeev Kumar for the evaluating the applications of research excellence awards and for their valuable suggestions. We are grateful to the scrutiny committee members Prof. Pravir Kumar, Prof. Rishu Chaujar, Prof. Anil Kumar, Dr. M Jayasimhadri, for the evaluating the applications of citation awards and for their valuable suggestions. We are thankful to Prof. C P Singh, Prof. Anil Kumar, Prof. Yasha Hasija, Dr. Rajeev Kumar for examine the applications of innovation awards.

The awards, by highlighting the exemplary work of DTU's faculty, also foster a culture of excellence within the academic community. They encourage a continuous pursuit of innovation and scholarly inquiry, which is vital for the growth of individual researchers and the University as a whole. As DTU moves forward, the Research and Innovation Excellence Awards will undoubtedly continue to play a pivotal role in shaping the research landscape, not only within the university but also in the broader academic sphere. The gratitude expressed towards the committee members is a testament to the collaborative spirit that drives the university's research endeavours. This initiative, therefore, stands as a testament to DTU's dedication to advancing knowledge and contributing to the global academic community.

Prof. Anil Kumar Sahu (Dean-IRD)
Prof. Roli Purwar (Associate Dean-IRD)

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
7. Head Computer Centre with a request to upload on website
8. Guard File

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)

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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:

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.

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

464/C

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

463/C

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

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

CITATION AWARD

Cumulative Citation Award : Platinum

S. No.	Name of Researcher	Name of Department
1	Prof. Anil Kumar	Mechanical Engineering

Cumulative Citation Award : Gold

S. No.	Name of Researcher	Name of Department
1	Prof. Pravir Kumar	Biotechnology
2	Prof. Dinesh Kumar Vishwakarma	Information Technology
3	Prof. Ruchika Malhotra	Software Engineering

Cumulative Citation Award : SILVER

S. No.	Name of Researcher	Name of Department
1	Prof. Roli Purwar	Applied Chemistry
2	Dr. Mohan Singh Mehata	Applied Physics
3	Prof. Rahul Katarya	Computer Science & Engineering
4	Prof. Virender Ranga	Information Technology
5	Prof. Qasim Murtaza	Mechanical Engineering
6	Prof Suresh Kumar Garg	Mechanical Engineering

Highly Cited Paper Award

S. No.	Name of Researcher	Name of Department	Journal with Publication Details
1	Prof. Pravir Kumar	Biotechnology	Gupta, R. , Srivastava, D. , Sahu, M. , Tiwari S., Ambasta, R.K. & Kumar, P. (2021), Artificial intelligence to deep learning: machine intelligence approach for drug discovery, Molecular Diversity, 25, 1315–1360.
2	Prof. Dinesh Kumar Vishwakarma	Information Technology	Meel P. & Vishwakarma D. K, (2020), Fake news, rumor, information pollution in social media and web: A contemporary survey of state-of-the-arts, challenges and opportunities,Expert Systems with Applications 153, 112986.

Yearly Citation Award: Early Research Impact and Influence Award

S. No.	Name of Researcher	Name of Department
1	Prof. D.Kumar	Applied Chemistry
2	Prof. Roli Purwar	Applied Chemistry
3	Prof. A. Srinivasa Rao	Applied Physics
4	Dr. Mohan Singh Mehata	Applied Physics
5	Dr. M. Jayasimhadri	Applied Physics
6	Prof. Rishu Chaujar	Applied Physics
7	Dr. Navneeta Bharadvaja	Biotechnology
8	Prof. Pravir Kumar	Biotechnology
9	Prof. Raju Sarkar	Civil Engineering
10	Prof. Rahul Katarya	Computer Science & Engineering
11	Prof. Saurabh Agrawal	Delhi School of Management
12	Dr. Manjeet Kumar	Electronics and Communication Engineering
13	Prof. Neeta Pandey	Electronics and Communication Engineering
14	Prof. O. P Verma	Electronics and Communication Engineering
15	Prof. Rajeshwari Pandey	Electronics and Communication Engineering
16	Prof. Anil Kumar Haritash	Environmental Engineering.
17	Prof. Dinesh Kumar Vishwakarma	Information Technology
18	Prof. Virender Ranga	Information Technology
19	Prof. Anil Kumar	Mechanical Engineering
20	Prof. Pravin Kumar	Mechanical Engineering
21	Prof. Qasim Murtaza	Mechanical Engineering
22	Prof Suresh Kumar Garg	Mechanical Engineering
23	Prof. Ruchika Malhotra	Software Engineering

List for Innovation Research Award 2024

S. No.	Name of Applicant	Patent Number	Patent Title	Name of Department
1	Dr. Mohan Singh Mehata	463021	SYSTEM AND METHOD FOR DETECTING TRIVALENT METAL IONS	Applied Physics.
2	Dr. Mohan Singh Mehata	481999	PROBE FOR THE DETECTION Of FERRIC IRON IN AQUEOUS ENVIRONMENTS AND METHOD THEREOf	Applied Physics
3	Dr. Pawan Kumar Tyagi	419036	GROWTH Of DIAMOND FILM USING THERMAL CVD AT ATMOSPHERIC PRESSURE USING SUGARCANE BAGASSE AS CARBON PRECURSOR AND PROCESS THEREOf	Applied Physics
4	Divyashikha Sethia	425612	PORTABLE COMPUTING DEVICE BASED SECURE MEDICAL RECORDS MANAGEMENT	Software Engineering.

Details for Published Papers for

PREMIER RESEARCH AWARDS

1ST JANUARY, 2023 – 31ST DECEMBER, 2023

S. No.	Authors	Paper Title	Journal with Publications Details
DEPARTMENT Of APPLIED CHEMISTRY			
1	**Anil Kumar,** Donghyeon Kim, Sachin Kumar, Atif Mahammed, David G. Churchill, Zeev Gross	Milestones in corrole chemistry: historical ligand syntheses and post-functionalization	*Chemical Society Reviews,* Vol. 52, PP. 573-600, 2023. **Impact Factor: 6.0**
DEPARTMENT Of APPLIED MATHEMATICS			
1	**Shruti Aggarwal,** Anu Kumari, Satyabrata Adhikari	Physical realization of realignment criteria using the structural physical approximation	*Physics Review A,* Vol. 108, PP. 012422, 2023. **Impact Factor: 2.9**
2	**Trasha Gupta,** Rajni Jindal, Indu Shreedevi	Empirical Review of Various Thermography-based Computer-aided Diagnostic Systems for Multiple Diseases	*ACM Transactions on Intelligent Systems and Technology*, Vol. 14(3), PP 1–33, 2023. **Impact Factor: 5**
DEPARTMENT Of APPLIED PHYSICS			
1	Rishu Chaujar, Bhavya Kumar	Fin field-effect-transistor engineered sensor for detection of MDA-MB-231 breast cancer cells: A switching-ratio-based sensitivity analysis	*Physical Review E*, Vol. 108, PP. 034408, 2023. **Impact Factor: 2.4**
DEPARTMENT Of CIVIL ENGINEERING.			
1	**Amit Kumar Srivastava** K. Seshagiri Rao	Shear behaviour of infilled rock joints under different boundary conditions	*Proceedings of the Institution of Civil Engineers-Geotechnical Engineering*, Vol. 176(5), PP. 419-43, 2023. **Impact Factor: 1.953**
2	**Vijay K Minocha,** Manish Pandey, Mehdi Jamei, M. Jamei, Iman Ahmad, Xuefeng Chu	Prediction of Maximum Scour Depth near Spur Dikes in Uniform Bed Sediment Using Stacked Generalization Ensemble Tree-Based Frameworks	*Journal of Irrigation and Drainage Engineering,* vol.147, pp. 04021050, 2021. Impact Factor: 2.6

S. No.	Authors	Paper Title	Journal with Publications Details
DEPARTMENT Of COMPUTER SCIENCE & ENGINEERING.			
1	**Dipika Jain**, Akshi Kumar, Rohit Beniwal	Personality Detection using Kernel-based Ensemble Model for leveraging Social Psychology in Online Networks	*ACM Transactions on Asian and Low-Resource Language Information Processing*, Vol. 22(5), PP. 1-20, 2023. **Impact Factor: 2**
2	Manisha Saini, Seba Susan	VGGIN-Net: Deep transfer network for imbalanced breast cancer dataset	*IEEE/ACM Transactions on Computational Biology and Bioinformatics*, Vol. 20(1), PP. 752-762, 2023. **Impact Factor: 4.5**
3	**Rahul Katarya**, Lokesh Jain, Shelly Sachdev	Opinion Leaders for Information Diffusion Using Graph Neural Network in Online Social Networks	*ACM Transactions,* Vol. 17, PP.1–37, 2023. **Impact Factor: 3.5**
4	**Sanjay Kumar,** Akshi Kumar, B.S. Panda	Identifying Influential Nodes for Smart Enterprises Using Community Structure With Integrated Feature Ranking	*IEEE Transactions on Industrial Informatics*, Vol. 19(1),PP. 703-711, 2023. **Impact Factor: 12.3**
5	**Sanjay Kumar,** Akshi Kumar, Abhishek Mallik, Saksho Dhall	Opinion Leader Detection in Asian Social Networks using Modified Spider Monkey Optimization	*ACM Transactions on Asian and Low-Resource Language Information Processing*, Vol. 22(5), PP. 1-26, 2023. **Impact Factor: 2**
DEPARTMENT Of ELECTRONICS AND COMMUNICATION ENGINEERING			
1	**Ayush Dhaiya**, Poornima Mittal, Rajesh Rohilla	Modified Decoupled Sense Amplifier with Improved Sensing Speed for Low-Voltage Differential SRAM	*ACM Transactions on Design Automation of Electronic Systems*, Vol. 28(6), PP. 1-15, 2023. **Impact Factor: 1.4**
2	Bhawna Rawat, Poornima Mittal	A Reconfigurable 7T SRAM Bit Cell for High Speed, Power Saving and Low Voltage Application	*ACM Transactions on Design Automation of Electronic Systems*, Vol. 28(6), PP. 1-14, 2023. **Impact Factor: 1.4**
3	Poornima Mittal, Bhawna Rawat	A Switching NMOS Based Single Ended Sense Amplifier for High Density SRAM Applications	*ACM Transactions on Design Automation of Electronic Systems*, Vol. 28(3), PP. 1-14, 2023. **Impact Factor: 1.447**
4	**Snehlata Yadav,** Sonam Rewari, Rajeshwari Panday	Impact of temperature on a ferroelectric interfaced negative capacitance double gate junctionless accumulation mode field effect transistor-compact model	*Proceedings of the Royal Society A*, Vol. 479(2271), pp. 20220528., 2023. **Impact Factor: 3.5**

S. No.	Authors	Paper Title	Journal with Publications Details
DEPARTMENT Of ELECTRICAL ENGINEERING			
1	**Ranjeet Singh,** Vinod Kumar Yadav, Madhusudan Singh	Optimal Shade Dispersion Strategy for Enhanced PV Power Extraction Under PSCs	*IEEE Transactions on Power Electronics*, Vol. 38(11), PP. 14665-14674, 2023. **Impact Factor: 1.3**
2	**Rupam Singh,** Bharat Bhushan	Reinforcement Learning-Based Model-Free Controller for Feedback Stabilization of Robotic Systems	*IEEE Transactions on Neural Networks and Learning Systems*, Vol. 34(10), PP. 7059-7073, 2023. **Impact Factor: 6.7**
3	**Shatakshi Jha,** Bhim Singh, Sukumar Mishra	Control of ILC in an Autonomous AC–DC Hybrid Microgrid With Unbalanced Nonlinear AC Loads	*IEEE Transactions on Industrial Electronics*, Vol. 70(1), PP. 544-554, 2023. **Impact Factor: 8.162**
4	**Shatakshi Jha,** Bhim Singh, Sukumar Mishra	Rule-Based Power Management and Quality Enhancement in a Standalone Microgrid	*IEEE Transactions on Industry Applications,* Vol. 59(4), PP. 4484-4494, 2023. **Impact Factor: 4.079**
DEPARTMENT Of INFORMATION TECHNOLOGY			
1	**Bindu Verma**, Himanshu Mittal	CAT-CapsNet: A Convolutional and Attention Based Capsule Network to Detect the Driver's Distraction	*IEEE Transactions on Intelligent Transportation Systems,* Vol. 24, PP. 9561-9570, 2023. **Impact Factor: 8.5**
2	**Dinesh K. Vishwakarma**, Nial Gautam	Obscenity Detection in Videos through a Sequential ConvNet Pipeline Classifier	*IEEE Transactions on Cognitive and Developmental Systems*, Vol. 15(1), PP. 310-318, 2023. **Impact Factor: 5**
3	**Dinesh K. Vishwakarma,** Ashima Yadav	A Deep Multi-Level Attentive network for Multimodal Sentiment Analysis	*ACM Transactions on Multimedia Computing, Communications and Applications*, Vol. 19(1), PP 1-19, 2023. **Impact Factor: 5.1**
DEPARTMENT Of MECHANICAL ENGINEERING			
1	**Anil Kumar,** Pushpendra Singh, Manoj Kumar Gaur, G.N. Tiwari	Thermal Modelling of Water-in-Tube Type Evacuated Tube Solar Collectors to Predict Outlet Water Temperature: An Experimental Validation	*Journal of Solar Energy Engineering*, Vol. 145(2), PP. 021004, 2023. **Impact Factor: 2.3**
2	**Anil Kumar,** Anand Kushwah, Manoj Kumar Gaur, Amit Pal	Heat and Mass Transfer, Quality, Performance Analysis, and Modelling of Thin Layer Drying Kinetics of Banana Slices	*Journal of Solar Energy Engineering*, Vol. 145(5), pp. 051010, 2023. **Impact Factor: 10.4**
3	**Ashutosh Mishra,** B.B Arora, Akhilesh Arora	Multi-Objective Optimization of an Inlet Air-Cooled Combined Cycle Power Plant	*Journal of Thermal Science and Engineering Applications*, Vol. 15(7), PP. 071005, 2023, **Impact Factor: 2.1**

Details for Published Papers for

COMMENDABLE RESEARCH AWARDS

1ST JANUARY, 2023 – 31ST DECEMBER, 2023

S. No.	Authors	Paper Title	Journal with Publications details
DEPARTMENT Of APPLIED CHEMISTRY			
1	**Anvita Chaudhary,** Richa Srivastava	Ionic Liquid-Assisted Depolymerization of Condensation Polymers: A Review	*ChemistrySelect* 8(30), e202301709, 2023. **Impact Factor 2.1**
2	**Bhamini Pandey** Poonam Singh	Statistical optimization of process parameters for ultrafast uptake of anionic azo dyes by efficient sorbent: Zn/Cu layered double hydroxide	*Applied Organometallic* Chemistry 37, e7072, 2023. **Impact Factor 3.9**
3	**D.Kumar** Saroj Paneru	Ag-doped-CuO nanoparticles supported polyaniline (PANI) based novel electrochemical sensor for sensitive detection of paraoxon-ethyl in three real samples	*Sensors and Actuators B:* Chemical 379, 133270, 2023. **Impact Factor 8.4**
4	**D.Kumar** Saroj Paneru	A novel electrochemical biosensor based on polyaniline-embedded copper oxide nanoparticles for high-sensitive paraoxon-ethyl (PE) detection	*Applied Biochemistry and Biotechnology* 195, 4485-4502, 2023. **Impact Factor 3**
5	**D.Kumar** Saroj Paneru	CuO@PEDOT:PSS grafted paper-based electrochemical biosensor for paraoxon-ethyl detection	*Journal of Applied Electrochemistry* 53, 2229-2238, 2023**.** **Impact Factor 2.9**
6	**Deenan Santhiya,** Asmita Das and Namit Dey	One-Pot Synthesis of Doxorubicin-Bioactive Glass-Ceramic Hybrid Nanoparticles through a Bio-Inspired Route for Anti-Cancer Therapy	*ChemistrySelect,* 8, e202203664, 2023. **Impact Factor 2.307**
7	**Indu Rani,** S.G.Warkar. Anil Kumar	Removal of Cationic Crystal Dye using Zeolite Embedded Carboxymethyl Tamarind Kernel Gum based Hydrogel Adsorbents	*ChemistrySelect* 8, e202301434, 2023. **Impact Factor 2.1**
8	**Indu Rani,** S.G.Warkar, Anil Kumar	Nano ZnO embedded poly (ethylene glycol) diacrylate cross-linked carboxymethyl tamarind kernel gum (CMTKG)/poly (sodium acrylate) composite hydrogels for oral delivery of ciprofloxacin drug and their antibacterial properties	*Materials today communications* 35, 105635, 2023. **Impact Factor 3.8**

S. No.	Authors	Paper Title	Journal with Publications details
9	**Jigyasa Pathak,** Poonam Singh	Adsorptive Removal of Congo Red Using Organically Modified Zinc–Copper–Nickel Ternary Metal Hydroxide: Kinetics, Isotherms and Adsorption Studies	*Journal of Polymers and the Environment* 31, 327-344, 2023. **Impact Factor 5.3**
10	**Kajal,** Ramender Kumar, Priyanka Meena*, Sudhir G. Warkar*	Development and characterization of pH-responsive CMTKG/ PAM/PEG hydrogel for oral administration of etophylline	*Colloid and polymer science* 301, 1313-1323, 2023**.** **Impact Factor 2.4**
11	**Manish Jain,** Jawad Iqbal, Arjun Tyagi,	Artificial neural network based modeling of liquid membranes for separation of dysprosium	*Journal of Rare Earths* 41, 440-445, 2023. **Impact Factor 4.9**
12	**Meenakshi Tanwar,** Archna Rani and Rajinder K. Gupta*	Synthesis and Characterization of Carboxymethylated Locust Bean Gum-co-poly(SA)-cl-poly(MBA) pH Responsive Hydrogel for Controlled Drug Delivery of Metformin Hydrochloride	*ChemistrySelect* 8, e202302525, 2023. **Impact Factor 2.1**
13	**Palak Garg,** Deeksha Thakur, Sakshi Verma, Owais Jalil, Devendra Kumar, Chandra Mouli Pandey	Biosynthesized rGO@ZnO-based ultrasensitive electrochemical immunosensor for bovine serum albumin detection	*Journal of Applied Electrochemistry* 53, 1449-1459, 2023. **Impact Factor 2.9**
14	**Pooja Singh,** Raminder Kaur	One pot synthesis of bio-based porous isocyanate-free polyurethane materials	*Materials Letters* 331, 133433, 2023. **Impact Factor 3**
15	**Priyanka Meena,** Poonam Singh, Sudhir. G. Warkar	Development and assessment of carboxymethyl tamarind kernel gum-based pH-responsive hydrogel for release of diclofenac sodium	*European Polymer journal* 197, 112340, 2023. **Impact Factor 6**
16	**Raminder Kaur,** Pooja Singh	Sustainable Xylose-Based Non-Isocyanate Polyurethane Foams with Remarkable Fire-Retardant Properties	*Journal of Polymers and the Environment* 31,743- 753, 2023. **Impact Factor 5.3**
17	**Ritika Kubba,** Mrityunjay Kumar Singh, Jyoti, Anil Kumar, Omprakash Yadav	Förster resonance energy transfer (FRET) between CdSe quantum dots and ABA phosphorus(V) corroles	*Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy journal* 291, 122345, 2023. **Impact Factor 4.4**
18	R.K. Gupta	Xanthan gum and lignin grafted chemically crosslinked hydrogel for dye removal: synthesis, characterization and isotherm studies	*Polym. Sci. Ser. A* ***65,*** 725–733 (2023). 10.1134/S0965545X23600552 **Impact Factor 3.4**

S. No.	Authors	Paper Title	Journal with Publications details
19	**Roli Purwar,** Radha Sachan	Soil burial degradation studies of photo-crosslinked PCL-PDMS-PCL triblock copolymer films	*Polymer Engineering and Science* 63, 4107-4117, 2023. **Impact Factor 2.57**
20	**Sakshi Verma,** C. M. Pandey, D Kumar	An Enzymatic Biosensor Based on MgO Nanoparticles Grafted on Reduced Graphene Oxide Nanoflakes for the Ultrasensitive Detection of Phenolic Compounds from Wastewater	*Chemistryselect* 8, e202302420, 2023. **Impact Factor 2.3**
21	**Saurav Kumar,** Anil Kumar, Nityananda Agasti, Gajendra Singh	Base-Mediated N-Acetylation of Anilines/Amines: Nitriles as a Surrogate of the Acetyl Group	*ChemistrySelect* 8, e202204679 (1 of 8), 2023. **Impact Factor 2.307**
22	**Shikha Rana,** Anil Kumar, Ravi Kumar Sharma and Natalia Fridman	Structural characterization and bioimaging of Zn2+ using meta-benziporphodimethene analogue	*Luminescence* vol. 38, Issue 7,pp. 1268-1274, 2023. **Impact Factor 2.9**
23	**Sudhir G. Warkar,** Ritu Malik, Reena Saxena	Carboxy-methyl tamarind kernel gum based bio-hydrogel for sustainable agronomy	*Materials Today Communications* vol.35, 105473, 2023. **Impact Factor 3.383**
24	**Sudhir G. Warkar,** Subodh K. Juikar	Biopolymers for packaging applications: An overview	*Packaging Technology and Science* vol.36, 229-251, 2023. **Impact Factor 2.6**
25	**Sweety,** Devendra Kumar	Electrochemical immunosensor based on titanium dioxide grafted MXene for EpCAM antigen detection	*Journal of Colloid and Interface Science* vol.652, pp.549-556, 2023. **Impact Factor 9.9**
26	**Tushar,** Yash Saraswat, Priyanka Meena*, Sudhir G. Warkar*	Synthesis and characterization of novel xanthan gum-based pH-sensitive hydrogel for metformin hydrochloride release	*Colloid and polymer science* 301, 1147-1158, 2023. **Impact Factor 2.4**
DEPARTMENT Of APPLIED MATHEMATICS			
1	**Aditya Kaushik,** Monika Choudhary	A higher-order defect correction method over an adaptive Bakhvalov-Shishkin mesh for advection-diffusion equations	*Iranian Journal of Science and Technology Transactions A: Science* 47, 1221-1232, 2023. **Impact Factor 1.7**
2	**Aditya Kaushik,** Himanshu Chaudhary, Ankita Kohli	Cosmological test of sigma/theta as a function of scale factor in f(R,T) framework	*New Astronomy* vol.103, 102044, 2023. **Impact Factor 2**
3	**Aditya Kaushik** Nitika Sharma,	A uniformly convergent difference method for singularly perturbed parabolic partial differential equations with large delay and integral boundary conditions	*Journal of Applied Mathematics and Computing* vol.69, pp.1071-1093, 2023. **Impact Factor 2.2**

S. No.	Authors	Paper Title	Journal with Publications details
4	**Anuma Garg,** Satyabrata Adhikari	Detection of the genuine non-locality of any three-qubit state	*Annals of Physics* vol.455, 169400, 2023. **Impact Factor 3**
5	**Satyabrata Adhikari,** Anuma Garg,	Strength of the nonlocality of two-qubit entangled state and its applications	*Physica Scripta* vol.98, pp.55101, 2023. **Impact Factor 2.9**
6	**Dhirendra Kumar** Himanshi Lohit and	Modified total Bregman divergence driven picture fuzzy clustering with local information for brain MRI image segmentation	*Applied Soft Computing* vol.144, 110460, 2023. **Impact Factor 8.7**
7	**Dhirendra Kumar**, Aaryan Gupta Inder Khatri,	A noise robust kernel fuzzy clustering based on picture fuzzy sets and KL divergence measure for MRI image segmentation	*Applied Intelligence* vol.53, pp.16487–16518, 2023. **Impact Factor 5.3**
8	**Dhirendra Kumar,** Rinki Solanki	Probabilistic intuitionistic fuzzy c-means algorithm with spatial constraint for human brain MRI segmentation	*Multimedia Tools and Applications* vol.82, pp.33663–33692, 2023. **Impact Factor 3.6**
9	**Goonjan Jain,** Neha Punetha Bayesian Game	Bayesian Game Model based Unsupervised Sentiment Analysis of product reviews	*Expert Systems with Applications* vol.214, 119128, 2023 **Impact Factor 8.5**
10	**Goonjan Jain,** Neha Punetha	Aspect and orientation-based sentiment analysis of customer feedback using mathematical optimization models	*Knowledge and Information Systems* vol. 65(6) pp.2731-2760, 2023. **Impact Factor 2.7**
11	**Kartikay Khari,** Vivek Kumar .	An iterative analytic approximation for a class of nonlinear singularly perturbed parabolic partial differential equations	*Soft Computing* vol.27, pp.16279–16291, 2023. **Impact Factor 4.1**
12	**Monika Choudhary**, Aditya Kaushik	A uniformly convergent defect correction method for parabolic singular perturbation problems with a large delay	*Journal of Applied Mathematics and Computing* vol.69, pp.1377-1401, 2023. **Impact Factor 2.2**
13	**Neha Punetha** Goonjan Jain	Unsupervised sentiment analysis of Hindi reviews using MCDM and game model optimization techniques	*Sadhana* vol.48, 45304, 2023. **Impact Factor 1.6**
14	**Neha Punetha** Goonjan Jain	Game theory and MCDM-based unsupervised sentiment analysis of restaurant reviews	*Applied Intelligence* vol.53, pp.20152–20173, 2023. **Impact Factor 5.3**
15	**Nilam,** Ankit Sharma	Computer-controlled diabetes disease diagnosis technique based on fuzzy inference structure for insulin-dependent patients	*Applied Intelligence* vol.53, pp.1945-1958, 2023. **Impact Factor 5.3**

S. No.	Authors	Paper Title	Journal with Publications details
16	**Nilam**	Dynamics of a nonlinear epidemic transmission model incorporating a class of hospitalized individuals: a qualitative analysis and simulation	*Journal of Physics A: Mathematical and Theoretical* vol.56, pp. 415601, 2023. **Impact Factor 2.1**
17	**Parul Chauhan**, Anjana Gupta, Tanya Malhotra	A novel cloud model based on multiplicative unbalanced linguistic term set	*The Journal of Supercomputing* vol.79, pp.16378–16408, 2023. **Impact Factor 3.3**
18	**Radhika Kavra,** Anjana Gupta, Sangita Kansal	Optimization of energy and delay on interval data based graph model of wireless sensor networks	*Wireless Networks* vol.29, pp.2293-2311, 2023. **Impact Factor 3**
19	Simran Kaur	Viscous Cosmology in Holographic Dark Energy with Granda-Oliveros Cut-off	*Communications in Theoretical Physics* vol.75, pp.25401, 2023. **Impact Factor 3.1**
20	**Surya Giri**, S. Sivaprasad Kumar	Hermitian–Toeplitz determinants for certain univalent functions	*Analysis and Mathematical Physics* vol.13, pp.45310, 2023. **Impact Factor 1.7**
21	**Tanya Malhotra** and Anjana Gupta	Probabilistic multiplicative unbalanced linguistic term set and its application in matrix games	*International Journal of Machine Learning and Cybernetics* vol.14, pp.1253-1283, 2023. **Impact Factor 5.6**
22	**Vinita Khatri**, C.P. Singh	Constraining the time-varying vacuum energy models in Brans-Dicke theory	*Astrophysics and Space Science* vol.368, pp.16, 2023. **Impact Factor 1.9**
23	**Vinita Khatri**, C.P. Singh	Brans-Dicke cosmology with cosmological term $\Lambda (H) = c_0 + 3\nu H^2$	*Physics of the Dark Universe* vol.42, pp.101300, 2023. **Impact Factor 5.5**
24	**Vivek Kumar Aggarwal,** Günter Leugering	Convection dominated singularly perturbed problems on a metric graph	*Journal of Computational and Applied Mathematics* vol.425,pp. 115062, 2023. **Impact Factor 2.4**
DEPARTMENT Of APPLIED PHYSICS			
1	**A.S. Rao** Pooja Rohilla,	Energy transfer induced colour tunable photoluminescence performance of thermally stable Sm3+/Eu3+ co-doped Ba3MoTiO8 phosphors for white LED applications	*Journal of Materials Science:Materials in Electronics* vol.34, issue 23, pp. 1662, 2023. **Impact Factor 2.8**
2	**A.S. Rao** Anu,	Luminescence and optical thermometry strategy based on emission spectra of Li2Ba5W3O15:Pr3+ phosphors	*Optical Materials* vol.145, 114476, 2023. **Impact Factor 3.9**

S. No.	Authors	Paper Title	Journal with Publications details
3	**A.S. Rao** Kartika Maheshwari,	Down-shifting photoluminescent properties of Tb3+ doped phosphate glasses for intense green-emitting devices applications	*Optical Materials,* vol.137, 113533, 2023. **Impact Factor 3.9**
4	**Anchli Jain,** Amrish K Panwar, Pawan K Tyagi	Tuning the electrical and cycling performance of nickel manganese oxide hexagonal-shaped particles via preparation routes for Lithium-ion Batteries	*Journal of Physics D: Applied Physics* vol.56, 385501, 2023. **Impact Factor 3.4**
5	**Aneesha,** Mohan Singh Mehata, Nobuhiro Ohta	In situ synthesis of WS2 QDs for sensing of H2O2: Quenching and recovery of absorption and photoluminescence	*Materials Today Communications* vol.34, 105013, 2023. **Impact Factor 3.662**
7	**Anu,** A.S. Rao, A. Kumar, Ravina, N. Deopa	Efficient tunable photoluminescence of Dy3+/Eu3+ co-doped OfSZBS glasses for warm white LEDs	*Journal of Non-Crystalline Solids* vol.616, 122421, 2023. **Impact Factor 4.458**
8	**Anu,** A.S. Rao	Novel orange-red-emitting Li2Ba5(WO5)3:Eu3+ phosphor for w-LEDs and non-contact thermometry applications	*Journal of Materials Science: Materials in Electronics* vol.34, issue 33, pp. 2191, 2023. **Impact Factor 2.8**
10	**Ashok,** Rajendra S. Dhaka, Vinod Singh	Structural, vibrational and electronic properties of Nb substituted orthovanadates LaV1− xNbxO4	*Journal of Alloys and Compounds* vol.966, 171506, 2023. **Impact Factor 6.371**
11	**Bharti Singh** Vishal Singh	MoS2-PVDF/PDMS Based Flexible Hybrid Piezo-Triboelectric Nanogenerator for Harvesting Mechanical Energy	*Journal of Alloys and Compounds* vol.941, 168850, 2023. **Impact Factor 6.2**
12	**Bharti Singh** Shilpa Rana	Polymer nanocomposite film based piezoelectric nanogenerator for biomechanical energy harvesting and motion monitoring	*Journal of Materials Science: Materials in Electronics* vol.34, 1764, 2023. **Impact Factor 2.8**
13	**Bharti Singh** Km. Komal, Mukhtiyar Singh,	One step hydrothermal synthesis of MoS2-SnO2 nanocomposite for resistive switching memory application	*Journal of Materials Science: Materials in Electronics* vol.34, 1351, 2023. **Impact Factor 2.8**
14	**Bhavya Kumar,** Megha Sharma, Rishu Chaujar	Junctionless-accumulation-mode stacked gate GAA FinFET with dual-k spacer for reliable RFIC design	*Microelectronics Journal* vol.139, 105910, 2023. **Impact Factor 2.2**

S. No.	Authors	Paper Title	Journal with Publications details
15	**Bhavya Kumar,** Megha Sharma, Rishu Chaujar	Gate electrode work function engineered JAM-GS-GAA FinFET for analog/RF applications: Performance estimation and optimization	*Microelectronics Journal* vol.135, 105766, 2023. **Impact Factor 2.2**
17	**Himank Sagar,** Suresh C. Sharma, Ruby Gupta	Dust density effects on electron density gradient driven lower hybrid waves in magnetized plasma	*Contributions to Plasma Physics*, vol.63,issue 8, e202300047, 2023. **Impact Factor 1.6**
18	**Kailash Chandra** Vinod Singh, Pawan K. Kulriya & Saurabh K. Sharma	La3+ substitution effect on structural and magnetic properties of frustrated Ho2Ti2O7 pyrochlore	*Journal of Alloys and Compounds* vol.937, 168311, 2023. **Impact Factor 6.37**
19	**Kartika Maheshwari,** Yasha Tayal, A.S.Rao, Ravita, Aman Prasad	Spectroscopic studies of Pr3+ doped red-emitting BaO–ZnO–Li2O–P2O5 glasses for luminescent devices applications	*Optical Materials* vol.140, 113910, 2023. **Impact Factor 3.9**
20	**Kartika Maheshwari,** Yasha Tayal, Prof A.S. Rao, Aman Prasad, Ravita Pilania, Shaik. Mahamuda	Thermally stable multi-color emitting Dy3+/ Eu3+ co-doped BaO–ZnO–Li2O–P2O5 glasses for w-LEDs	*Journal of Materials Science : Materials in electronics* vol.34, 2059, 2023. **Impact Factor 2.8**
21	**M. Jayasimhadri,** Deepali	Effect of sensitizer on the luminescence of thermally stable Eu3+-activated metasilicate phosphor for solar cell applications	*Journal of Materials Science: Materials in Electronics* vol.34, 1999, 2023. **Impact Factor 2.8**
22	**M. Jayasimhadri,** Muskan, Pranjali Sharma, Deepali	Exploration of efficient photoluminescence properties of intense green emitting Er3+ activated NaBi(MoO4)2 phosphor for white LED applications	*Journal of Materials Research* vol.38, pp.4655-4664, 2023. **Impact Factor 2.7**
23	**M. Jayasimhadri,** Deepali	Structural and photoluminescence features of thermally stable red-emitting Pr3+-doped sodium calcium metasilicate phosphor for w-LED applications	*Bulletin of Materials Science* vol.46, 230, 2023. **Impact Factor 1.8**
24	**Mohan Singh Mehata** Samiksha Shukla,	Selective picomolar detection of carcinogenic chromium ions using silver nanoparticles capped via biomolecules from flowers of Plumeria obtusa.	*Journal of Molecular Liquids* vol.380, 121705, 2023. **Impact Factor 6**

S. No.	Authors	Paper Title	Journal with Publications details
25	**Mohan Singh Mehata,** Aneesha	Selectively probing ferric ions in aqueous environments using protonated and neutral forms of 7-azaindole as a multiparametric chemosensor.	*Photochemical & Photobiological Sciences* vol.22, pp.1505–1516, 2023**.** **Impact Factor 3.1**
26	Mohan Singh Mehata	Effect of halide ions on the fluorescence properties of 3-aminoquinoline in aqueous medium	*Luminescence* vol.38, 1192-1198, 2023. **Impact Factor 2.9**
27	**Mohan Singh Mehata** Aneesha	In situ synthesis of WS2 QDs for sensing of H2O2: Quenching and recovery of absorption and photoluminescence.	*Materials Today Communications,* vol.34, 105013, 2023. **Impact Factor 3.8**
28	Mohan Singh Mehata	Excited-state properties of 6-methoxyflavone in the presence of halide ions in aqueous media	*Methods and Applications in Fluorescence* vol.11, 045002, 2023. **Impact Factor 3.2**
29	**Mohan Singh Mehata** Neha Bhatt,	A sustainable approach to develop gold nanoparticles with Kalanchoe fedtschenkoi and their interaction with protein and dye: Sensing and catalytic probe	*Plasmonics* vol.18, pp. 845–858, 2023. **Impact Factor 3**
30	**Mukhtiyar Singh,** Sangeeta	Augmented thermoelectric performance of LiCaX (X = As, Sb) Half Heusler compounds via carrier concentration optimization	*Journal of Physics and Chemistry of Solids* vol.174, 111182, 2023. **Impact Factor 4**
31	**Mukhtiyar Singh,** Rajesh Kumar	Monoclinic to cubic structural transformation, local electronic structure, and luminescence properties of Eu-doped HfO2	*Applied Physics A: Materials Science & Processing* vol.129, 712, 2023. **Impact Factor 2.7**
32	**Neha Bhatt,** Mohan Singh Mehata	A Sustainable Approach to Develop Gold Nanoparticles with Kalanchoe fedtschenkoi and Their Interaction with Protein and Dye: Sensing and Catalytic Probe	*Plasmonics* vol.18, pp.845 - 858, 2023. **Impact Factor 3**
33	**Nitin Kumar Puri** Anmol Aggarwal, Ashi Mittal	Diving deep into the milky way using anti-reflection coatings for astronomical CCDs	*Journal of Astrophysics and Astronomy* vol.44, 74, 2023. **Impact Factor 1.1**
34	**Nitin Kumar Puri** Nikita Jain	Zinc oxide incorporated molybdenum diselenide nanosheets for chemiresistive detection of ethanol gas	*Journal of Alloys and Compounds* vol.955, 170178, 2023. **Impact Factor 6.2**

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35	**Nitin Kumar Puri** Sandeep Sarpal	Graphene oxide-Mn3O4 nanocomposites for advanced electrochemical biosensor for fumonisin B1 detection	*Nanotechnology* vol.34, 465708, 2023. **Impact Factor 3.5**
36	**Pawan Kumar Tyagi,** Naima and Vinod Singh	Potential application of novel graphene/diamane interface in silicon-based heterojunction with intrinsic thin layer solar cell	*Computational Materials Science*, 226, pp. 112252 2023. **Impact Factor 3.3**
37	**Pooja Rohilla,** A. S. Rao	Structural and Luminescence studies on Bi3+ activated Ba3MoTiO8 phosphor for near UV pumped w-LED applications	*International Journal of Applied Ceramic Technology* 21, 1208-1219, 2023. **Impact Factor 2.1**
38	**Priya Pradeep Kumar,** Vinod Singh	Utilization of Active Carbon Black With SnO2/MoS2 Nanocomposites for the Efficient Detection of NO2 Molecules	*IEEE Sensors Journal* vol.23, pp.28626-28632, 2023. **Impact Factor 4.3**
39	**Priyanka,** Rinku Sharma	ImPurity-modulated physical and transport properties in a InxGa1-xAs double quantum wire	*Physica B: Condensed Matter* vol.659, 414845, 2023. **Impact Factor 2.8**
40	**Priyanka,** Rinku Sharma	Impact of imPurity on the non-linear and linear optical properties of InxGa1-xAs quantum dot	*Solid State Communications* vol. 366-367, pp. 115155, 2023. **Impact Factor 2.1**
41	**Priyanka,** Rinku Sharma, Manoj Kumar	Effect of hydrostatic pressure and temperature on the ballistic conductance under the influence of Rashba spin-orbit coupling	*Physica B: Physics of Condensed Matter* vol.648, 414402, 2023. **Impact Factor 2.8**
42	**Rahul Kundara** and Sarita Baghel	Device modelling of lead free (CH3NH3)2CuX4 based perovskite solar cells using SCAPS simulation	*Optical and Quantum Electronics,* vol.55, 968, 2023. **Impact Factor 3**
43	**Rajat Bajaj,** Pooja Rohilla, Allam Srinivasa Rao, Aman Prasad, Ravita, Ankur Shandilya,	Thermally stable Sm3+-doped alkali zinc alumino borosilicate (AZABS) glass for warm white light generation and w-LED applications	*Luminescence,* vol. 38, pp.428-436, 2023. **Impact Factor 2.9**
44	**Rajesh Gupta**, Suresh C. Sharma	Beam Driven Growth of Lower Hybrid Wave in a Magnetized Relativistic Beam Plasma System	*Journal of Fusion Energy,* vol. 42, 25, 2023. **Impact Factor 1.793**
45	Rajesh Gupta	Generation of Obliquely Propagating Shear Alfven Wave in Dusty Plasma by Ion Beam	Contributions to Plasma Physics Volume63, Issue 3-4 May 2023 e202200178 **Impact Factor 1.3**

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46	**Rajesh Kumar**, Sangeeta, Mukhtiyar Singh, Ramesh K. Bibiyan, Ankush Vij	An ab-initio study of induced half metallic ferromagnetism in Hf–Nb alloy oxides	*The European Physical Journal Plus,* vol. 138, pp. 561, 2023. **Impact Factor 3.4**
47	**Ravindra Kumar Sinha** Varnam Sherawat, Renuka Bokolia,	Studies on temperature-dependent bandgap and gap-to-midgap ratio in diamond lattice photonic crystal with biosensing applications	*Optical Materials,* vol.145, pp. 114470,2023, **Impact Factor 3.8**
48	**Renuka Bokolia**, Ankita Banwal	Efficient tunable temperature sensitivity in thermally coupled levels of Er3+/Yb3+ co-doped BaBi2Nb2O9 ferroelectric ceramic	*Journal of Luminescence,* Vol. 265, Issue 7, pp. 120071 **Impact Factor 3.2**
49	**Richa Paijwar,** Rinku Sharma	Theoretical study of the atomic parameters, plasma parameters and photoionization of W LXIV.	*The European Physical Journal Plus,* vol. 138, 1120, 2023. **Impact Factor 3.4**
50	**Richa Paijwar,** Rinku Sharma	Study of SXR and HXR transitions with intensity spectra of W LXIX	*The European Physical Journal Plus,* vol. 138, 460, 2023. **Impact Factor 3.4**
51	**Richa Sharma,** Komal Verma	A flexible piezoelectric generator based on KNN/PVDF composite films: Role of KNN concentration on the piezoelectric performance of generator	*Chinese Journal of Physics,* vol. 84, pp.198 - 215, 2023. **Impact Factor 5**
52	**Rinku Sharma**, Sakshi Arora, Yash Gupta, Pranay Khosla, Priyanka	Impact of ImPurity on the Mean Energy, Heat Capacity, Free Energy, Entropy and Magnetocaloric Effect of Ga1-χAlχAs Quantum Wire	*Journal of Low Temperature Physics,* vol. 212(1-2) pp. 54-68, 2023. **Impact Factor 1.618**
53	**Rinku Sharma**, Sakshi Arora, Yash Gupta, Pranay Khosla, Priyanka	Hydrostatic Pressure Effect on the Thermodynamic Properties of Quantum Wire Under a Crossed Electromagnetic Field.	*Journal of Low Temperature Physics,* vol. 213(1-2), pp.92-106, 2023. **Impact Factor 1.618**
54	**Rinku Sharma**, Sakshi Arora, Yash Gupta, Pranay Khosla, Priyanka	Thermodynamic Properties of Conical Quantum Dot Modulated by External Fields and Rashba Spin–Orbit Interaction	*Journal of Low Temperature Physics,* vol. 213(5-6), pp. 251-263, 2023. **Impact Factor 1.618**
55	**Rishu Chaujar,** Mekonnen Getnet	Sensitivity Investigation of Junctionless Gate-all-around Silicon Nanowire Field-Effect Transistor-Based Hydrogen Gas Sensor	*Silicon,* vol. 15(1), pp. 609-621, 2023. **Impact Factor 3.4**
56	**Rishu Chaujar,** Megha Sharma, Bhavya Kumar	Small signal and noise analysis of T-gate HEMT with polarization doped buffer for LNAs	*Micro and Nanostructures,* vol. 180, 207593, 2023. **Impact Factor 3.1**

S. No.	Authors	Paper Title	Journal with Publications details
57	**Rishu Chaujar,** Megha Sharma, Bhavya Kumar	Polarization induced doping and high-k passivation engineering on T-gate MOS-HEMT for improved RF/microwave performance	*Material science and Engineering: B,* vol. 290, pp.116298, 2023. **Impact Factor 3.6**
58	**Rohan Bhatia**, Utkarsh Ramachandra, V. Anirudh, Mansha Kansal and Suresh C. Sharma	Terahertz Metamaterial Absorber Based on Graphene with Properties Optimised by Investigation of Plasma Parameters for Improved Device Performance	*ECS Journal of Solid State Science and Technology,* vol. 12(7), pp. 071003, 2023. **Impact Factor 2.48**
59	**Sandeep Sharma**, Sumandeep Kaur, A.S. Rao, Kamal Kishor	Thermally stable illuminating characteristics of Tb3+/Sm3+ ions activated BaO–SrO–Al2O3–B2O3–SiO2 glasses for photonic applications	*Optical Materials,* vol. 145, 114446, 2023. **Impact Factor 3.9**
60	**Sheetal Kumari**, A. S. Rao & R. K. Sinha	Structural and photoluminescence properties of Sm3+ ions doped strontium yttrium tungstate phosphors for reddish-orange photonic device applications	*Materials Research Bulletin,* vol. 167, 112419, 2023. **Impact Factor 5.4**
61	**Sheetal Kumari,** Anu, Pooja Rohilla & A.S. Rao, Aman Prasad	Prospective applications of thermally stable Dy3+ doped potassium zinc strontium borate (KZSB) glasses in w-LEDs	*Journal of Materials Science: Materials in electronics,* vol. 34(10), 907, 2023. **Impact Factor 2.8**
62	**Shivangi Rajput,** Amrish K. Panwar, Amit Gupta	Study of Lithium diffusion properties and electrochemical performance of SnSe/C and SnSe/MWCNT composite anode for Li-ion Batteries	*Solid State Ionics,* vol. 394, 116206, 2023. **Impact Factor 3.699**
63	**Suman Dahiya,** Rinku Sharma, Siddhartha Lahon	Study of third harmonic generation in InxGa1−xAs semi-parabolic 2-D quantum dot under the influence of Rashba spin-orbit interactions (SOI): Role of magnetic field, confining potential, temperature & hydrostatic pressure	*Physica E: Low-dimensional Systems and Nanostructures,* vol. 147, 115620, 2023. **Impact Factor 3.3**
64	**Sumandeep Kaur**, Videsh Kumar and A. S. Rao	Deep red emission from rare-earth-free calcium alumino zincate phosphor with the substitution of Cr 3+ ion	*RSC advances,* vol. 13, 16663-16670, 2023. **Impact Factor 3.9**
65	**Suresh C. Sharma,** Jyoti, R.P. Sharma	Localization and turbulence of Beam-Driven Whistler wave with Magnetosonic wave in Magnetopause	*Physics of Plasmas,* vol. 30(2), 022904, 2023. **Impact Factor 2.023**

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66	**Suresh C. Sharma,** Sagar Khanna	Theoretical Modeling and Numerical Simulation of enhanced graphene growth under the influence of oxidizers in RF-PECVD plasma using finite element method	*The European Physical Journal Plus,* vol. 138(4), 321, 2023. **Impact Factor 3.69**
67	**Suresh C. Sharma,** Kavita Segwal, Harender Mor	Low Frequency Waves in a Strongly Correlated Collisional Magnetized Dusty Plasma Cylinder	*IEEE Transaction on Plasma Science,* vol.51(10), pp. 3234-3242, 2023. **Impact Factor 1.5**
68	**Umang Berwal**, Vinod Singh, Rinku Sharma, Ashok Kumar, Pawan Kumar Kulriya	Influence of Al3+ co-doped ions for the improvement of orange reddish light emitting photoluminescence characteristics of Gd2Ti2O7:Eu3+ Pyrochlore	*Ceramics International,* vol. 49(21), 34015-34024, 2023. **Impact Factor 5.2**
69	**Vibha Sharma**, Shreya Maurya, Anu, Allam Srinivasa Rao, Aman Prasad	Structural, optical, and luminescence properties of Dy3+-activated potassium calcium silicate phosphor for white light-emitting diodes	*Luminescence-The journal of biological and chemical luminescence,* vol. 38(9), 1607-1617, 2023. **Impact Factor 2.613**
70	**Vijay Singh Meena,** Mohan Singh Mehata, Ajay Kumar Saini Anand Singh Sumit Jain Ranveer Singh - SSPL	Structural, compositional, morphological and electrical characteristics of thermally evaporated Au Ohmic Contact on p-type HgCdTe substrate for possible infrared detectors	*Optical Materials,* vol. 141, 113943, 2023. **Impact Factor 3.9**
71	Vijay Singh Meena	Design and development of four-layer anti-reflection coating stacks (ZnS and YF3 Thin Films) for HgCdTe-based mid-wave infrared detectors	*Materials Science in Semiconductor Processing* vol.163, 107556, 2023. **Impact Factor 4.1**
72	**Vinod Singh**, Umang Berwal, Rinku Sharma	Structural and optical studies on Dy3+ doped Gd2Ti2O7 pyrochlore as white light emission	*Ceramics International,* vol. 49 (6), 8897-8906, 2023. **Impact Factor 5.2**
73	**Vinod Singh**, Umang Berwal, Rinku Sharma	Effect of Ce4+→Ce3+ conversion on the structural and luminescence properties of Ce4+ doped Gd2Ti2O7 pyrochlore oxide	*Journal of Luminescence,* vol. 257, 119687, 2023. **Impact Factor 3.6**
74	**Vinod Singh**, Kailash Chandra, Saurabh K. Sharma, Pawan K. Kulriya	Probing the influence of Ho3+ doping on structural and magnetic properties of (Gd1−yHoy)2Ti2O7 pyrochlore	*Journal of Alloys and Compounds,* vol. 960, 170779, 2023. **Impact Factor 6.2**
75	**Vishal Singh**, Bharti Singh	PDMS/PVDF-MoS2 based flexible triboelectric nanogenerator for mechanical energy harvesting	*Polymer,* vol. 274, 125910, 2023. **Impact Factor 4.6**

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76	**Yash Pathak**, Bansi Dhar Malhotra, Rishu Chaujar	DFT based atomic modeling and Analog/RF analysis of ferroelectric HfO2 based improved FET device	*Physica Scripta,* vol. 98(8), pp. 085933, 2023. **Impact Factor 2.9**
77	**Yasha Tayal**, Kartika Maheshwari, Mohit. Kumar, A.S. Rao, R.A. Talewar, Sk. Mahamuda, A. Prasad	Spectral characterization and energy transfer study of Nd3+/Yb3+ in borosilicate glasses	*Optical Materials,* vol. 142, 114049, 2023. **Impact Factor 3.754**
78	**Yogita Kalra,** Ritika Ranga, Kamal Kishor, Nishant Shankhwar	Ultra-narrow band perfect absorber for sensing applications in the visible region	*The European Physical Journal D,* vol. 77(3), pp. 42, 2023. **Impact Factor 1.8**
DEPARTMENT Of BIO- TECHNOLOGY			
1.	**Anuradha** Navneeta Bharadvaja	Exploring different computational approaches for effective diagnosis of breast cancer	*Progress in Biophysics and Molecular Biology*, vol 177, pp.141-150,2023. **Impact Factor:3.8**
2.	**Asmita Das** Sunil Kumar	Peripheral blood mononuclear cell derived biomarker detection using eXplainable Artificial Intelligence (XAI) provides better diagnosis of breast cancer	*Computational Biology and Chemistry*, vol. 104, 107867,2023. **Impact Factor:3.1**
3.	**Asmita Das** Shweta Gulia Prakash Chandra	The Prognosis of Cancer Depends on the Interplay of Autophagy, Apoptosis, and Anoikis within the Tumor Microenvironment.	*Cell Biochemistry and Biophysics*, vol. 81,issue4, pp.621-658,2023. **Impact Factor:2.6**
4.	**Asmita Das** Prakash Chandra Ritu	Immune checkpoint targeting antibodies hold promise for combinatorial cancer therapeutics	*Clinical and Experimental Medicine*, vol. 23,issue 8, pp.4297-4322,2023. **Impact Factor:4.6**
5.	**Asmita Kumari,** Garima, Navneeta Bharadvaja	A comprehensive review on algal nutraceuticals as prospective therapeutic agent for different diseases	*Biotech*, vol. 13,issue 2, 44,2023. **Impact Factor:2.8**
6.	**Jai Gopal Sharma** Parul Puri Ram Singh	M i c r o - / b i o - / n a n o - / s y n - encapsulations and co-treatments of bioactive microbial feed supplementation in augmenting finfish health and aquaculture nutrition: a review	*Beneficial Microbes*, vol. 14, Issue 3, pp. 281-302,2023. **Impact Factor:5.4**
7.	**Jai Gopal Sharma** Parul Puri Ram Singh	Biotherapeutic microbial supplementation for ameliorating fish health: developing trends in probiotics, prebiotics, and synbiotics use in finfish aquaculture	*Animal Health Research Reviews*, vol.23,issue 2, pp.113-135,2022. **Impact Factor:2.5**

S. No.	Authors	Paper Title	Journal with Publications details
8.	**Khyati Joshi** Pravir Kumar Rashmi Kataria	Microbial carotenoid production and their potential applications as antioxidants: A current update	*Process Biochemistry*, vol.128, pp.190-205,2023. **Impact Factor:4.4**
9	Madhulika Singh Jai Gopal Sharma, Bhoopander Giri	Microbial inoculants alter resilience towards drought stress in wheat plants	*Plant Growth Regulation*, vol. 101, issue3, pp.823-843,2023. **Impact Factor: 4**
10.	Madhulika Singh Jai Gopal Sharma, Bhoopander Giri	Microbial inoculants improve growth in Zea mays L. under drought stress by up-regulating antioxidant, mineral acquisition, and ultrastructure modulations	*Symbiosis*, vol. 91,issue 1, pp.55-77,2023. **Impact Factor:2.9**
11.	**Megha Bansal** Jai Gopal Sharma Deenan Santhiya	Exploring the Impacts of HDPE Microplastics on Growth and Physiological Behavior of Brassica juncea (Mustard Plant)	*Water, Air, & Soil Pollution*, vol.234,issue 8, pp. 520,2023. **Impact Factor:2.9**
12.	**Megha Kumari** Palkin Arora, Priyanka Sharma, Yasha Hasija, Poonam Rana, Maria M. D'souza, Namas Chandra & Richa Trivedi	Acute metabolic alterations in the hippocampus are associated with decreased acetylation after blast induced TBI.	*Metabolomics*, vol.19,issue1, 5,2023. **Impact Factor:3.6**
13.	Navneeta Bharadvaja	Aromatic plants: a multifaceted asset	*Brazilian Journal of Botany*, vol. 46,issue2, pp.241-254,2023. **Impact Factor:1.6**
14.	**Navneeta Bharadvaja** Vandana Joshi	Current Prospects and Clinical Status of Microalgae Derived Chemotherapeutics	*Revista Brasileira de Farmacognosia*, vol. 33,issue 3, pp.445-470,2023. **Impact Factor:1.6**
15.	**Navneeta Bharadvaja** Shruti Gautam Harshita Singh	Natural polyphenols: a promising bioactive compound for skin care and cosmetics.	*Molecular Biology Reports*, vol. 50,issue 6, pp.1817-1828,2023. **Impact Factor:2.8**
16.	**Neha Tiwari** Deenan Santhiya Jai Gopal Sharma	Degradation of polyethylene microplastics through microbial action by a soil isolate of Brevibacillus brevis	*Polymer Degradation and Stability*, vol.215, 110436,2023. **Impact Factor:5.9**
17.	**Prakash Chandra** Shreya Dutta Rabi Butola Bhupendra Pratap Singh	Development of Conducting Biopolymer-Based Biosensor for Heavy-Metal Ion Detection	*ECS Journal of Solid State Science and Technology*, vol. 12,issue 11, 117001,2023. **Impact Factor:2.2**
18.	**Prakash Chandra** Sushant Sunder Kriti Bhandari Shruti Sounkaria Manjari Vyas Bhupendra Pratap Singh	Antibiotics and nano-antibiotics in treatment of lung infection: In management of COVID-19	*Microbial Pathogenesis*, vol. 184, pp. 106356,2023. **Impact Factor:3.8**

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19.	**Pravir Kumar** Nancy Sanjay Gupta	Perspective of artificial intelligence in healthcare data management: A journey towards precision medicine	*Computers in Biology and Medicine*, vol. 162, pp. 107051,2023. **Impact Factor:7.7**
20.	**Priya** Ishita Virmani Pragya Ravi Kumar Goswami Bijender Singh, Jai Gopal Sharma, Bhoopander Giri	Role of microbial phytases in improving fish health	*Reviews in Aquaculture*, vol. 15,issue 4, pp.1480-1500,2023. **Impact Factor:10.6**
21.	**Rahul Tripathi** Pravir Kumar	Preliminary study to identify CXCR4 inhibitors as potential therapeutic agents for Alzheimer's and Parkinson's diseases	*Integrative Biology,* vol. 15,2023. **Impact Factor:2.5**
22.	**Raksha Anand** Lakhan Kumar, Lalit Mohan & Navneeta Bharadvaja	Nano-inspired smart medicines targeting brain cancer: diagnosis and treatment	*JBIC Journal of Biological Inorganic Chemistry*, vol. 28, issue1, pp.1-15,2023. **Impact Factor:3**
23.	**Rohan Gupta** Pravir Kumar Smita Kumari Rahul Tripathi Rashmi K. Ambasta	Unwinding the modalities of necrosome activation and necroptosis machinery in neurological diseases	*Ageing Research Reviews* vol.86, 101855,2023. **Impact Factor:13.1**
24.	**Rohan Gupta** Pravir Kumar Smita Kumari Rahul Tripathi Anusha Senapati Rashmi K. Ambasta	New era of artificial intelligence and machine learning-based detection, diagnosis, and therapeutics in Parkinson's disease	*Ageing research reviews*, 102013,2023. **Impact Factor: 13.1**
25.	**Rohan Gupta** Pravir Kumar Divya Yadav Dia Advani Rashmi K. Ambasta	Dissecting the Relationship Between Neuropsychiatric and Neurodegenerative Disorders	*Molecular Neurobiology*, vol. 60,issue 11, pp.6476-6529,2023. **Impact Factor:5.1**
26.	**Roopal Pal** Lakhan Kumar, Shaubhik Anand & Navneeta Bharadvaja	Role of Natural Flavonoid Products in Managing Osteoarthritis	*Revista Brasileira de Farmacognosia*, vol. 33,issue 4, pp.663-675,2023. **Impact Factor:1.6**
27.	**Simran Kaur,** Niharika Gupta, Bansi Dhar Malhotra	Recent developments in wearable & non-wearable point-of-care biosensors for cortisol detection	*Expert Review of Molecular Diagnostics*, vol. 23,issue 3, 217-230,2023. **Impact Factor:5.1**
28.	**Smita Kumari** Rohan Gupta Rashmi K. Ambasta Pravir Kumar	Multiple therapeutic approaches of glioblastoma multiforme: From terminal to therapy	*Biochimica et Biophysica Acta (BBA)-Reviews on Cancer*, vol. 188913,2023. **Impact Factor:11.2**

S. No.	Authors	Paper Title	Journal with Publications details
29.	**Smita Kumari** Rohan Gupta Rashmi K. Ambasta Pravir Kumar	Emerging trends in post-translational modification: Shedding light on Glioblastoma multiforme	*Biochimica et Biophysica Acta (BBA)-Reviews on Cancer*, vol. *1878*(6), 188999,2023. **Impact Factor:11.2**
30.	**Smita Rastogi Verma** Tarunya Menon, Shubhang Gopal,	Targeted therapies in non-small cell lung cancer and the potential role of AI interventions in cancer treatment	*Biotechnology and Applied Biochemistry*, vol. 70,issue1, pp.344-356,2023. **Impact Factor:2.8**
31.	**Smita Rastogi Verma** Saksham Garg, Japneet Singh	Targeting Y220C mutated p53 by Foeniculum vulgare derived phytochemicals as cancer therapeutics	*Journal of Molecular Modeling*, vol. 29,issue2, 55,2023. **Impact Factor:2.2**
32.	**Sudhanshu Sharma** Pravir Kumar	Dissecting the functional significance of HSP90AB1 and other heat shock proteins in countering glioblastomas and ependymomas using omics analysis and drug prediction using virtual screening. .	*Neuropeptides*, vol.102, 102383, 2023. **Impact Factor:2.9**
33.	**Yasha Hasija** Jaishree Meena	Rare deleterious mutations in Bruton's tyrosine kinase as biomarkers for ibrutinib-based therapy: an in silico insight	*Journal of Molecular Modeling*, vol.*29,*issue 4, 120,2023. **Impact Factor: 2.2**
35	Yasha Hasija	Utilizing Deep Learning to Explore Chemical Space for Drug Lead Optimization	*Expert Systems with Applications* Volume 229, Part A, 1 November 2023, 120592 **Impact Factor 8.5**
DEPARTMENT Of CIVIL ENGINEERING			
1.	**Archita Goyal,** Amit Kumar Shrivastava	Optimization of helical soil nailing behaviors by response surface methodology and hybrid coot optimization	***I****nternational Journal for Numerical and Analytical Methods in Geomechanics*, vol.*47,issue*9, pp.1658-1680,2023. **Impact Factor 3.4**
2.	**Deepak Singh,** Munendra Kumar	Effect of the Inlet-to-Outlet Key width ratio of Piano Key Weir on its Hydraulic Behaviour.	*Flow Measurement and Instrumentation*, vol. *91*, pp.102342,2023. **Impact Factor 2.3**
3.	**Manoj Kumar Kalra;** Ashutosh Trivedi; Sanjay Kumar Shukla	Nonlinear Regression Analysis of Rut Profile Data for Optimal Data Storage and Efficient Terrain Condition Analysis	***I****EEE Geoscience and Remote Sensing Letters, vol. 20, pp. 1-5, 2023, pp. 6501305*,2023. **Impact Factor 4.8**

S. No.	Authors	Paper Title	Journal with Publications details
4.	Mohit Aggarwal S AnbuKumar T Vijaya Kumar	Analysis and pollution assessment of heavy metals in suspended solids of the middle stretch of river Ganga between Kanpur to PrayagRaj, UP, India	*Sādhanā* vol.48, pp.257 2023. **Impact Factor 1.4**
5.	**Munendra Kumar** Deepak Singh &	Study of the Energy Dissipation over the Type-A Piano Key Weir.	*Journal of Civil Engineering*, *27*(4), 1568-1584,2023. **Impact Factor 1.8**
6.	**Nerusupalli Dinesh Kumar Reddy,** Ashok Kumar Gupta Anil Kumar Sahu	Optimized ensemble-classification for prediction of soil liquefaction with improved features	*Multimedia Tools and Applications*, vol.*82,issue*20, pp.31467-31486,2023. **Impact Factor 3.0**
7.	**Raju Sarkar** Sunil Saha Badal Mohanty	Preparing coastal erosion vulnerability index applying deep learning techniques in Odisha state of India	*International Journal of disaster risk Reduction* *Vol. 96*, pp.103986,2023.
8.	**Raju Sarkar** Ankit Kumar	Debris Flow Susceptibility Evaluation—A Review	*Iran J Sci Technol Trans Civ Eng*. vol.47, pp.1277–1292,2023.
9.	**Ritu Raj** Deepak Sharma, Shilpa Pal	Effect of spacing on wind-induced interference on the roof of low-rise buildings with cylindrical roof using CFD Simulation	*Sādhanā*, vol.*48,issue*4,pp. 283,2023. **Impact Factor 1.4**
10.	**Sandeep Panchal** Amit Kr Shrivastava	Debris failure susceptibility mapping using information value method	*Sādhanā*, vol.*48,issue*3, pp.119,2023**.** **Impact Factor 1.4**
11.	Shilpa Pal	Structural challenges for seismic stability of buildings in hilly areas	*Environ Sci Pollut Res* ***30****,* 99100–99126, 2023. **Impact Factor 5.8**
12.	**Vijay Kaushik,** Munendra Kumar	Sustainable gene expression programming model for shear stress prediction in nonprismatic compound channels	*Sustainable Energy Technologies and Assessments*, vol.*57*, pp.103229,2023.
DEPARTMENT Of COMPUTER SCIENCE & ENGINEERING			
1.	Aakansha Gupta Rahul Katarya	Possibility of the COVID-19 third wave in India: mapping from second wave to third wave	*Indian Journal of Physics,* Vol. 97(2), Page no. 389–399,2023. **Impact Factor 2**
2.	**Aastha Maheshwari** Prem Nath, Rajesh Kumar Yadav	Congestion Aware Data Transmission in Mobile and Constrained IoT Network	*Wireless Personal Communications,* Vol. 130(3), Page no. 2121-2136, 2023. **Impact Factor: 2.2**

S. No.	Authors	Paper Title	Journal with Publications details
3.	**Aditi Sharma** Akshi Kumar	Real-time emotional health detection using fine-tuned transfer networks with multimodal fusion	*Neural Computing and Applications*, Vol. 35(10), Page no. 22935-22948, 2023. **Impact Factor 6**
4.	**Amrita Sisodia** Rajni Jindal	An effective model for healthcare to process chronic kidney disease using big data processing	*Journal of Ambient Intelligence and Humanized Computing,* Vol. 14(10), pp. 1 -17, 2023. **Impact Factor 6.16**
5.	**Anil Singh Parihar** Abhinav Java	Densely connected convolutional transformer for single image dehazing	*Journal of Visual Communication and Image Representation*, Vol. 90(1), Page no. 103722, 2023. **Impact Factor 2.6**
6.	**Anil Singh Parihar** Kavinder Singh	DSE-Net: Deep simultaneous estimation network for low-light image enhancement	*Journal of Visual Communication and Image Representation,* Vol. 91(1), Page no. 103780, 2023. **Impact Factor 2.6**
7.	**Ankur** Ajay K Sharma, Rajeev Kumar	High capacity reversible data hiding with contiguous space in encrypted images	*Computers and Electrical Engineering,* Vol. 112(3), Page no. 109017,2023. **Impact Factor 4.3**
8.	**Aruna Bhat** Shalini Agarwal	A survey on recent developments in diabetic retinopathy detection through integration of deep learning	*Multimedia Tools and Applications,* Vol. 82(11), Page no. 17321–17351, 2023. **Impact Factor 3.6**
9.	**Deepak Kumar Mishra,** Badal Gami, Manav Agrawal, Danish Quasim, Pawan Singh Mehra	Artificial intelligence-based blockchain solutions for intelligent healthcare: A comprehensive review on privacy preserving techniques	*Transactions on Emerging Telecommunication Technologies,* Vol. 34(9), e4824, 2023. **Impact Factor 3.6**
10.	Diksha Chawla Pawan Singh Mehra	A roadmap from classical cryptography to post-quantum resistant cryptography for 5G-enabled IoT: Challenges, opportunities and solutions	*Internet of Things,* Vol. 24, Page no. 100950, 2023. **Impact Factor 5.9**
11.	**Indu Singh** Rajni Jindal	Trust factor-based analysis of user behavior using sequential pattern mining for detecting intrusive transactions in databases	*The Journal of Supercomputing,* Vol. 79(10), Page no. 11101-11133, 2023. **Impact Factor 3.3**
12.	**Indu Singh,** KG. Srinivasa, Aditya Aggarwal, Harsh Gunwant, Mridul Maurya, Himanshu Sheokand, Mohit Dhalwal	Hybrid ABC and black hole algorithm with genetic operators optimized SVM ensemble based diagnosis of breast cancer	*Pattern Analysis and Applications,* Vol. 26(10), Page no. 1771-1791, 2023. **Impact Factor 3.9**

S. No.	Authors	Paper Title	Journal with Publications details
13.	**Irfan Alam** Manoj Kumar	A novel authentication protocol to ensure confidentiality among the Internet of Medical Things in covid-19 and future pandemic scenario	*Internet of Things* Vol. 22(1), Page no. 100797, 2023. **Impact Factor 5.9**
14	Jatin Sharma Pawan Singh Mehra	Secure Communication in IOT-based UAV Networks: A Systematic Survey	*Internet of Things,* Vol. 23, Page no. 100883, 2023. **Impact Factor 5.9**
15.	**Kirti Jain** Rajni Jindal	Sampling and noise filtering methods for recommender systems: A literature review	*Engineering Applications of Artificial Intelligence,* Vol. 122, Page no. 106129, 2023. **Impact Factor 8**
16.	**Manisha Saini** Seba Susan	Tackling class imbalance in computer vision: a contemporary review	*Artificial Intelligence Review,* Vol. 56, Page no. 1279-1335, 2023. **Impact Factor: 12**
17.	Nishant Singh Aruna Bhat	A systematic review of the methodologies for the processing and enhancement of the underwater images	*Multimedia Tools and Applications,* Vol no. 82(25), pp. 38371–38396, 2023. **Impact Factor 3.6**
18.	**Pawan Singh Mehra,** Diksha Chawla	QSMAH: A novel quantum-based secure cryptosystem using mutual authentication for healthcare in the internet of things	*Internet of Things,* vol. 24, pp. 100949, 2023. **Impact Factor 5.9**
19.	**Pooja Mithoo** Manoj Kumar	Social network analysis for crime rate detection using Spizella swarm optimization based BiLSTM classifier	*Knowledge-based-systems,* Vol. 269, Page no. 110450, 2023. **Impact Factor 8.8**
20.	Rahul Katarya	Towards the significance of taxi recommender systems in smart cities.	*Concurrency and Computation: Practice and Experience*, Vol no. 35(2), e7475, 22 Jan 2023 **Impact Factor 2**
21.	**Rahul Katarya** Aakansha Gupta	A deep-SIQRV epidemic model for COVID-19 to access the impact of prevention and control measures	*Computational Biology and Chemistry,* Vol no. 107, 107941, 10 Jan 2023 **Impact Factor 3.1**
22.	**Rahul Katarya,** Garima Gupta	A novel approach to alleviate data sparsity and generate dynamic fruit recommendations from point-of-sale data	*Concurrency and Computation: Practice and Experience,* Vol no. 35(1), e7423, 11 Jan 2023 **Impact Factor 2**
23.	**Rahul Katarya** Tashvik, Dhamija, Anunay Gupta, Shreyansh Gupta, Anjum, Ghanshyam Singh	Semantic segmentation in medical images through transfused convolution and transformer networks	*Applied Intelligence*, Vol.53, page.no. 1132–1148, (2023) **Impact Factor 3.4**

S. No.	Authors	Paper Title	Journal with Publications details
24.	**Rajeev Kumar** NeeRaj Kumar, Aruna Malik, Samayveer Singh & Ki-Hyun Jung	Reversible data hiding with high visual quality using pairwise PVO and PEE	*Multimed Tools and Applications,* Vol. 82(8), Page no. 30733–30758, 2023. **Impact Factor 3.6**
25.	**Rajeev Kumar** Aruna Malik	Multimedia information hiding method for AMBTC compressed images using LSB substitution technique	*Multimedia Tools and Applications,* Vol. 82(4), Page no. 8623-8642, 2023. **Impact Factor 3.6**
26.	**Rajeev Kumar** Deepak Sharma, Amit Dua, Ki-Hyun Jung	A review of different prediction methods for reversible data hiding	*Journal of Information Security and Applications,* Vol. 78(8), Page no. 103572,2023. **Impact Factor 5.6**
27.	**Rajeev Kumar** Deepak Sharma, Ki-Hyun Jung	A Bibliometric Analysis of Convergence of Artificial Intelligence and Blockchain for Edge of Things	*Journal of Grid Computing,* Vol. 21(4), Page no. 79, 2023. **Impact Factor 4.674**
28.	**Rajiv Kumar Mishra** Prem Nath, Rajesh Kumar Yadav	Blockchain DrivenAccess control architecture for the internet of things	*Multimedia Tools and Applications,* Vol. 82(20), Page no. 31397–31421, 2023. **Impact Factor 3.6**
29.	**Rajiv Kumar Mishra** Prem Nath, Rajesh Kumar Yadav	Secure IoT data management and sharing architecture for information security using cryptographic technique	*Journal of Intelligent & Fuzzy Systems,* Vol. 45(24), Page no. 10951-10966, 2023. **Impact Factor 2**
30.	Rashmi Mishra Rajesh Kumar Yadav	Energy Efficient Cluster-Based Routing Protocol for WSN Using Nature Inspired Algorithm	*Wireless Personal Communication,* Vol. 130(4), Page no. 2407–2440, 2023. **Impact Factor 2.2**
31.	**Ruchi Goel** Prashant Giridhar Shambharkar	Auto encoder with mode-based learning for keyframe extraction in video summarization	*Expert Systems, Wiley,* Vol. 40(10), Page no. e13437, 2023. **Impact Factor: 3.3**
32.	**Shanu Bhardwaj** Ashish Girdhar	Network Traffic Analysis in Software-Defined Networking Using RYU Controller	*Wireless Personal Communications,* Vol. 132(1), Page no. 1797–1818, 2023. **Impact Factor 2.2**
33.	**Sanjay Kumar**, Abhishek Mallik	COVID-19 Detection from Chest X-rays Using Trained Output Based Transfer Learning Approach	*Neural Processing Letters*, Vol. 55, Page No. 2405–2428, 2023 **Impact Factor 2.6**
34.	**Sanjay Kumar,** Aaryan Gupta, Inder Khatri, Arjun Choudhry	MCD: A modified community diversity approach for detecting influential nodes in social networks	*Journal of Intelligent Information Systems*, Vol. 61, Page No. 473–495, 2023 **Impact Factor 2.3**

S. No.	Authors	Paper Title	Journal with Publications details
35.	**Sanjay Kumar,** Nikhil Kumar, Aditya Dev, Siraz Naorem	Movie genre classification using binary relevance, label powerset, and machine learning classifiers	*Multimedia Tools and Applications*, Vo. 82, Page No. 945–968, 2023 **Impact Factor 3**
36.	**Sanjay Kumar,** Sandeep Singh Sengar, Abhishek Mallik	Community detection in complex networks using stacked autoencoders and crow search algorithm	*Journal of Supercomputing,* Vol. 79(7), Page no. 3329–3356, 2023. **Impact Factor 3.3**
37.	**Sanjay Kumar,** Akshi Kumar, Nipun Aggarwal	SIRA: a model for propagation and rumor control with epidemic spreading and immunization for healthcare 5.0	*Soft Computing,* Vol. 27(7), Page no. 4307–4320, 2023. **Impact Factor 4.1**
38.	**Sanjay Kumar,** B S Panda, Abhishek Mallik	Influence maximization in social networks using transfer learning via graph-based LSTM	*Expert Systems with Applications,* Vol. 212(9), Page no. 118770, 2023. **Impact Factor 8.5**
39.	**Shailender Kumar** Rahul Kumar	Multi-view Multi-modal Approach Based on 5S-CNN and BiLSTM Using Skeleton, Depth and RGB Data for Human Activity Recognition	*Wireless Personal Communication,* vol. 130(3), Page no. 1141-59, 2023. **Impact Factor 2.2**
40.	**Tejna Khosla** Om Prakash Verma	An adaptive rejuvenation of bacterial foraging algorithm for global optimization	*Multimedia Tools and Applications,* Vol. 82(6), Page no. 1965–1993, 2023. **Impact Factor 3.6**
DELHI SCHOOL Of MANAGEMENT			
1.	**Mohit Beniwal** Archana Singh Nand Kumar	Forecasting long-term stock prices of global indices: A forward-validating Genetic Algorithm optimization approach for Support Vector Regression	*Applied Soft Computing*, Vol. 145, PP. 110566,2023. **Impact Factor:8.7**
2.	**Saurabh Agarwal** Raj Kumar Singh Dharmendra Kumar	Analyzing coordination strategy of circular supply chain in re-commerce industry: A game theoretic approach	*Business Strategy and Environment* Vol. 32(4), PP. 1680-1697, 2023. **Impact Factor 13.4.**
3.	**Vaishali Kaushal** Rajan Yadav	Learning successful implementation of Chatbots in businesses from B2B customer experience perspective	*Concurrency and Computation: Practice and Experience* Vol.35(1), PP. e7450, 2023. **Impact Factor: 2**
DEPARTMENT Of ELECTRICAL ENGINEERING			
1	**Abhishek Chaudhary** Bharat Bhushan	An improved teaching learning based optimization method to enrich the flight control of a helicopter system	*Sadhana,* Vol no. 48, pp. 222, 2023, **Impact Factor 1.6**

S. No.	Authors	Paper Title	Journal with Publications details
2	**Ajishek Raj** Data Ram Bhaskar Meghana Shrivastava Pragati Kumar	New negative-grounded capacitance multiplier circuits	*International Journal of Circuit Theory and Applications* Vol no. 51 Page no. 1476–1491, 2023. **Impact Factor 2.3**
3	**Ajit nandawekar** Soumen Kar, Mukhtiar Singh	A versatile 4 K insert for characterization of the superconducting joints	*Review of scientific instruments* Vol no. 94 Page no. 2023 **Impact Factor 1.6**
4	**Amarendra Pandey** Alka Singh	SWRDFT Controller for Single Phase Grid Tied PV system with Low Voltage Ride through Capability	*Electric Power Systems Research,* Vol no. 214, Part A 1 Jan 2023 **Impact Factor 3.9**
5	**Amarendra Pandey** Alka Singh	Performance of adaptive radial basis functional neural network for inverter control	*Electrical Engineering* Vol no. 105 pages 921–933 2023 **Impact Factor 1.8**
6	**Amarendra Pandey** Alka Singh	Laguerre polynomial function-based inverter control with low-voltage ride-through capabilities	*International journal of Circuit theory and applications* Vol no. 51 Pages 764-786 Feb 2023 **Impact Factor 2.378**
7	**Anwesh Devratna Behera,** Vinod Kumar Yadav, Ranjeet Singh, Anubhav Maheshwari, Santosh Ghosh, Abhijeet Prakash	A novel PV array reconfiguration technique based on circular array data structure	*Energy*, Vol. 283, Page No. 128505, 2023 **Impact Factor 9**
8	**Astitva Kumar** M. AlaRaj I. Alsaidan M. Jamil A. Kumar M. Rizwan	Development of Novel Model for the Assessment of Dust Accumulation on Solar PV Modules	*IEEE Journal of Photovoltaics* Vol no. 13 Page no. 150-157 2023 **Impact Factor 3**
9	**Bandana** Priyanka M Rizwan	A new intelligent approach for size optimization of a renewable energy based grid connected hybrid energy system	*International Journal of Numerical Modelling: Electronic Networks, Devices and Fields* Vol no. 36 Page no. e3050 March 2023 **Impact Factor 1.6**
10	**Bandana** Priyanka M Rizwan	Optimal design of Renewable Energy based Hybrid system Considering Weather Forecasting using Machine Learning Techniques	*International Journal of Numerical Modelling: Electronic Networks, Devices and Fields* Vol no. 105 Page no. 4229–4249 December 2023 **Impact Factor 1.8**
11	**Chetan Gusain,** Madan Mohan Tripathi, Uma Nangia	Study of Meta-heuristic Optimization Methodologies for Design of Hybrid Renewable Energy Systems	*Thermal Science and Engineering Progress* Vol no.39 Page no. 101711 2023 **Impact Factor 4.8**

S. No.	Authors	Paper Title	Journal with Publications details
12	**Data Ram Bhaskar,** Raj Senani, Ajishek Raj	Third-order quadrature sinusoidal oscillators with fully uncoupled tuning laws using only two CFOAs and grounded capacitors	*International Journal of Circuit Theory and Applications* Vol no.51 Page no. 2981–2992 2023 **Impact Factor 2.3**
13	**Ish Mishra** Ranjana Yadav Vinod Kumar Yadav Ranjeet Singh Isha Ganvir Manish	Reconfiguration of PV array through recursive addition approach for optimal power extraction under PSC	*Energy Conversion and Management* Vol no. 292 2023 **Impact Factor 10.4**
14	**Kanchan Bala Rai**, Narendra Kumar II Alka Singh	Design and analysis of Hermite function-based artificial neural network controller for performance enhancement of photovoltaic-integrated grid system	*International Journal of Circuit Theory and Applications* Vol No. 51 Page no. 1440-1459 2023 **Impact Factor 2.37**
15	**Kanchan Bala Rai** Narendra Kumar II Alka Singh	Bernoulli polynomial-based control technique for PV-integrated grid system under distorted supply	*International Journal of Circuit Theory and Applications* Vol No. 51 Page no. 3204-3225 2023 **Impact Factor 2.37**
16	**Kashika Baranwal** Prem Prakash Vinod Kumar Yadav	A Modified Bypass Circuit for Improved Reliability of PV Module Validated With Real-Time Data	*IEEE Transactions on Device and Materials Reliability* Vol no. 23 Page no. 187-197 2023 **Impact Factor 2**
17	**M. M. Tripathi** Ajay Kumar	Small-Signal Modeling of GaN-BTG MOSFET for Wireless Applications	*Wireless Personal Communications* Vol no. 132 Page no. 2243-2253 2023 **Impact Factor 2.2**
18	**Mukhtiar Singh** Akash Kumar Seth	Plant integrated proportional integrating based control design for electric vehicle charger	*Computers & Electrical Engineering* Vol no. 105 Page no. 16 2023 **Impact Factor 4.3**
19	**Neha Khanduja** Bharat Bhushan	Chaotic state of matter search with elite opposition based learning: A new hybrid metaheuristic algorithm	*Optimal Control: Applications & Methods(WILEY)Y)* Vol No.44 Page no. 533-548 2023 **Impact Factor 2.53**
20	**Poras Khetarpal** Mohan Tripathi	Power quality disturbance classification taking into consideration the loss of data during pre-processing of disturbance signal	*electric power systems research* Vol no. 220 Page no. 109372 **Impact Factor 3.9**
21	**Ram Bhagat** Data Ram Bhaskar Pragati Kumar Ajishek Raj	Single CDBA-based grounded parallel lossy inductor simulator circuits	*AEU - International Journal of Electronics and Communications* Vol no. 168 2023 **Impact Factor 3.2**

S. No.	Authors	Paper Title	Journal with Publications details
22	**Ravi Choudhary** Yogendra Arya J. N. RAI	FOPTID+1 controller with capacitive energy storage for AGC performance enrichment of multi-source electric power systems	*Electric Power Systems Research* Vol no. 221 Page no. 109450 2023 **Impact Factor 3.9**
23	**Shubham Gupta** Vinod Kumar Yadav Madhusudan Singh	Measuring Influence of Indices in DN Planning	*IEEE Systems Journal* Vol no. 17(3) Page no. 4149 – 4152,2023 **Impact Factor 4.4**
24	**Sombir Kundu** Ashutosh K. Giri Madhusudan Singh	Implementation of variable gain controller based improved phase locked loop approach to enhance power quality in autonomous microgrid	*International Journal of Numerical Modelling: Electronic Networks, Devices and Fields* Vol No.36 Page no. e3082 2023 **Impact Factor 1.6**
25	**Suryakant** Mini Sreejeth Madhusudan Singh Aakash Kumar Seth	Minimization of torque ripples in PMSM drive using PI- resonant controller based model predictive control	*Electrical Engineering 105, p 207-219, 2023*, **Impact Factor 1.8**
26	**Vivek Saxena,** Narendra Kumar II, Uma Nangia	An Extensive Data-Based Assessment of Optimization Techniques for Distributed Generation Allocation: Conventional to Modern	*Archives of Computational Methods in Engineering State of the Art Reviews,* vol. *30,* pp. 675-701, 2023. **Impact Factor 9.7**
DEPARTMENT Of ELECTRONICS AND COMMUNICATIONS			
1.	**Akanksha Srivastava,** Gurjit Kaur	CEAR: A cooperation based energy aware reward scheme for next generation green cognitive radio	*Physical Communication* vol. 56, pp. 101947, 2023. **Impact Factor 2.2**
2.	**Amarendra Kumar Mishra** Mahipal Singh Choudhry Manjeet Kumar	Underwater image enhancement using multiscale decomposition and gamma correction	*Multimedia Tools and Applications,* vol. 82, pp. 15715-15733, 2023. **Impact Factor 3.6**
3.	Anukul Pandey	ECG data compression using the formation of QRS-complex segment bank and integer DCT-based plateau region processing	*Biomedical Signal Processing and Control,* vol. 85, pp. 14, 2023. **Impact Factor 5.1**
4.	**Anurag Chauhan,** Sudhanshu Choudhary Kapil Sharma	Transition metal induced-magnetization in zigzag SiCNTs	*Journal of Computational Electronics,* vol. 22, pp. 964–970, 2023. **Impact Factor 2.1**
5.	**Asbah Mashi** Gurjit Kaur	Machine learning-based regression models for predicting signal quality of dense wavelength division multiplexing (DWDM) optical communication network	*International Journal of Communication Systems,* vol. 36, pp. 5518, 2023. **Impact Factor 2.1**

S. No.	Authors	Paper Title	Journal with Publications details
6.	**Ashish Raturi** Sudhanshu Choudhary Poornima Mittal	Density Functional Characterization of Electronic and Optical Properties of Strontium Titanate Under Doping and Strain for Optoelectronic Applications	*Applications' IEEE Transactions on Nanotechnology* Vol. No. 22 Page no. 481-489 2023 **Impact Factor 2.4**
7.	**Ashish Raturi** Sudhanshu Choudhary Poornima Mittal	Strain engineering for tuning the electronic and optical properties of lithium niobate for optoelectronic applications	*Solid State Communications, Elsevier* Vol. No. 361 Page no. 115074 2023 **Impact Factor 2.1**
8.	**Ashish Raturi** Sudhanshu Choudhary Poornima Mittal	Strain tunability of the properties of Fe- doped lithium niobate for optoelectronic applications: Theoretical insights	*Main Group Chemistry, IOS Press* 2023 **Impact Factor 1.5**
9.	**Ayush** Rajesh Rohilla Poornima Mittal	Variation-Tolerant Sense Amplifier Using Decoupling Transistors for Enhanced SRAM Read Performance	*Circuits, Systems, and Signal Processing* Vol. No. 42 Page no. 5799-5810 2023 **Impact Factor 2.3**
10	**Bhawna Rawat** Poornima Mittal	A latch-based sense amplifier with improved performance for single ended SRAM application	*Physica Scripta, IOP Publishing Ltd* Vol. No. 98 Page no. 065025-065036 2023 **Impact Factor 2.9**
11.	**Chhavi Dhiman** Aashania Antil	A two-stream face anti-spoofing framework using multi-level deep features and ELBP features	*Multimedia Systems,* vol. 29, pp. 1361-1376, 2023. **Impact Factor 3.9**
12.	**Chhavi Dhiman** Neha Sharma, S Indu	Visual-Motion-Interaction Guided Pedestrian Intention Prediction Framework	*IEEE sensors,* vol. 23, pp. 27540 - 27548, 2023. **Impact Factor 4.3**
13.	**Damyanti Singh,** Kirti Gupta, Neeta Pandey	A novel read decoupled 8T1M nvSRAM cell with improved read/ write margin	*Analog Integrated Circuits and Signal Processing (AICSP),* vol. 114, pp. 89-101, 2023. **Impact Factor 1.4**
14.	**Damyanti Singh,** Kirti Gupta, Neeta Pandey	Process invariant Schmitt Trigger non-volatile 13T1M SRAM cell	*Microelectronics Journal,* vol. 135, pp. 105773, 2023. **Impact Factor 2.2**
15.	Dhruv Sharma Chhavi Dhiman, Dinesh Kumar	Evolution of visual data captioning Methods, Datasets, and Evaluation Metrics: A Comprehensive Survey	*Expert Systems with Applications,* vol. 221C, Page no. 119773 2023. **Impact Factor 8.5**
16.	**Ishu Tomar** Indu Sreedevi, Neeta Pandey	PLC and SCADA based Real Time Monitoring and Train Control System for the Metro Railways Infrastructure	*Wireless Personal Communications,* vol.129, pp. 521–548, 2023. **Impact Factor 2.2**

S. No.	Authors	Paper Title	Journal with Publications details
17.	**Jyoti** N S Raghava Rajeshwari Pandey	Harmonic analysis of CMOS low noise amplifier with employing PMOS IMD technique for biosensor applications	*Microsystem Technologies* Vol. No. 29 Page no. 875-898 2023 **Impact Factor 2.1**
18	Kamakshi Rautela Vijay Kumar, Dinesh Kumar	Active Contour And Texture Features Hybrid Model for Breast Cancer Detection From Ultrasonic Images	*International Journal of Imaging Systems and Technology,* vol. 33, pp. 2061-2072, 2023. **Impact Factor 3.3**
19.	**Kavita Bhatt,** N. Jayanthi, Manjeet Kumar	High-resolution superlet transform based techniques for Parkinson's disease detection using speech signal	*Applied Acoustics*, vol. 214, pp. 109657, 2023. **Impact Factor 3.4**
20.	**Lokesh Soni,** Neeta Pandey	A novel CNTFET based Schmitt-Trigger read decoupled 12T SRAM cell with high speed, low power, and high ratio	*AEU - International Journal of Electronics and Communications,* Vol. 167, pp. 154669, 2023. **Impact Factor 3.2**
21.	**Manjeet Kumar** Prashant Mani Tripathi Ashish Kumar Rama Komaragiri	Automatic Seizure Detection and Classification Using Super-resolution Superlet Transform and Deep Neural Network	*Computer Methods and Programs in Biomedicine Elsevier,* Vol. No.240 Article No. 107680 2023. **Impact Factor 6.1**
22.	**Manjeet Kumar** Pankaj Ashish Kumar Rama Komaragiri	Optimized Deep Neural Network Models for Blood Pressure Classification Using Fourier Analysis-Based Time-Frequency Spectrogram of Photoplethysmography Signal	*Biomedical Engineering Letters (Springer)* Vol. No.13 pages 739–750 2023. **Impact Factor 4.6**
23.	**Manjeet Kumar** Pankaj Ashish Kumar Rama Komaragiri	A Novel CS-NET Architecture Based on the Unification of CNN, SVM and Super-Resolution Spectrogram to Monitor and Classify Blood Pressure Using Photoplethysmography	*Computer Methods and Programs in Biomedicine (Elsevier)* Vol. No.240 Article no. 107716 2023. **Impact Factor 6.1**
24.	**Manjeet Kumar** Pankaj Ashish Kumar Rama Komaragiri	Blood Pressure Estimation and Classification Using A Reference Signal-less Photoplethysmography Signal - A Deep Learning Framework	*Physical and Engineering Sciences in Medicine (Springer)* Vol. No.46 pages 1589–1605 2023. **Impact Factor 4.4**
25.	**Manjeet Kumar** Pankaj Ashish Kumar Rama Komaragiri	Analysis of Photoplethysmogram Signal During Physical Activity Using Fractional Fourier Transform-A Sampling Frequency Independent and Reference Signal-less Method	*Computer Methods and Programs in Biomedicine (Elsevier)* Vol. No. 229 Article No.-107294 2023. **Impact Factor 6.1**

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26.	**Mohit Tyagi** Poornima Mittal	Design of 8 -bit low power SAR ADC in 45nm for biomedical implants	*Physica Scripta* Vol. No.98 Page no. 116101 2023 **Impact Factor 2.9**
27.	**Navnit Kumar,** Manjeet Kumar, Neeta Pandey	Electronically tunable positive and negative fractional order inductor circuit using single topology	*INTEGRATION, the VLSI journal,* vol. 88, pp. 379–389, 2023. **Impact Factor 1.9**
28.	**Navnit Kumar,** Manish Kumar Manjeet Kumar	CCTA based four different pairs of mutually coupled circuit using single topology	*INTEGRATION, the VLSI journal,* vol. 91, pp. 43-53, 2023. **Impact Factor 1.9**
29.	**Neeta Pandey** Kirti Gupta Damyanti Singh	Schmitt Trigger 12T1M Non-volatile SRAM cell with improved process variation tolerance	*AEU-International Journal of Electronics and Communications,* Vol.162, pp. 154573, 2023. **Impact Factor 3.2**
30.	**Neeta Pandey** Manish Kumar Navnit Kumar Manjeet Kumar	Two MOS transistor based floating memristor circuit and its application as oscillator	*AEU - International Journal of Electronics and Communications,* Vol. 171, pp. 154916, 2023. **Impact Factor 3.2**
31.	**Neetika Yadav,** Neeta Pandey, Deva nand	LDML: a proposal to reduce leakage power in DML circuits	*Wireless Personal Communications,* vol. 129, pp. 1009–1024, 2023. **Impact Factor 2.2**
32.	**Neetu Sharma** Rajesh Rohilla	A novel Hyperledger blockchain-enabled decentralized application for drug discovery chain management	*Computers & Industrial Engineering* Vol. No.183 Page no. 109501 2023 **Impact Factor 7.9**
33	**Neha Garg,** Mahipal Singh Choudhry, Rajesh M Bodade	A review on Alzheimer's disease classification from normal controls and mild cognitive impairment using structural MR images	*Journal of Neuroscience Methods,* Vol.384, 109745, 2023 **Impact Factor 2.7**
34.	**Nikhil Singh** Rajiv Kapoor	Multi-modal Expression Detection (MED): A cutting-edge review of current trends, challenges and solutions	*Engineering Applications of Artificial Intelligence (Elsevier)* Vol. No. 125 Page no. 106661 2023 **Impact Factor 8**
35.	**Palak Handa,** Nidhi Goel, Deepak Gunjan, S. Indu	Automatic Detection of Colorectal Polyps with Mixed Convolutions and its Occlusion Testing	*Neural Computing and Applications,* vol. 35, pp. 19409–19426, 2023. **Impact Factor 6**
36.	**Palak Handa** Harshita Mangotra, Nidhi Goel	Effect of selection bias on Automatic Colonoscopy Polyp Detection	*Biomedical Signal Processing and Control*, vol. 85, pp. 104915, 2023. **Impact Factor 5.1**
37.	**Palak Handa** Deepti Chhabra, Nidhi Goel, Sri Krishnan	Exploring the role of ChatGPT in medical image analysis	*Biomedical Signal Processing and Control,* vol. 86, pp. 105292, 2023. **Impact Factor 5.1**

S. No.	Authors	Paper Title	Journal with Publications details
38.	**Paritosh Chamola** Poornima Mittal	PPV–PCBM bulk heterojunction organic solar cell to power modern pacemakers	*Journal of Material Research* Vol. No. 38 Page no. 1304- 1316 2023. **Impact Factor 2.7**
39.	**Paritosh Chamola** Poornima Mittal	Flexible organic solar cell to power modern cardiac pacemakers: Versatile for all age groups, skin types and genders	*Physica Scripta* Vol. No.98 Page no. 35018 2023. **Impact Factor 2.9**
40.	**Paritosh Chamola** Poornima Mittal	Parametric extraction and internal analysis of fullerene-based polymer bulk heterojunction solar cell	*Main Group Chemistry* Vol. No.22 Page no. 155- 166 2023 **Impact Factor 1.5**
41.	**Poornima Mittal** Bawana Rawat	A low power single bit line configuration dependent 7T SRAM bit cell with process variation tolerant enhanced read performance	*Analog Integrated Circuits and Signal Processing, Springer* Vol. No. 115 Page no. 77-92 2023. **Impact Factor 1.4**
42.	**Poornima Mittal** Paritosh Chamola	'A non-invasive optical method for anaemia detection	*Physica Scripta* Vol. No.98 Page no. 65023 2023. **Impact Factor 2.9**
43.	**Poornima Mittal** Shubham Negi Poornima Mittal Sugandha Yadav	Characteristic performance and analysis of the positional variation of the charge generation layer to enhance the performance of OLEDs	*Journal of Computational Electronics, Springer* Vol. No. 38 Page no. 1304- 1316 2023. **Impact Factor 2.1**
44.	**Rajiv Kapoor** Aarchishya Kapoor Nikhil Singh	Multi-sensor based object tracking using enhanced particle swarm optimized multi-cue granular fusion	*Multimedia Tools & Application* Vol. No. 85 Page no. 42417–42438 2023 **Impact Factor 3.6**
45.	**Sachin Taran,** Ravi	A nonlinear feature extraction approach for speech emotion recognition using VMD and TKEO	*Applied Acoustics,* vol. 214, pp. 109667, 2023. **Impact Factor 3.4**
46.	**Sachin Taran** Dhruv Sharma, Anukul Pandey	A fusion way of feature extraction for automatic categorization of music genres	*Multimedia Tools and Applications,* vol.82, pp. 25015–25038, 2023. **Impact Factor 3.1**
47.	Sachin Taran Jaideep Kala, Anukul Pandey	A Dual-Staged heterogeneous stacked ensemble model for gender recognition using speech signal	*Applied Acoustics,* vol. 205, pp. 109271, 2023. **Impact Factor 3.4**

S. No.	Authors	Paper Title	Journal with Publications details
48.	**S Indu,** Ajay Kaushik, Lakshmi Sai Srikar Vadlamani, Mohammed Mohsin Hussain, Milind Sahay, Rahul Singh, Ananya Komal Singh, Puneet Goswami, Nalliyanna Goundar Veerappan Kousik	Post Quantum Public and Private Key Cryptography Optimized for IoT Security	*Wireless Personal Communications,* vol. 129, pp. 893-909, 2023. **Impact Factor 2.2**
49.	**Shikha,** Neeta Pandey	Memristor based architectures for PFSCL circuit realizations	*CSSP* Vol. No. 42 Page no. 4985–5012 2023. **Impact Factor 2.311**
50.	**Shikha Singhal,** Manjeet Kumar	A Systematic Review on Artificial Intelligence-Based Techniques for Diagnosis of Cardiovascular Arrhythmia Diseases: Challenges and Opportunities	*Archives of Computational Methods in Engineering,* vol. 30, pp. 865-888, 2023. **Impact Factor 9.7**
51.	Shivani Yadav Sonam Rewari	Analytical modeling and numerical simulation of graded JAM Split Gate-All-Around (GJAM-SGAA) Bio-FET for label free Avian Influenza antibody and DNA detection	*Microelectronics Journal,* vol. 142, pp.106011, 2023. **Impact Factor 2.2**
52.	Shivani Yadav Sonam Rewari	Numerical Simulation of Hetero Dielectric Trench Gate JAM GateAll-Around FET (HDTG-JAM-GAAFET) for Label Free Biosensing Applications	*ECS Journal of Solid State Science and Technology,* Vol.12, pp. 127008, 2023. **Impact Factor 2.2**
53.	**Sourabh Rana** Priyanka Jain	Design of low-profile high-gain wideband circularly polarized low RCS single-layer metasurface antenna using characteristics mode analysis	Vol. No. 15(9) 12 Jan 2023 **Impact Factor 1.4**
54.	**Sugandha Yadav** Shubham Negi Poornima Mittal	Advancements and Perspectives of Organic LED: In Depth Analysis of Architectural Design, Characteristics Parameters, Fabrication Techniques, and Applications	*ECS Journal of Solid State Science and Technology* Vol. No. 12 Page no.4 2023 **Impact Factor 2.2**
55.	**Sugandha Yadav** Shubham Negi Poornima Mittal	An In-Depth Analysis of Variation in Characteristic Performance of OLED with Respect to Position of Charge Generation Layer	*ECS Journal of Solid State Science and Technology* Vol. No. 12 Page no. 106001 2023 **Impact Factor 2.2**

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56.	**Sumedha Gupta** R S Gupta, Sumedha Gupta, Neeta Pandey	Analytical model for junctionless accumulation-mode cylindrical surrounding gate (JAM-CSG) MOSFET as a biosensor	*International Journal of Numerical Modelling*, vol. 36, pp. 3095, 2023. **Impact Factor 1.436**
57.	**Sumedha Gupta** Neeta Pandey	Modeling of Dual- Metal Junctionless Accumulation-Mode cylindrical surrounding gate (DM-JAM-CSG) MOSFET for cryogenic temperature applications	*Microelectronics Journal*, vol.139, pp. 105880, 2023. **Impact Factor 1.992**
58.	**Sonal Singh** Vishal Chaudhary	Twin core photonic crystal fiber based temperature sensor with improved sensitivity over a wide range of temperature	*Optical and Quantum Electronics*. 2023. **Impact Factor 3**
59.	**Sonal Singh** Vishal Chaudhary	Highly sensitive twin core photonic crystal fiber for hazardous cancer cell detection in THz frequency regime	*Optical and Quantum Electronics,* vol. 55, 17 Jan 2023. **Impact Factor 3**
60.	**Tanvika Garg,** Sumit Kale	A novel p-GaN HEMT with AlInN/ AlN/GaN double heterostructure and InAlGaN back-barrier	*Microelectronics Reliability,* vol. 145, 6 Jan 2023. **Impact Factor 1.6**
61.	**Tanvika Garg,** Sumit Kale	A novel stepped AlGaN hybrid buffer GaN HEMT for power electronics applications	*Microelectronics Reliability,* vol. 149, 6 Jan 2023. **Impact Factor 1.6**
62.	**Vansh Singhal** Brijesh Kumar Bhawna Rawat Poornima Mittal	A single ended, single port configuration based 9T SRAM cell for stability enhancement	*Physica Scripta* Vol. No. 98 Page no. 115035 2023 **Impact Factor 2.9**
63.	**Yashna Sharma** Kirti Dalal	Broadband plasmonic switches based on nanodisc-dimers with progressively increasing diameters on a plasmonic film with a VO2 spacer	*Optics Communications,* Vol. No. 530 Page no. 129121 2023. **Impact Factor 2.4**
DEPARTMENT Of ENVIRONMENTAL ENGINEERING			
1	**Ali Reza Noori,** S.K.Singh	Rainfall Assessment and Water Harvesting Potential in an Urban Area for Artificial Groundwater Recharge with Land Use and Land Cover Approach	*Water Resources Management 37*, p5215–5234, 2023, **Impact Factor 4.2**
2	**Anil Kumar Haritash**, Naveen Radhakrishnan, Sonam Taneja, Saurav Ambastha, Harsh Pipil	Heavy metal profile, mobility, and source characterization in size-fractionated bed- sediments of River Ganga, India	*Marine Pollution Bulletin* 188, P114650, 2023, **Impact Factor 5.8**

S. No.	Authors	Paper Title	Journal with Publications details
3	**Deepali Goyal**; A.K. Haritash, S.K. Singh	Hydrogeochemical characterisation and geospatial analysis of groundwater for drinking water quality in Ludhiana district of Punjab, India	*Environmental monitoring and assessment* 195, article no. 653, 2023, **Impact Factor 3.1**
4	**Deepika** & Anil Kumar Haritash	Cadmium Uptake From Soil by Ornamental Metallophytes: A Meta-analytical Approach	*Environmental Management* 71, P1087–1097, 2023, **Impact Factor 3.5**
5	**Garima,** S.K. Singh,	Perspective: The unexplored dimensions behind the foam formation in River Yamuna, India	*Environmental Science and Pollution Research* 30, p90458–90470, 2023, **Impact Factor 5.8**
6	**KanagaRaj Rajgopal** S.Ramachandran, Rajeev Kumar Mishra,	Roadside measurements of nanoparticles and their dynamics in relation to traffic sources in Delhi: Impact of restrictions and pollution events	*Urban Climate* 51,p101625, 2023, **Impact Factor 6.4**
7	**Kulvendra Patel** S.K. Singh,	Environmental sustainability analysis of biofuels: a critical review of LCA studies	*Clean Technologies and Environmental Policy* 25, P2489–2510, 2023, **Impact Factor 4.3**
8	**Lovleen Gupta,** Swati Joshi, Gazala Habib, Ramya Sunder Raman,	Characteristics and atmospheric processes of water-soluble ions in PM2.5 and PM10 over an industrial city in the National Capital Region (NCR) of India	*Atmospheric Environment 312*, p120020, 2023, **Impact Factor 5.755**
9	**Lovleen Gupta,** Mahak Bansal, Priyabrata Nandi, Gazala Habib, Ramya Sunder Raman	Source apportionment and potential source regions of size-resolved particulate matter at a heavily polluted industrial city in the Indo-Gangetic Plain	*Atmospheric Environment 298*, p119614, 2023, **Impact Factor 5.755**
10	**Nibedita Verma**, Naved Ahsan, Geeta Singh	Assessment of Spatiotemporal Variations in Water Quality of the Urban River Reach, Yamuna, Delhi	*Water, Air, & Soil Pollution* 234, 20 Jan, 2023, **Impact Factor 2.9**
11	**Riki Sarma**, S. K. Singh	Assessment of groundwater quality and human health risks of nitrate and fluoride contamination in a rapidly urbanizing region of India	*Environmental Science and Pollution Research* 30, p55437–55454, 2023, **Impact Factor 5.8**
12	**Sakshi,** S.K. Singh, A.K. Haritash,	Bacterial degradation of mixed-PAHs and expression of PAH-catabolic genes	*World Journal of Microbiology and Biotechnology* 39 (47), 2023, **Impact Factor 4.1**
13	**Shivani Yadav,** Sunil Kumar, Anil Kumar Haritash	A comprehensive review of chlorophenols: Fate, toxicology and its treatment	*Journal of Environmental Management* 342, 118254, 2023, **Impact Factor 8.7**

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14	**Shivani Yadav,** Sunil Kumar, Anil Kumar Haritash	Solar light and ultrasound-assisted rapid Fenton's oxidation of 2,4,6-trichlorophenol: comparison, optimisation, and mineralisation	*Rendiconti Lincei. Scienze Fisiche e Naturali 34*, p1197–1207, 2023. **Impact Factor 2**
15	**Sonam Taneja,** Oznur Karaca, A.K. Haritash	Combined effects of high voltage gradient and electrolyte conditioning on electrokinetic remediation for chromium (VI)-contaminated soils	*Rendiconti Lincei. Scienze Fisiche e Naturali,* vol. *34*, pp. 635-646, 2023. **Impact Factor 2**
16	**Sonam Taneja,** Oznur Karaca, A.K. Haritash	Treatment of Pb-contaminated soil by electrokinetics: Enhancements by varying voltage, chelant, and electrode material	*Journal of Geochemical Exploration 250*, p107240, 2023, **Impact Factor 3.9**
17	**Swatilekha Ghosh** Santosh Kumar Singh, Vinod Yadav,	Experimental investigation of hotspot phenomenon in PV arrays under mismatch conditions	*Solar Energy* 253, p219-230, 2023, **Impact Factor 6.7**
18	**Tanya Arora**, Chirla Sarvani Reddy, Raghav Sharma, Sharat Divakar Kilaparthi, Lovleen Gupta	Greenhouse gas emissions of Delhi, India: A trend analysis of sources and sinks for 2017–2021	*Urban Climate 51, 101634, 2023*, **Impact Factor 6.4**
DEPARTMENT Of HUMANITIES			
1.	**Shweta Kumari** Shiv Lal Nand Kumar Rajan Yadav Akansha Singh	Role of nuclear energy in carbon mitigation to achieve United Nations net zero carbon emission: evidence from Fourier bootstrap Toda Yamamoto	*Environmental Science and Pollution Research*, vol. 30, (16), pp.46185-46203,2023. **Impact Factor:**
DEPARTMENT Of INFORMATION TECHNOLOGY			
1	**Abhishek Verma,** Virender Ranga & Dinesh Kumar Vishwakarma	A novel approach for forecasting PM2.5 pollution in Delhi using CATALYST	*Environmental Monitoring and Assessment*, Vol. 195(12), 1457,2023. **Impact Factor:3**
2.	**Akanksha Karotia,** Seba Susan,	CovSumm: an unsupervised transformer-cum-graph-based hybrid document summarization model for COVID-19	*The Journal of Supercomputing 79*, p 16328–16350, 2023, **Impact Factor 2.57**
3	**Ananya Pandey,** Dinesh Kumar Vishwakarma	VABDC-Net: A framework for Visual-Caption Sentiment Recognition via spatio-depth visual attention and bi-directional caption processing	*Knowledge-Based Systems*, Vol. 269, pp. 110515,2023. **Impact Factor:8.8**

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4	**Ankit Yadav,** Dinesh Kumar Vishwakarma	MRT-Net: Auto-adaptive weighting of manipulation residuals and texture clues for face manipulation detection	*Expert Systems with Applications*, Vol. 232, pp. 120898, 2023. **Impact Factor: 8.5**
5	**Anusha Chhabra**, Dinesh Kumar Vishwakarma	A literature survey on multimodal and multilingual automatic hate speech identification	*Multimedia Systems*, Vol. 29(3), 1203-1230,2023. **Impact Factor:3.9**
6	**Anusha Chhabra,** Dinesh Kumar Vishwakarma	Multimodal hate speech detection via multi-scale visual kernels and knowledge distillation architecture	*Engineering Applications of Artificial Intelligence*, Vol. 126, 106991,2023. **Impact Factor:8**
7	**Ashish Bajaj**, Dinesh Kumar Vishwakarma	Evading text based emotion detection mechanism via adversarial attacks	*Neurocomputing*, Vol. 558(3), pp. 126787, 2023. **Impact Factor:6**
8	**Ashish Bajaj,** Dinesh Kumar Vishwakarma	HOMOCHAR: A novel adversarial attack framework for exposing the vulnerability of text based neural sentiment classifiers	*Engineering Applications of Artificial Intelligence*, Vol. 126(2), 106815,2023. **Impact Factor:8**
9	**Deepika Varshney** Dinesh Kumar Vishwakarma	An automated multi-web platform voting framework to predict misleading information proliferated during COVID-19 outbreak using ensemble method .	*Data & Knowledge Engineering*, vol. 143(2), 102103,2023. **Impact Factor:2.5**
10	**Deepika Varshney** Dinesh Kumar Vishwakarma	Framework for detection of probable clues to predict misleading information proliferated during COVID-19 outbreak	*Neural Computing and Applications*, vol. 35,issue 1, 5999-6013,2023. **Impact Factor:6**
11	**Dinesh Kumar Vishwakarma** Shaurya Gupta	HISNet: a Human Image Segmentation Network aiding bokeh effect generation	*Multimedia Tools and Applications*, Vol. 82(8), 12469-12492,2023. **Impact Factor:3.6**
12	**Dinesh Kumar Vishwakarma** Ayush Tanwar	A deep neural network-based hybrid recommender system with user-user networks	*Multimedia Tools and Applications*, Vol. 82(1), 15613-15633,2023. **Impact Factor:3.6**
13	**Dinesh Kumar Vishwakarma,** Inder Khatri, Arjun Choudhry, Aryaman Rao, Aryan Tyagi Mukesh Prasad	Influence Maximization in social networks using discretized Harris' Hawks Optimization algorithm and Neighbour Scout Strategy	*Applied Soft Computing*, Vol. 149, 111037,2023. **Impact Factor:8.7**
14	**Nidhi,** Bindu Verma	From methods to datasets: a detailed study on facial emotion recognition	*Applied Intelligence 53*, p 30219–30249, 2023, **Impact Factor 5.3**

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15	**Priyanka Meel,** Dinesh Kumar Vishwakarma	Multi-modal fusion using Fine-tuned Self-attention and transfer learning for veracity analysis of web information	*Expert Systems with Applications*, Vol. 229, 120537,2023. **Impact Factor:8.5**
16	**Pulkit Sharma,** Rhythm Arya, Richa Verma & Bindu Verma	Conv-CapsNet: capsule based network for COVID-19 detection through X-Ray scans	*Multimedia Tools and Applications*, Vol. 82(18), pp. 28521-28545,2023. **Impact Factor:2.57**
17	**Sunakshi Mehra**, Seba Susan	Deep fusion framework for speech command recognition using acoustic and linguistic features	*Multimedia Tools and Applications, vol. 82*, pp. 38667–38691, 2023. **Impact Factor 3.6**
18	**Virender Ranga**, Aditi Zear, Kriti Bhushan	Coordinated network partition detection and bi-connected inter-partition topology creation in damaged sensor networks using multiple UAVs	*Computer Communications,* vol. *203*, pp. 15-29, 2023. **Impact factor 6**
19	**Virender Ranga** Rochak Swami, Mayank Dave	Mitigation of DDoS Attack Using Moving Target Defense in SDN	*Wireless Personal Communications*, vol. 131,issue 4, pp.2429-2443,2023. **Impact Factor:2.2**
DEPARTMENT Of MECHANICAL ENGINEERING			
1	**Abhishek Sahu** Saurabh Agrawal Girish Kumar	Triple bottom line performance of manufacturing Industry: A value engineering approach	*Sustainable Energy Technologies and Assessments*, vol. 56, pp. 103029, 2023. **Impact Factor 8**
2	**Anand Kushwah** M.K Gaur Anil Kumar	Optimization of Drying Parameters for Hybrid Indirect Solar Dryer for Banana Slices Using Response Surface Methodology	*Process Safety and Environmental Protection,* vol. 170, pp. 176-187, 2023. **Impact Factor 7.8**
3	**Anand Kushwah** M.K Gaur Pranshu Shrivastav Anil Kumar	Environmental Sustainability and Exergetic Based Sustainability Indicators for Heat Exchanger-Evacuated Tube Assisted	*Sustainable Energy Technologies and Assessments,* vol. 57, pp. 103277, 2023. **Impact Factor 8**
4	**Anand Sharma** Mahendra Singh Niranjan	Surface topography assessment using chemical assisted ball end magnetorheological finishing	*Physica Scripta,* vol. 98, pp. 115961, 2023. **Impact Factor 3.081**
5	**Anant Bhardwaj** Krovvidi Srinivas Rajiv Chaudhary	Novel electrode for thermal additive centrifugal force-assisted abrasive flow machining	*Journal of the Brazilian Society of Mechanical Sciences and Engineering* vol. 45, pp. 583, 2023. **Impact Factor 2.2**
6	**Anant Bhardwaj** Krovvidi Srinivas Rajiv Chaudhary	Analysis of Shapes of Centrifugal Force-Generating Rod in Centrifugal Force-Assisted Abrasive Flow Machining Process	*MAPAN,* vol. 38(2), pp. 459-479, 2023. **Impact Factor 1**

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7	**Anil Kumar** Mukul Sharma Deepali Atheaya	'Performance evaluation of indirect type domestic hybrid solar dryer for tomato drying: Thermal, embodied, economical and quality analysis	*Thermal Science and Engineering Progress* Vol No. 42 (1) Page no. 101882 2023 **Impact Factor 4.8**
8	**Anil Kumar** Geetam Richhariya Akash Kumar Shukla Kailash Nath Shukla Issara Chanakaewsomboon	Efficient photosensitive light harvesting dye sensitized solar cell using hibiscus and rhodamine dyes	*Journal of Power Sources* Vol No. 572 Page no. 233112 2023 **Impact Factor 9.2**
9	**Anil Kumar** Geetam Richhariya Akash Kumar Shukla K. N. Shukla Bhim Charan Meikap	Effect of Different Counter Electrodes on Power Conversion Efficiency of DSSCs	*Journal of Electronic Materials* Vol No. 52 Page no. 60–71 2023 **Impact Factor 2.1**
10	**Anil Kumar** Sanjeev Kumar Bhukesh	Simulation, modeling and experimental performance investigations of novel giant water lens solar thermoelectric generator	*Energy Conversion and Management* Vol No. 295 (1) Page no. 117656 2023 **Impact Factor 10.4**
11	**Anil Kumar,** Ravi Kant	Energy-economic and exergy-environment performance evaluation of solar energy integrated essential oil extraction system	*Solar Energy* Vol No. 265 (15) Page no. 112101 2023 **Impact Factor 6.7**
12	**Anil Kumar,** Ravi Kant	Thermo-enviro-economic analysis of conventional steam distillation system for peppermint oil extraction	*Thermal Science and Engineering Progress* Vol No. 46 (1) Page no. 102246 2023 **Impact Factor 4.8**
13	**Anil Kumar** Anil Kumar Yadav, Shailendra Sinha	Comprehensive review on performance assessment of solid oxide fuel cell-based hybrid power generation system	*Thermal Science and Engineering Progress* *Vol No. 46 (1) Page no. 102226 2023* ***Impact Factor 4.8***
14	**Anil Kumar (Student)** Anand Kushwah Anil Kumar	A novel reduced nano- phase change material based absorber for enhancing the water productivity and performance of solar desalination system	*Materials Letters,* vol. 341, pp. 134298, 2023. **Impact Factor 3**
15	**Ankit Sonthalia** Varuvel Edwin Geo Subramanian ThiyagaRajan Arivalagan Pugazhendhi Naveen Kumar Mukul Tomar	Moving ahead from hydrogen to methanol economy: scope and challenges	*Clean Technologies and Environmental Policy,* vol. 25, pp. 551–575, 2023. **Impact Factor 4.3**

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16	**Ashish Kumar** Rajiv Chaudhary, R. C. Singh	The utilisation of coconut shell ash in production of hybrid composite: Microstructural characterisation and performance analysis	*Journal of Cleaner Production,* Vol No. 398 Page no. 136494 2023 **Impact Factor 11.1**
17	Ashish Kumar	Investigation of Microstructure and Several Quality Characteristics of AA7075/Al2O3/Coconut Shell Ash Hybrid Nano Composite prepared through Ultrasonic Assisted Stir-Casting	*J. of Materi Eng and Perform* **32**, 9263–9278 2023 **Impact Factor 2.2**
18	**Ashok Kumar Singh** Samsher	Eco-Design Requisites for Solar Desaltification Still Augmented Evacuated Annular Tube Collectors with Parabolic Concentrator: An Optimum-Environ-Economic Viability	*Environment Development and Sustainability,* vol. 25, pp.. 11057–11094, 2023. **Impact Factor 4.9**
19	**Deepak Kumar** R S Walia, Pushpendra Singh, Qasim Murtaza	Synergistic effect of Al2O3–40%TiO2 coating on thermal conductivity and corrosion rate of SS 304 substrate	*SADHANA - Academy Proceedings in Engineering Sciences, Springer* Vol No. 48 (266) 10 Jan 2023 **Impact Factor 1.6**
20	**Gaurav Kumar** Raj Kumar Singh	Supercritical water flow in heated wire wrapped rod bundle channels: A review	*Progress in Nuclear Energy,* vol. 158, pp. 104620, 2023. **Impact Factor 2.7**
21	**Girish Kumar** Ajith Tom James Mohammad Asjad Vipin Chandra Shukla Vedpal Arya	Analyzing barriers for implementing new vehicle scrap policy in India	*Transportation Research Part D: Transport and Environment,* vol. 114(2023), pp. 103568, 2023. **Impact Factor 7.6**
22	**Girish Kumar** Ajith Tom James Aman Pundhir Saurabh Tiwari Rubal Sharma	Assessment of sustainable maintenance performance of automobile garages in India	*International Journal of Environmental Science and Technology,* vol. 20, pp. 9945–9962, 2023. **Impact Factor 3.1**
23	**Girish Kumar** Ram C. Bhujel Mohammad Asjad Aniket Aggarwal Divyansh Gupta Ashish Yadav	Analyzing the barriers for aquaponics adoption using integrated BWM and fuzzy DEMATEL approach in Indian context	*Environmental Science and Pollution Research,* vol.. 30, pp. 47800–47821, 2023. **Impact Factor 5.8**
24	**Hari Shanker** Reeta Wattal	Comparative study of microstructural and mechanical properties of robotic CMT and GMAW welded 7475-T7351 aluminium alloy joints	*Materials Today Communications,* vol. 37, pp. 2352-4928, 2023. **Impact Factor 3.8**

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25	**Khushbu Yadav** Naveen Kumar Rajiv Chaudhary	ANN prediction approach analysis for performance and emission of antioxidant-treated waste cooking oil biodiesel	*International Journal of Environmental Science and Technology,* vol. 20, pp. 12581-12596, 2023. **Impact Factor 3.1**
26	**Madhukar Chhimwal** Saurabh Agrawal Girish Kumar	Markovian approach to evaluate circularity in supply chain of non ferrous metal industry	*Resources Policy,* vol. 80, pp. 103260, 2023. **Impact Factor 10.2**
27	Mohd Asjad Siddiqui	Development and assessment of a novel natural gas fuelled HCCI engine based combined power, heating, and refrigeration system	*Energy,* vol. 283, pp. 128994, 2023. **Impact Factor 9**
28	**Mohit Vishnoi** Qasim Murtaza Paras Kumar	Mechanical and Erosion Characterization of Untreated and Solution-Treated Nitrogen-Alloyed (23-8N) Austenitic Stainless Steel	*Journal of Materials Engineering and Performance,* vol. 32, 11 Jan 2023. **Impact Factor 2.3**
29	**Mohit Vishnoi** Qasim Murtaza Paras Kumar	Mechanical and surface characterization of Er2O3/La2O3/ CeO2 doped carbide coating developed using high velocity oxy fuel (HVOf)	*Physica Scripta,* Vol. 98, 12 Jan 2023. **Impact Factor 2.9**
30	**Neelam Baghel** Anil Kumar Manjunath K	Performance evaluation and optimization of albedo and tilt angle for solar photovoltaic system	*Computers and Electrical Engineering,* vol. 110, pp. 108849, September 2023. **Impact Factor 4.3**
31	**NeeRaj BudhRaja** Amit Pal R. S. Mishra	Plasma reforming for hydrogen production: Pathways, reactors and storage	*International Journal of Hydrogen Energy,* vol. 48, pp. 2467 – 2482, 2023. **Impact Factor 7.2**
32	**NeeRaj BudhRaja** Amit Pal R. S. Mishra	Optimizing Methanol Reforming Parameters for Enhanced Hydrogen Selectivity in an Aspen Hysys Simulator using Response Surface Methodology	*Energy Technology,* vol. 11, pp. 2300203, 2023. **Impact Factor 3.8**
33	**Niranjan Sahoo** Anil Kumar Samsher	Design of solar cement plant for supplying thermal energy in cement production	*Journal of Cleaner Production,* vol. 426, pp. 139151, 2023. **Impact Factor 11.1**
34	**Niranjan Sahoo**	Potential of solar thermal calciner technology for cement production in India and consequent carbon mitigation	*Process Safety and Environmental Protection* Vol. 179, November 2023, Pages 667-676 **Impact Factor 6.9**

S. No.	Authors	Paper Title	Journal with Publications details
35	**Nitin Sehra,** Sushila Rani,	Failure investigations of last stage low-pressure steam turbine blade	*Journal of Mechanical Science and Technology*, Vol. 37, page No. 4017–4023, 2023 ***Impact Factor 1.5***
36	**N YuvaRaj** Yashwant Koli G. Vedabouriswaran Plash Issar	Mechanical and Tribological Properties of AA6061/SiC/Aloe Vera Powder Hybrid Al Composites Fabricated by Stir Casting	*Silicon,* vol. 15,pp. 2451-2465, 2023. **Impact Factor 3.4**
37	**Piu Jain**, Gayatry Kansal, S K Garg		*Production Planning & Control*, Vol.34, Page No. 173-188, 2023 **Impact Factor 8.3**
38	**Prabhat Ranjan** R.S.Walia Rajesh Kumar	Morphological, microstructural and mechanical study of FGM coatings prepared using HVOf technique	*Journal of Mechanical Science and Technology,* vol. 37, pp. 5855-5864, 2023. **Impact Factor 1.6**
39	**Prem shanker Yadav** Zafar Said Hakan Caliskan Roshan Raman Raghvendra Gautam	Novel investigation on atomization, performance, and emission characteristics of preheated jatropha oil methyl ester and ethyl ester	*Energy,* vol. 270, pp. 126870, 2023. **Impact Factor *9***
40	**Rajesh Kumar** Faizan Khalid	Thermodynamic assessment of a new PTC operated polygeneration system for freshwater, cooling, electricity and hydrogen production for a residential community	*International Journal of Hydrogen Energy,* vol. 48, pp. 38991-39001, 2023. **Impact Factor 7.2**
41	**Ravi Kant** Anil Kumar	Thermodynamic analysis of solar assisted steam distillation system for peppermint oil extraction	*Journal of Food Process Engineering,* vol. 46, 11 Jan 2023. **Impact Factor 3**
42	**Ravi Kant** Mahesh Kumar Anand Kushwah Anil Kumar	Solar drying of peppermint leave: Thermal characteristics, drying kinetics, and quality assessment	*Journal of Stored Products Research,* vol. 100, pp. 102068, 2023. **Impact Factor 2.7**
43	**Rashin Khera** Ashutosh Mishra B. B. Arora Akhilesh Arora	Performance analysis and multi-objective optimization of a vortex tube integrated single-stage vapour compression refrigeration cycle	*International Journal of Refrigeration,* vol. 154, pp. 335-348, 2023. **Impact Factor 3.9**
44	**S. Lalhriatpuia** Amit Pal	Computational optimization of engine performance and emission responses for dual fuel Cl engine powered with biogas and Co3O4 nanoparticles doped biodiesel	*Fuel* Vol.344, PP.475–477,127892, 2023 **Impact Factor 7.4**

S. No.	Authors	Paper Title	Journal with Publications details
45	**S. Lalhriatpuia** Amit Pal	Computational optimization of engine emission and performance of a Cl engine powered with biogas and NiO nanoparticles doped diesel	*Environmental Progress and Sustainable Energy* Volume 42, Issue6 November/ December 2023 e14207 **Impact Factor 2.1**
46	**Saket Kumar** Raghvendra Gautam	Energy and exergy assessment of diesel-tallow biodiesel blend in compression ignition engine for engine design variables	*Sustainable Energy Technologies and Assessments,* Vol No. 57 Page no. 2213-1388 2023 **Impact Factor 8**
47	**Sanjeev Kumar** Amit Pal	Life cycle analysis of biodiesel derived from fresh water microalgae and Karanja	*Sustainable Energy Technologies and Assessments,* vol. 56, pp. 103082, 2023. **Impact Factor *8***
48	**Sankar Ram T.** Soumen Kar Vikas Rastogi	Multi-physics modelling of quench in a superconducting magnet using bond graph	*Physica C: Superconductivity and its Applications,* vol. 604, pp. 1354179, 2023. **Impact Factor 1.7**
49	**Sankar Ram T.** Soumen Kar Vikas Rastogi	Multiphysics Stress Analysis of a 1.5 T Superconducting MRI Magnet	*Journal of Superconductivity and Novel Magnetism.* vol. 36, pp. 467, 2023. **Impact Factor 1.8**
50	**Shahazad Ali** Pallav Gupta Qasim Murtaza	Synergetic Effect of Gr-B4C Reinforcement on the Structural and Mechanical Properties of AA6351 Hybrid Metal Matrix Composites	*ECS Journal of Solid State Science and Technology,* vol. 12, pp. 67002, 2023**.** **Impact Factor 2.2**
51	**Sharat Chandra Srivastava** Paras Kumar, Qasim Murtaza	Microstructural analysis of microwave processed EWAC + Cr3C2 cladding on SS-304 substrate	*Physica Scripta,* Vol No. 98 Page no. 11 2023 **Impact Factor 2.9**
52	**Shubhangi Chourasia** Qasim Murtaza Saurabh Agarwal Kalpana Gupta	Redefining Industry 5.0 in Ophthalmology and Digital Metrology: A Global Perspective	*MAPAN-Journal of Metrology Society of India* vol. 38(2), pp. 527–545, June 2023. **Impact Factor 1**
53	**Sumit Jain** R. S. Mishra Husain Mehdi	Influence of SiC Microparticles and Multi-Pass FSW on Weld Quality of the AA6082 and AA5083 Dissimilar Joints	*Silicon,* vol. 15, pp. 6185–6197, 2023. **Impact Factor 3.4**
54	**Sumit Jain** R. S. Mishra	Parametric Optimization of FSWed Dissimilar Composite Joints of AA7075 and AA6061 Using RSM	*Transactions of the Indian Institute of Metals,* vol. 76, pp. 2993–3006, 2023. **Impact Factor 1.6**

S. No.	Authors	Paper Title	Journal with Publications details
55	**Sunil Kumar Gupta** B. B. Arora Akhilesh Arora	Effect of Evaporative Cooling of Condenser on the Performance of Air Conditioner	*Iranian Journal of Science and Technology Transactions of Mechanical Engineering* Vol No. 47 Page no. 1661-1677 2023 **Impact Factor 1.5**
56	**Sunil Kumar Gupta** B. B. Arora Akhilesh Arora	Effect of varying ambient conditions on the performance of air conditioner using evaporative cooler	*Journal of the Brazil Society of Mechanical Sciences and Engineering,* vol. 45, pp. 13, 2023. **Impact Factor 2.2**
57	**SuRaj Bhan** Raghvendra gautam Puspendra Singh	Application of response surface approach to optimize CI engine parameters fuelled by newly developed waste cooking biodiesel in fused with Al2O3 nanoparticles	*Environmental progress and sustainable energy* Vol No. 42 Page no. e14151 2023 **Impact Factor 2.8**
58	**Syed Wasiul Hasan Rizvi** Saurabh Sgrawal, Qasim Murtaza	Automotive industry and industry 4.0-Circular economy nexus through the consumers' and manufacturers perspectives: A case study	*Renewable and Sustainable Energy Reviews,* vol. 183, pp. 113517, 2023. **Impact Factor 15.9**
59	**Tayyab Khan**, Akshat Kumar Garg, Avyay Gupta, A.K. Madan, P.K. Jain	Comprehensive review on latest advances on rechargeable batteries	*Journal of Energy Storage*, Vol. 57, Page No. 106204, 2023 **Impact Factor 8.9**
60	**Yunis Khan** R. S. Mishra	Performance analysis of a solar based novel trigeneration system using cascaded vapor absorption-compression refrigeration system	*International Journal of Refrigeration,* vol. 155, pp. 207-218, 2023. **Impact Factor 3.9**
61	**Yunis Khan** Mohammad Mehdi Rashidi Hakan Caliskan Manish Kumar Chauhan Akhilesh Kumar Chauhan Roshan Raman	Thermodynamic analysis and experimental investigation of the water spray cooling of photovoltaic solar panels	*Journal of Thermal Analysis and Calorimetry,* vol. 148, pp. 5591–5602, 2023. **Impact Factor 4.4**
DEPARTMENT Of SOfTWARE ENGINEERING			
1	**Massoud Massoudi** Ruchika Malhotra Rajni Jindal	Shifting from traditional engineering education towards competency-based approach: The most recommended approach-review	*Education and Information Technologies*, vol. 28, pp. 9081-9111, 2023. **Impact Factor: 5.2**
2.	**Rahul** Rahul Katarya	Deep auto encoder based on a transient search capsule network for student performance prediction	*Multimedia Tools and Applications*, vol. *82* (15), pp. 23427-23451,2023. **Impact Factor : 3.6**

S. No.	Authors	Paper Title	Journal with Publications details
3.	**Roshni Singh** Abhilasha Sharma	ConvST-LSTM-Net: convolutional spatiotemporal LSTM networks for skeleton-based human action recognition	*International Journal of Multimedia Information Retrieval*, vol. *12* (2), pp. 34,2023. **Impact Factor: 5.6**
4.	**Ruchika Malhotra** Priya Singh	Recent advances in deep learning models: a systematic literature review	*Multimedia Tools and Applications*, vol. 82(29), pp. 44977-45060,2023. **Impact Factor: 3.6**
5.	**Ruchika Malhotra** Bhawna Jain Marouane Kessentini	Examining deep learning's capability to spot code smells: a systematic literature review	*Cluster Computing*, vol. 26(6), pp. 3473-3501,2023. **Impact Factor : 4.4**
6.	**Ruchika Malhotra** Massoud Massoudi Rajni Jindal	An alumni-based collaborative model to strengthen academia and industry partnership: The current challenges and strengths	*Education and Information Technologies*, vol. 28(2), pp. 2263-2289,2023. **Impact Factor: 5.2**
7.	**Ruchika Malhotra** Sonali Chawla Anjali Sharma	Software defect prediction using hybrid techniques: a systematic literature review	*Soft Computing*, vol. 27(12), pp. 8255-8288,2023. **Impact Factor:4.1**
UNIVERSITY SCHOOL Of MANAGEMENT & ENTREPRENEURSHIP			
1.	Naval Garg	Development and Validation of Hindu Gratitude Scale (HGS-15): A Rnas Perspective	*Journal of religion and health*, vol. *62*(5), pp. 3622-3639,2023. **Impact Factor: 2.8**
2.	Naval Garg	Validation of the Transpersonal Gratitude Scale (TGS) and the Relationship between Transpersonal Gratitude, Spiritual Well-Being and Distress in India	*Journal of religion and health*, vol. *62*(5), pp. 3604-3621,2023. **Impact Factor: 2.8**
3.	**Naval Garg** Mehak	Gratitude resentment and appreciation scale (GRAT-16): analyzing psychometrics properties in the Indian context	*Current Psychology*, pp. 1-10, 2023. **Impact Factor: 2.8**
4.	**Mehak Nanda** Rajesh Sharma	A comprehensive examination of the economic impact of out-of-pocket health expenditures in India	*Health Policy and Planning* vol. 38, pp. 926-938, 2023. **Impact Factor: 3.2**

Premier Research Awards

Biography

ANIL KUMAR

Department of Applied Chemistry

Prof. Anil Kumar is Professor and Head at the Department of Applied Chemistry, Delhi Technological University (formerly Delhi College of Engineering), Delhi, India. He received his master's and doctorate degree in chemistry from the University of Roorkee, Roorkee (Now IIT Roorkee) and Indian Institute of Technology, Kanpur, India, respectively. He has received Academia Sinica fellowship, Taiwan, from 2007-2009 and Schulich post-doctoral fellowship, Technion, IIT Haifa, Israel 2009-2010. He was also visiting associate professor at Technion, IIT Haifa, Israel 2020-2021. His research interests are in coordination chemistry, porphyrinoid based bio-inorganic chemistry and material chemistry. He has published 48 research papers in national, international journals and conferences. He has guided 09 Ph.D students.

Award Summary and Publication Details

Category Detail	No. of Publications
Premier Research Award	01

1. **Kumar A.,** Kim D., Kumar S., Mahammed A., Churchill D. G., Gross Z. (2023). Milestones in corrole chemistry: historical ligand syntheses and post-functionalization. *Chemical Society Reviews*, *52*(2), 573-600. **Impact Factor: 6.0**

Biography

SHRUTI AGARWAL

Department of Applied Mathematics

Ms. Shruti Aggarwal is pursuing PhD in the area of Quantum Information Theory from Department of Applied Mathematics, Delhi Technological University. She received her bachelor's as well as master's in mathematics from University of Delhi. She qualified JRF and joined DTU under CSIR fellowship in the year 2019. Her research work is primarily based on characterization of entanglement in higher dimensional bipartite as well as multipartite quantum systems. So far, she has published two research papers in reputed SCI journals. She has also presented her work in national and international conferences.

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. **Aggarwal, S.**, Kumari, A., & Adhikari, S. (2023). Physical realization of realignment criteria using the structural physical approximation. *Physical Review A*, *108*(1), 012422,**Impact Factor 2.9**

Biography

TRASHA GUPTA

Department of Applied Mathematics

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. **Gupta, T.**, Jindal, R., & Sreedevi, I. (2023). Empirical Review of Various Thermography-based Computer-aided Diagnostic Systems for Multiple Diseases. *ACM Transactions on Intelligent Systems and Technology*, *14*(3), 1-33. **Impact Factor 5**

Biography

RISHU CHAUJAR

Department of Applied Physics

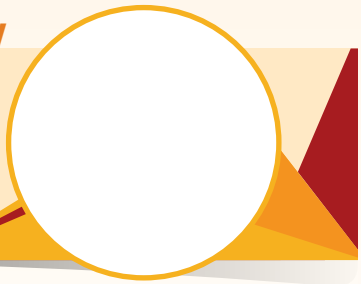
Rishu Chaujar is presently working as a Professor in Department of Applied Physics and Centre Coordinator, Vinod Dham Centre of Semiconductor Research, DTU; and is involved in teaching the B.Tech, M.Sc. and M.Tech courses. She was honored with the University Gold Medal in M.Sc. (Electronics) and College Topper in B.Sc. (H) Electronics in Delhi University. 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 353 papers in various reputed international and national journals and conferences. She has supervised around 20 M.Tech/M.Sc. students, 10 Ph.D scholars; and 8 Ph.D scholars are presently working under her supervision. She has been awarded the PREMIER RESEARCH AWARD in 2018 and COMMENDABLE RESEARCH AWARD for excellence in research, Delhi Technological University, for the six consecutive years from 2018- 2023. In addition, she has also been awarded the Cumulative Citation Award: SILVER and Early Research Impact & Influence Award in 2023. 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 in 2022. She is a reviewer of various reputed international journals. She is a Fellow of IETE, Fellow of OSI, Life member of NASI and members of various international professional societies.

Award Summary and Publication Details

Citation Awards	
Yearly Citation Award (Early Research Impact and Influence Award)	
Category Name	No. of Publications
Commendable Research Award	03

1. **Chaujar R.,** Getnet M.,2023, "Sensitivity Investigation of Junctionless Gate-all-around Silicon Nanowire Field-Effect Transistor-Based Hydrogen Gas Sensor", *Silicon 15* , p609-621, **Impact Factor 3.4**
2. **Chaujar R.,** Sharma M., Kumar B.,2023, "Small signal and noise analysis of T-gate HEMT with polarization doped buffer for LNAs", *Micro and Nanostructures 180* , p207593, **Impact Factor 3.1**
3. **Chaujar R.,** Kumar B., Sharma M.,2023, "Polarization induced doping and high-k passivation engineering on T-gate MOS-HEMT for improved RF/microwave performance", *Material Science And Engineering B* 290 , p116298, **Impact Factor 3.6**

Biography



AMIT KUMAR SRIVASTAVA

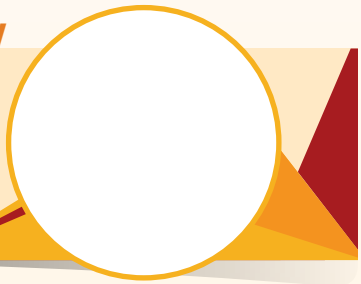
Department of Civil Engineering

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. **Shrivastava, A. K.,** & Rao, K. S. (2022). Shear behaviour of infilled rock joints under different boundary conditions. *Proceedings of the Institution of Civil Engineers-Geotechnical Engineering*, *176*(5), 419-433, **Impact Factor 1.953**

Biography



VIJAY K MINOCHA

Department of Civil engineering

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. Pandey, M., Jamei, M., Karbasi, M., Ahmadianfar, I., & Chu, X. (2021). Prediction of maximum scour depth near spur dikes in uniform bed sediment using stacked generalization ensemble tree-based frameworks. *Journal of Irrigation and Drainage Engineering*, *147*(11), 04021050. **Impact Factor 2.6**

Biography

DIPIKA JAIN

Department of Computer Science & Engineering

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. Kumar, A., Beniwal, R., & **Jain, D.** (2023). Personality detection using kernel-based ensemble model for leveraging social psychology in online networks. *ACM Transactions on Asian and Low-Resource Language Information Processing*, *22*(5), 1-20, **Impact Factor 2**

Biography

MANISHA SAINI

Department of Computer Science & Engineering

Manisha Saini is currently pursuing Ph.D. in Computer Science and Engineering Department from Delhi Technological University, India. Her research interests include Computer Vision, Neural Networks, Machine Learning, and Deep Learning. She has more than seven years of combined academic and industrial experience. She is currently working as an Artificial Intelligence Research Engineer at a B2B based computer vision startup after her experience as a Senior Computer Vision Engineer working at an early-stage B2C tech startup. Previously, she had worked as an Assistant Professor in the Department of Computer Science and Engineering at Manav Rachna International Institute of Research and Studies, Faridabad and served as an Assistant Professor at the Department of Computer Science and Engineering, G D Goenka University, Gurgaon.

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. **Saini, M.,** & Susan, S. (2022). Vggin-net: Deep transfer network for imbalanced breast cancer dataset. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, *20*(1), 752-762. **Impact Factor 4.5**

Biography

RAHUL KATARYA

Department of Computer Science & Engineering

Rahul Katarya is working in the Department of Computer Science & Engineering, at Delhi Technological University (DTU) (formerly Delhi College of Engineering), New Delhi, India. He was selected World's top 2% Scientist in the year 2020, 2021 and 2022 by Stanford University, USA in the Science-Metrix category (Artificial Intelligence & Image Processing). He is the officer-in-charge of the "Big Data Analytics and Web Intelligence" (BDAWI) Laboratory, and the CALIBRE research group is associated with this laboratory. His research interests are Big Data Analytics, Data Science, Web Mining, Social Networks, Recommender Systems, Artificial Intelligence, Machine Learning, Web Personalization, Deep Learning, Knowledge Discovery & Management, Computational Intelligence, Climate change, healthcare and Online Human Behaviour Analysis etc. He is a valued Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) and a Life Member of the Computer Society of India (CSI). He is a reviewer of various IEEE Transactions, Elsevier and Springer journals. He has published various research articles in Science Citation Index (SCI) indexed international journals and in IEEE international conferences. Delhi Technological University awarded him the ``Commendable Research Award" for excellence in research for the years 2017- 2022. He has delivered various expert talks in Russia, Japan, the USA and New Zealand on Big Data analytics, Artificial Intelligence, Healthcare, Climate change and Data Mining. Prof. Rahul Katarya was Elected as a Member of the Asia-Pacific Artificial Intelligence Association (AAIA) on May 23, 2022. Prof. Rahul Katarya was selected as a young scientist in International Cooperation Division, Department of Science & Technology (DST), Govt. of India, 5th BRICS Young Scientists Conclave-2020 Chelyabinsk, Russia of the theme "BRICS Partnership of Young Scientists and Innovators for Science Progress and Innovative growth" September 21-25, 2020 Chelyabinsk, Russia. Prof. Rahul Katarya was also selected & invited by Japan Science & Technology (JST) for the special invitation program designed for young Indian officers and researchers under the framework of the Japan-Asia Youth Exchange program in SAKURA SCIENCE Exchange Program, Japan from 26 to February 1, 2020, administered by Japan Science & Technology Agency, Tokyo, Japan. Prof. Rahul Katarya (Only team from India, with two DTU undergraduate students) was selected, participated and contributed in Otago Polytechnic, New Zealand and Untouched World Foundation Engineering Waterwise Programme in Central Otago, New Zealand from 17 March to 6 April 2019. This Programme is a part of the UNESCO Global Action Programme based on youth leadership, international citizenship, sustainable development, and quality education, and is a partnership between Otago Polytechnic and the Untouched World Foundation, with support from Education New Zealand.

Award Summary & Publications Details

Citation Awards	
Cumulative Citation Award (Silver)	
Yearly Citation Award (Early Research Impact and Influence Award)	
Category Name	**No. of Publications**
Premier Research Award	1
Commendable Research Award	3

1. **Katarya R.** Jan 2023, 'Towards the significance of taxi recommendation systems in smart cities.' *Concurrency and Computation: Practice and Experience* , Vol no. 35 22 **Impact Factor 2**

2. Gupta A., **Katarya R.,** Jan 2023, 'A deep-SIQRV epidemic model for COVID-19 to access the impact of prevention and control measures.' *Computational Biology and Chemistry*, Vol no. 107 10 **Impact Factor 3.1**

3. Gupta G. ,**Katarya R.,** Jan 2023, 'A novel approach to alleviate data sparsity and generate dynamic fruit recommendations from point-of-sale data' *Concurrency and Computation: Practice and Experience*, Vol no. 35 11 **Impact Factor 2**

4. Jain L., Katarya R., & Sachdeva S. 2023. "Opinion leaders for information diffusion using graph neural networks in online social networks". *ACM Transactions on the Web*, *17*(2), 1-37. **Impact Factor: 3.5**

Biography

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, 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 more than 50 articles and proceeding papers in reputed journals and conferences, including 20 papers in top rated SCI/SCIE journals. He is also associated with numerous Springer and Elsevier journals as reviewers.

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	02

1. **Kumar, S.,** Kumar, A., & Panda, B. S. (2022). Identifying influential nodes for smart enterprises using community structure with integrated feature ranking. *IEEE Transactions on Industrial Informatics*, *19*(1), 703-711. **Impact Factor 12.3**

2. **Kumar, S**., Kumar, A., Mallik, A., & Dhall, S. (2023). Opinion leader detection in Asian social networks using modified spider monkey optimization. *ACM Transactions on Asian and Low-Resource Language Information Processing*, *22*(5), 1-26. **Impact Factor 2**

Biography

AYUSH DHAIYA

Department of Electronics & communication

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. **Dahiya, A.,** Mittal, P., & Rohilla, R. (2023). Modified decoupled sense amplifier with improved sensing speed for low-voltage differential SRAM. *ACM Transactions on Design Automation of Electronic Systems*, *28*(6), 1-15.

Biography

BHAWNA RAWAT

Department of Electronics & Communication

Ms. Bhawna Rawat is a Ph.D. research scholar in the Department of Electronics and Communication Engineering at Delhi Technological University under the supervision of Prof. Poornima Mittal. Her research interests include low power circuit design and memory circuits in emerging technologies. She received her B. Tech Degree in Electronics and Communication Engineering from Shiv Nadar University, Greater Noida, and M.Tech degree in VLSI Design from Indira Gandhi Delhi Technical University for Women, Delhi. She is GATE qualified and receives DTU fellowship. She has awarded commendable research award for the year 2021.

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. **Rawat, B., &** Mittal, P. (2023). A Reconfigurable 7T SRAM Bit Cell for High Speed, Power Saving and Low Voltage Application. *ACM Transactions on Design Automation of Electronic Systems*, *28*(6), 1-14. **Impact Factor 1.4**

Biography

POORNIMA MITTAL

Department of Electronics & Communication

Prof. Poornima Mittal (Ph.D, M.Tech(H), B.Tech), Member IEEE has published 150+ research papers in international journals and conferences of repute. Her research interest includes design/modeling of flexible electronic devices, memory and low power VLSI circuits. She has published two patents on novel TFT structure and memory design. Also, she has published a Text Book titled "Organic Thin-Film-Transistor Applications: Materials to Circuits" by CRC Press, Taylor & Francis in 2016. She is the reviewer of IEEE transactions and other reputed international journals of IEEE, IET, Elsevier, IOP, Wiley and Taylor & Francis. She has received the research awards in 2012 and 2015 for her dedicated research at Graphic Era University, Dehradun. Also, she has received Premier/Commendable Research Awards in 2019, 2020, 2021 and 2022 at Delhi Technological University (DTU), Delhi, India. 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 more than 17 years of academic and research experience. Presently, she is working as Professor in the Department of ECE at DTU, Delhi.

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. Rawat, B., & **Mittal, P.** (2023). A switching NMOS based single ended sense amplifier for high density SRAM applications. *ACM Transactions on Design Automation of Electronic Systems*, *28*(3), 1-14**. Impact Factor 1.4**

Biography

SNEHLATA YADAV

Department of Electronics & Communication

Snehlata Yadav received the B.Tech. degree in ECE from Uttar Pradesh Technical University, India, in 2014, and the M.Tech. degree in Microelectronics from the National Institute of Technology, Srinagar (J&K), India, in 2018. She has rendered her services in the Electrical Engineering department at IIT Jammu for a year. She is currently pursuing a Ph.D. degree at Delhi Technological University, India.

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. **Yadav, S.,** Rewari, S., & Pandey, R. (2023). Impact of temperature on a ferroelectric interfaced negative capacitance double gate junctionless accumulation mode field effect transistor-compact model. *Proceedings of the Royal Society A*, *479*(2271), 20220528.**Impact Factor 3.5**

Biography

RANJEET SINGH

Department of Electrical Engineering

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. **Singh, R.,** Yadav, V. K., & Singh, M. (2023). Optimal shade dispersion strategy for enhanced pv power extraction under pscs. *IEEE Transactions on Power Electronics*. **Impact Factor 1.3**

Biography

RUPAM SINGH

Department of Electrical Engineering

Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	01

1. **Singh, R.,** & Bhushan, B. (2022). Reinforcement learning-based model-free controller for feedback stabilization of robotic systems. *IEEE Transactions on Neural Networks and Learning Systems*, *34*(10), 7059-7073. **Impact Factor 6.7**

Biography

SHATAKSHI JHA

Department of Electrical Engineering

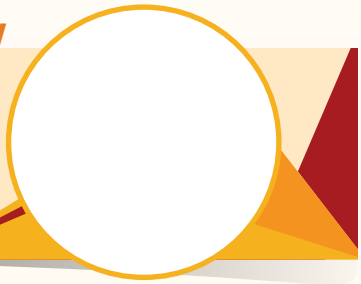
Award Summary and Publication Details

Category Name	No of Publications
Premier Research Award	02

1. **Jha, S.,** Singh, B., & Mishra, S. (2022). Control of ILC in an autonomous AC–DC hybrid microgrid with unbalanced nonlinear AC loads. *IEEE Transactions on Industrial Electronics*, *70*(1), 544-554.**Impact Factor 8.1**

2. **Jha, S.,** Singh, B., & Mishra, S. (2023). Rule-based power management and quality enhancement in a standalone microgrid. *IEEE Transactions on Industry Applications*, *59*(4), 4484-4494.**Impact Factor 4.0**

Biography



BINDU VERMA

Department of Information Technology

Dr. Bindu Verma is a faculty in the Department of Information Technology at Delhi Technological University (Formerly known as Delhi College of Engineering). She earned a masters and Doctorate degree in Automated Intent Recognition using Hand Gesture and Face Expression Analysis from School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi. She is passionate to work in the area of computer vision, machine learning, human computer interaction, intelligent systems, and affective state monitoring. I have made substantial contributions to the field of human-computer interaction, emotion recognition, and intent recognition with many research articles published in international conferences and journals. I am the reviewer of many International Journals such as IET intelligent transport system, IEEE Transactions on Circuits and Systems for Video Technology, intelligent transportation system conferences, etc.

Award Summary and Publication Details

Category Detail	No .of Publications
Premier Research Award	01

1. Mittal H., & **Verma B.** 2023, 'CAT-CapsNet: A convolutional and attention based capsule network to detect the driver's distraction'. *IEEE Transactions on Intelligent Transportation Systems*. **Impact Factor : 8.5**

Biography

DINESH KUMAR VISHWAKARMA

Department of Information Technology

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, 2018, 2019, 2020, 2021 and 2022. 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 2023, 2022 and 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

Award Summary and Publication Details

Citation Awards	
Cumulative Citation Awards : Gold	
Highly Citation Award01 :	
Yearly Citation Award)Early Research Impact and Influence Award)	
Category Name	**No .of Publications**
Premium Research Award	02
Commendable Research Award	03

1. Gautam, N., & **Vishwakarma, D. K**.,2022. Obscenity detection in videos through a sequential convnet pipeline classifier. *IEEE Transactions on Cognitive and Developmental Systems, 15*(1), 310-318, **Impact Factor 5.**

2. Yadav, A., & **Vishwakarma, D. K**. ,2023. A deep multi-level attentive network for multimodal sentiment analysis. *ACM Transactions on Multimedia Computing, Communications and Applications, 19*(1), 1-19, **Impact Factor 5.1.**

3. Gupta S., and **Vishwakarma D.K**., 2023, 'HISNet: a Human Image Segmentation Network aiding bokeh effect generation', *Multimedia Tools and Applications 82*, 12469–12492, **Impact Factor 3.6.**

4. Tanwar A., and Vishwakarma D.K., 2023, 'A deep neural network-based hybrid recommender system with user-user networks', *Multimedia Tools and Applications 82*, 15613–15633, **Impact Factor 3.6**.

5. Khatra I., Choudhary A., Rao A., Tyagi A., Vishwakarma D.K., 2023 'Influence Maximization in social networks using discretized Harris' Hawks Optimization algorithm', *Applied Soft Computing 149*, **Impact Factor 8.7.**

Biography

ANIL KUMAR

Department of Mechanical Engineering

Dr. Anil Kumar is Associate Professor in Department of Mechanical Engineering, with an additional charge of Additional Coordinator-Centre for Energy and Environment, Delhi Technological University, Delhi, India. He completed his Ph.D. in Solar Energy from Indian Institute of Technology Delhi, India in 2007. He was Post-Doctoral Researcher at Energy Technology Research Center, Department of Mechanical Engineering, Faculty of Engineering, Prince of Songkla University, Hat Yai, Songkhla, Thailand in the discipline of Energy Technology. His nature of experience in Teaching and Research (Science, Technology, Society, and Sustainable Development). His areas of specialization are; Energy Technology, Energy Economics, Heat Transfer, and Environmental Issues. He has published 195 papers in international peer-reviewed journals and 80 papers in the International/Nationalconferences proceeding. He has received more than 6700+ citations with 45 h-index (Google Scholar) and 4200+ citations with 36 h-index (SCOPUS). He authored 12 books (4 National and 8 International editions). He is Fellow and Chartered Engineer of The Institution of Engineers (India) (vide no. F-1268879, date of election 24-08-2020). He appears in the most cited number Information Systems (IS) researchers featured in the World Ranking of"Top 2% scientists created by Stanford University since 2019". He also appeared in AD Scientific Index 2021, 2022 and 2023: World Scientist and University Rankings. 01 granted patent and 03 published patents in his credit.He has supervised 10 Ph.D. scholars, 43 master students. Dr. Kumar has visited countries, namely UK, Thailand, and Malaysia.

Award Summary and Publications Details

Citation Award	
Cumulative Citation Award) Platinum)	
Yearly Citation Award) Early Research Impact and Influence Award(	
Category Name	**No .of Publications**
Premier Research Award	2
Commendable Research Award	7

1. Singh P., Gaur M. K., Tiwari G. N., & Kumar A., 2023, "Thermal Modeling of Water-in-Tube Type Evacuated Tube Solar Collectors to Predict Outlet Water Temperature: An Experimental Validation" *Journal of Solar Energy Engineering*, *145*(2), 021004 **Impact Factor: 2.3.**

2. Kushwah A., Kumar A., Gaur M. K., & Pal A., 2023 "Heat and Mass Transfer, Quality, Performance Analysis, and Modeling of Thin Layer Drying Kinetics of Banana Slices" J*ournal of Solar Energy Engineering 2023 145*(5), 051010. **Impact Factor: 10.4.**

3. Sharma M., Atheaya D., Kumar A., 2023 ,'Performance evaluation of indirect type domestic hybrid solar dryer for tomato drying: Thermal, embodied, economical and quality analysis' *Thermal Science and Engineering Progress* Vol No. 42 (1) Page no. 101882 **Impact Factor 4.8.**

4. Richhariya G., Shukla A.K.,Shukla K.N., Chanakaewsomboon I., Kumar A., 2023 ,'Efficient photosensitive light harvesting dye sensitized solar cell using hibiscus and rhodamine dyes' Journal of Power Sources Vol No. 572 Page no. 233112 **Impact Factor 9.2.**

5. Richhariya G., Shukla A.K.,Shukla K.N., & Meikap B.C., Kumar A., 2023 ,'Effect of Different Counter Electrodes on Power Conversion Efficiency of DSSCs' *Journal of Electronic Materials* Vol No. 52 Page no. 60–71 **Impact Factor 2.1.**

6. Bhukesh S.K., Kumar A., 2023, 'Simulation, modeling and experimental performance investigations of novel giant water lens solar thermoelectric generator' *Energy Conversion and Management* Vol No. 295 (1) Page no. 117656 **Impact Factor 10.4.**

Biography

ASHUTOSH MISHRA

Department of Mechanical Engineering

Award Summary and Publication Details

Category Detail	No .of Publications
Premier Research Award	01

1. **Mishra, A.,** Arora, B. B., & Arora, A. (2023). Multi-objective optimization of an inlet air-cooled combined cycle power plant. *Journal of Thermal Science and Engineering Applications*, *15*(7), 071005. **Impact Factor 2.1**

Commendable Research Awards

Department of
Applied Chemistry

Biography

ANVITA CHAUDHARY

Department of Applied Chemistry

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.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Chaudhary A.**, Srivastava R., "Ionic Liquid-Assisted Depolymerization of Condensation Polymers: A Review" *ChemistrySelect 8*, e202301709, 2023, **Impact factor 2.1**

Biography

BHAMINI

Department of Applied Chemistry

Ms. Bhamini received her B.Sc. (Hons) in chemistry from Daulat Ram College and M.Sc. degree from Department of Chemistry, University of Delhi. Currently, she is pursuing PhD under the guidance of Dr. Poonam Singh at Delhi Technological University, India. Her research is focused on inorganic layered materials and their composites with emphasis on environmental applications. She has successfully defended her thesis and is currently working as an assistant professor at KCC institute, Greater Noida.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Pandey B.** and Singh P., "Statistical optimization of process parameters for ultrafast uptake of anionic azo dyes by efficient sorbent: Zn/Cu layered double hydroxide", *Applied Organometallic Chemistry 37*, Pages e7072, 2023, **Impact factor 3.9.**

Biography

D.KUMAR

Department of Applied Chemistry

Dr. Kumar is working as Professor in the Department of Applied Chemistry, Delhi Technological University, Delhi w.e.f. 05/03/2010. He has worked as Head of the Department of Biotechnology, and Department of Applied Chemistry at Delhi Technological University, Delhi. He has received several fellowships and awards including UGC Research Award. Prof. D Kumar has visited countries namely the United Kingdom, Belgium, Malaysia and Japan for Research & Development activities. He has been awarded national/international projects including the International Project, viz, India–Japan Collaborative Research Project twice under DST-JSPS bilateral programme. He has guided 18 Ph.Ds, 89 M.E./M.Tech/M.Sc projects, published 04 chapters/books and over 130 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.D 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.

Award Summary & Publication Details

Citation Awards	
Yearly Citation Award) Early Research Impact and Influence Award)	
Category Name	**No of Publications**
Commendable Research Award	03

1. Paneru S. and **Kumar D.**, "Ag-doped-CuO nanoparticles supported polyaniline (PANI) based novel electrochemical sensor for sensitive detection of paraoxon-ethyl in three real samples", *Sensors and Actuators B: Chemical 379*, Page 133270, 2023, **Impact Factor 8.4**

2. Paneru S. and **Kumar D.**, "A novel electrochemical biosensor based on polyaniline-embedded copper oxide nanoparticles for high-sensitive paraoxon-ethyl (PE) detection", *Applied Biochemistry and Biotechnology 195*, 4485-4502, 2023, **Impact factor 3**

3. Paneru S., Sweety and **Kumar D.**,"CuO@PEDOT:PSS grafted paper-based electrochemical biosensor for paraoxon-ethyl detection". *Journal of Applied Electrochemistry 53*, 10 Jan, 2023, **Impact factor 2.9**

Biography

DEENAN SANTHIYA

Department of Applied Chemistry

Deenan Santhiya is an Assistant professor at the Discipline of Applied Science, Department of Applied Chemistry, Delhi Technological University (formerly Delhi College of Engineering), Delhi, India. She received her Master's and Doctorate degree 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 successfully completed a DST project entitled "Topical delivery of therapeutic loaded bioglass assembly for bone regeneration" (2019-2022). Also Mentor for the DST WOS B Kiran Division project entitled "Fabrication of collagen-bioactive glass corona through oral delivery for bone regeneration." She has published reputed research articles affiliated with Delhi Technological University. Her research interests are in the field of nanotechnology, gene delivery applications and microbial remediation of nano/micro plastics.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. Dey N., **Santhiya D.** and Das A.(2023) 'One-Pot Synthesis of Doxorubicin-Bioactive Glass-Ceramic Hybrid Nanoparticles through a Bio-Inspired Route for Anti-Cancer Therapy' *ChemistrySelect 8*(5), e202203664 **Impact Factor 2.307**.

Biography

INDU RANI

Department of Applied Chemistry

I am working as a research scholar in the Department of Applied Chemistry under the supervision of Prof. S.G. Warkar and Prof. Anil Kumar. I am a CSIR-SRF fellow. I have published three research articles till now.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	02

1. **Rani I.**, Warkar S.G., Kumar A., 2023 "Removal of Cationic Crystal Dye using Zeolite Embedded Carboxymethyl Tamarind Kernel Gum based Hydrogel Adsorbents", *Chemistryselect 8*, Pages 1 of 9,, **Impact Factor 2.1.**
2. **Rani I.**, Warkar S.G., Kumar A., 2023 "Nano ZnO embedded poly (ethylene glycol) diacrylate cross-linked carboxymethyl tamarind kernel gum (CMTKG)/poly (sodium acrylate) composite hydrogels for oral delivery of ciprofloxacin drug and their antibacterial properties", *Materials today communications 35*, Page 105635, **Impact Factor 3.8.**

Biography

JIGYASA PATHAK

Department of Applied Chemistry

Jigyasa Pathak received her B.Sc. (Hons) in Chemistry from Daulat Ram College, University of Delhi and Masters degree in Chemistry from Department of Chemistry, Jamia Millia Islamia. She is currently pursuing her Ph.D under the supervision of Dr. Poonam Singh at Department of Applied Chemistry, Delhi Technological University. The primary focus of her Ph.D research work lies on the synthesis of inorganic layered solids and their composites, along with their utility in environmental applications.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. Singh P., **Pathak J.**, 2023, "Adsorptive Removal of Congo Red Using Organically Modified Zinc–Copper–Nickel Ternary Metal Hydroxide: Kinetics, Isotherms and Adsorption Studies", *Journal of Polymers and the Environment 31*, Pages 327-344, **Impact Factor 5.3.**

Biography

KAJAL

Department of Applied Chemistry

Kajal has completed her graduation from Chaudhary Charan Singh University, Meerut India and post-graduation from Delhi Technological University (DTU), India. She is presently pursuing her Ph.D. from IIT DELHI under the supervision of Prof. Sampa Saha and Prof. Hari Prasad P. Her research interest includes the synthesis of biodegradable polymers.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Kajal**, Kumar R., Meena* M. P. ,Warkar* S. G., 2023, Development and characterization of pH-responsive CMTKG/PAM/PEG hydrogel for oral administration of etophylline, *Colloid and Polymer Science*, Vol. 301, pp. 1313-1323. *https://doi.org/10.1007/s00396-023-05152-8.*

Biography

MANISH JAIN

Department of Applied Chemistry

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 13 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 18 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.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. Iqbal J., Tyagi A., **Jain M.**, 2023, "Artificial neural network based modeling of liquid membranes for separation of dysprosium" *Journal of Rare Earths 41*, 440-445,, **Impact Factor 4.9**

Biography

MEENAKSHI TANWAR

Department of Applied Chemistry

Meenakshi Tanwar received her Bachelor of Pharmacy from the Kurukshetra University, Kurukshetra; Post Graduate Regulatory Affairs Diploma from Jamia Hamdard University, Delhi and her MSc.in Chemistry from Jamia Hamdard University, Delhi. After receiving the prestigious DTU Fellowship, she started her Ph.D. journey in January 2020 under the supervision of Prof. Archna Rani and Prof. Rajinder K. Gupta at the Department of Applied Chemistry, DTU. Her research focuses on the synthesis and applications of natural gum-based hydrogels.

Award Summary and Publication details

Category Name	No of Publications
Commendable Research Award	01

1. **Tanwar M.**, Rani A. and Gupta R. K., 2023, "Synthesis and Characterization of Carboxymethylated Locust Bean Gum-co-poly(SA)-cl-poly(MBA) pH Responsive Hydrogel for Controlled Drug Delivery of Metformin Hydrochloride", *ChemistrySelect 8*, e202302525 , **Impact Factor 2.1.**

Biography

PALAK GARG

Department of Applied Chemistry

She has completed her M.tech Polymer Technology from Delhi Technological University (Gold Medalist) and M.Sc. Polymer Science from CIPET Ahmedabad. B.Sc. Polymer Science from Delhi University and cleared GATE 2017.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. Pandey C. M., **Garg P.**, Thakur D., Verma S., Jalil O., Kumar D., 2023, "Biosynthesized rGO@ZnO-based ultrasensitive electrochemical immunosensor for bovine serum albumin detection", *Journal of Applied Electrochemistry 53*, Pages 1449-1459,, **Impact Factor 2.9.**

Biography

POOJA SINGH

Department of Applied Chemistry

Pooja Singh graduated from Shyam Lal College, University of Delhi, with a Bachelor's degree in Chemistry (Hons). She further pursued her academic journey at Sharda University, India, where she earned a Master's degree in Chemistry with distinction. Presently, she is pursuing her Ph.D. in Applied Chemistry at Delhi Technological University under the guidance of Dr. Raminder Kaur. Pooja's research revolves around synthesizing and characterizing sustainable non-isocyanate polyurethane materials derived from renewable sources

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Singh P.**, Kaur R., 2023, "One pot synthesis of bio-based porous isocyanate-free polyurethane materials" *Materials Letters 331*, Page 133433, **Impact Factor 3.**

Biography

PRIYANKA MEENA

Department of Applied Chemistry

Priyanka Meena has completed her graduation from Ramjas college, University of Delhi, Delhi, India and post-graduation from Indian Institute of Technology Roorkee (IIT Roorkee), Roorkee India. She is presently pursuing her Ph.D. under the supervision of Prof. Sudhir Warkar and Dr. Poonam Singh. Her research interest includes the synthesis of biopolymer-based hydrogels for drug delivery application.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Meena P.**, Singh P., Warkar S. G., 2023, 'Development and assessment of carboxymethyl tamarind kernel gum-based pH-responsive hydrogel for release of diclofenac sodium.' *European Polymer Journal*, 197, 112340, **Impact Factor 6** https://doi.org/10.1016/j.eurpolymj.2023.112340.

Biography

RAMINDER KAUR

Department of Applied Chemistry

Dr. Raminder Kaur is Assistant 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, Conducting Polymers, Pollution Abatement Technologies. She has published over 40 research papers in international journals, one book chapter and about 75 papers in national and international conferences. She has worked/presently working 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 and 2022. 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.

Award Summary and Publication details

Category Name	No of Publications
Commendable Research Award	01

1. **Kaur R.**, Singh P., 2023, "Sustainable Xylose-Based Non-Isocyanate Polyurethane Foams with Remarkable Fire-Retardant Properties", *Journal of Polymers and the Environment 31*, 243 to 253, **Impact Factor 5.3.**

Biography

RITIKA KUBBA

Department of Applied Chemistry

Ritika Kubba, holds a Ph.D. degree in the area of Porphyrin Chemistry from the Department of Applied Chemistry, Delhi Technological University, Delhi, India. She has done her graduation and post-graduation in Chemistry from Hindu College, University of Delhi and Miranda House, University of Delhi respectively. She has qualified GATE 2018 in Chemical Sciences and joined Ph.D. in DTU in the year 2018, under the supervision of Prof. Anil Kumar. So far, she has published seven research papers and two book chapters in reputed international journals and has attended several national and international conferences. She is currently working as Assistant Professor (guest faculty) at Department of Applied Chemistry, Delhi Technological University.

Award Summary and Publication details

Category Name	No of Publications
Commendable Research Award	01

1. **Kubba R.,** Yadav O., Singh M. K., Jyoti, Kumar A. , 2023, "Förster resonance energy transfer (FRET) between CdSe quantum dots and ABA phosphorus(V) corroles" *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy journal 291*, Page 122345, **Impact Factor 4.4.**

Biography

R K GUPTA

Department of Applied Chemistry

Prof. Rajinder K. Gupta is working presently at Delhi Technological University, Department of Applied Chemistry. He completed his higher education (BSc (Hons) Chem. & MSc Org. Chem.), including his first PhD degree from Delhi University in Organic Chemistry of Natural Products. Later he earned his second PhD in Microbiology /Biotechnology from University of Idaho, USA. He was awarded Alexander von Humboldt Fellowship to work at the Technical University, Berlin, Germany, where he worked on Phytochemicals and Natural Products. He worked with bioactive agents from marine organisms at the University of Oklahoma, USA, and on actinomycetes physiology and on their bio catalytic /biotransformation ability of various substrates of natural origin at the University of Idaho, USA. He holds 215 published research publications, 5 book chapters, one Scientific American Podcast, 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 13 students have finished their PhD degree, 11 students finished the MTech thesis in Biotechnology, 57 BTech Biotechnology thesis/projects, and 40 students finished MTech (Food Processing Technology) thesis. In 2020, at DTU, one student from Ethiopia completed his PhD degree (jointly), worked on Phyto/Herbal Drugs, and two students completed their M. Tech in polymer Technology, worked on hydrogels of natural polymers. From 2018-2022, 20 students have completed their BTech projects on the polymer of insect origin, nanomaterials and biosensor. Currently, five students are jointly doing their PhD, and working on wound healing and hydrogels in drug delivery and on Nutraceuticals. Five MSc (Chemistry) students completed their project in 2022, and five are

currently doing their one-year project 2023-24. He is a member of several national & international professional /academic bodies. He had offered consultancy to the Delhi Government to set up an ultramodern food quality testing facility (Microbiology, Mycotoxins, Metals, & Pesticide Residues etc.,) in Delhi, NABL & ISO certified with a total investment of Rs. 5.5 crores. He had established MTech (Food Processing Technology) for the students of GGSIP University, 80 students passed that course and employed in the food industry and academia in India & abroad. His current areas of research include bio-catalytic synthesis of polymers & nanomaterial's, new molecules/drug candidates from microorganisms and plants, and chemistry of nutraceuticals & functional foods. For research publications, please visit.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. Srivastava, A., Manu, & **Gupta, R. K.** (2023). Xanthan Gum and Lignin Grafted Chemically Crosslinked Hydrogels for Dye Removal: Synthesis, Characterization and Isotherms Studies. *Polymer Science, Series A*, *65*(6), 725-733. **Impact Factor 3.4.**

Biography

ROLI PURWAR

Department of Applied Chemistry

Roli Purwar is working as Professor in the discipline of Polymer Science and Chemical Technology, Department of Applied Chemistry, Delhi Technological University (DTU). In addition to academics, she holds the position of Associate Dean-Industrial Research and Development. She obtained her Bachelor of Engineering in Textile Technology from Sri Vaishnav Institute of Technology and Science, Indore in the year 2000. She did M.Tech in Fiber Science and Technology in the year 2001 and completed her PhD in Technical Textiles from IIT Delhi in the year 2006. She worked as Research Associate in the Department of Industrial Research and Development, IIT Delhi on projects funded by the Department of Biotechnology, Govt. of India and M/S Lockheed Matrin, USA. Here she developed several technologies which were transferred to Industries. She joined Delhi Technological University as Assistant Professor in the year 2010. Dr. Purwar has published 52 SCI/SCIE research papers in Indian and International peer reviewed journals. Two patents (1 Indian, 1 US patent) are in her Credit. She has guided 8 PhD, 11 M.Tech and 23 B.Tech thesis projects. Her current research area includes polymer processing, fiber technology, biopolymers, and wound dressing materials.

Award Summary and Publication Details

Citation Award	
Cumulative Citation Award) Silver)	
Yearly Citation Award) Early Research Impact and Influence Award(	
Category Name	**No of Publications**
Commendable Research Award	01

1. **Purwar R.,** Sachan R., 2023, "Soil burial degradation studies of photo-crosslinked PCL-PDMS-PCL triblock copolymer films", *Polymer Engineering and Science 63*, 4107-4117, **Impact Factor 2.57.**

Biography

SAKSHI VERMA

Department of Applied Chemistry

Sakshi Verma has recently been appointed to the Defence Research and Development Organisation (DRDO) where she holds the position of Scientist B. Currently undertaking her Ph.D. from the Department of Applied Chemistry at Delhi Technological University, New Delhi, her thesis is under evaluation. She has been working as a Senior Research Fellow and has qualified the CSIR NET JRF in Chemical Science. Her academic journey includes a Bachelor's degree in Physics, Chemistry, and Mathematics (PCM) from M.J.P. Rohilkhand University, Bareilly, U.P., India, followed by a Master's degree in Chemistry from the same university. She has a strong accomplished educational background and her research focuses on enzymatic electrochemical biosensors. She is committed to advanced research and contributing to cutting-edge developments in the field.

Award Summary & Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Verma S.,** Pandey C. M., Kumar D, 2023, "An Enzymatic Biosensor Based on MgO Nanoparticles Grafted on Reduced Graphene Oxide Nanoflakes for the Ultrasensitive Detection of Phenolic Compounds from Wastewater", *Chemistryselect 8*, Page e202302420, **Impact Factor 2.**

Biography

SAURAV KUMAR

Department of Applied Chemistry

Saurav Kumar hails from Uttar Pradesh, India. He completed his B.Sc. (H) Chemistry in 2016 at the University of Delhi. Following that, he pursued his M.Sc. in Organic Chemistry at CCS University in 2018. In the same year, he was awarded with the CSIR-NET JRF. In 2018, Saurav embarked on his Ph.D. journey at Delhi Technological University under the guidance of Prof. Anil Kumar, focusing on organic synthesis

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. Agasti N., Singh G., **Kumar S.,** Kumar A., 2023, "Base-Mediated N-Acetylation of Anilines/Amines: Nitriles as a Surrogate of the Acetyl Group", *ChemistrySelect 8*, e202204679 (1 of 8), **Impact Factor 2.307.**

Biography

SHIKHA RANA

Department of Applied Chemistry

The applicant completed her schooling from St. Xavier's Public School, Delhi. She then pursued her Bachelor's and Master's degree in Chemistry from University of Delhi. She has also completed her Bachelor of Education (B. Ed). She joined DTU in the year 2017 as full-time research scholar. She started her Ph.D. journey in July 2017 under the supervision of Prof. (Dr.) Anil Kumar at the Department of Applied Chemistry, DTU. Her research work revolves around the synthesis, structural characterization and DFT calculations of meta-benziporphodimethenes and their metal complexes. During her Ph.D. she has received the Commendable Research Excellence Award, from Delhi Technological University. In 2019, she joined the Indian Patent office as Examiner of Patents and Designs (Group-A, Gazetted) in the office of Controller General of Patents, Designs and Trade Marks under the Ministry of Commerce and Industry (Department for Promotion of Industry and Internal Trade).

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. Sharma R. K. , Fridman N., **Rana S.** and Kumar A., 2023, "Structural characterization and bioimaging of Zn2+ using meta-benziporphodimethene analogue", *Luminescence Volume 38*, Issue 7, 1268-1274, **Impact Factor 2.9.**

Biography

SUDHIR G. WARKAR

Department of Applied Chemistry

Sudhir G. Warkar is Professor in the Department of Applied Chemistry, Delhi Technological University (formerly Delhi College of Engineering), Delhi. He received his Doctorate Degree in Chemistry from Delhi Technological University and Master's Degree in Chemistry from Postgraduate Department of Chemistry, Nagpur University. He has over 29 years of teaching experience at UG and PG levels. His areas of interest are biopolymer-based superabsorbent hydrogels and their applications in the fields of agriculture, water enrichment, metal ion sensing and drug delivery and biodegradable polymers. He has published 45 research papers in SCI Journals. He has to his credit 20 Conference proceedings in International Conferences. Dr. Warkar has also delivered an Online Guest Lecture for Global Classroom Session in the University of Malaysia on "Recent Advances in Polymers". He has also delivered a Scientific talk in an Online Seminar on the Scientific Academic Institute of India, as a Special Speaker organized by DDE Science Branch, Directorate of Education, GNCT of Delhi. He is a Life member of Indian Society of Technical Education, Association of Carbohydrate Chemists and Technocrats (India) and Indian Society of Analytical Scientists - Delhi Chapter. He is an Editorial Board Member of Indian Journal of Chemical Technology published by CSIR NISCAIR. He is also the Reviewer of many journals of international repute. Dr. Warkar has handled various responsibilities in DTU as Head of Department of Applied Chemistry, Chairman Board of Studies, Member Academic Council, Associate Dean (Student Welfare), Associate Dean (Continuing Education), Chairman Department Research Committee, Chairman Board of Studies, Dy. Coordinator Admission B.Tech. Evening etc.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	02

1. Malik R., **Warkar S. G.**, Saxena R., 2023, 'Carboxy-methyl tamarind kernel gum based bio-hydrogel for sustainable agronomy', *Materials Today Communications,* 35 (2023) 105473 (31 January 2023)**, Impact Factor 3.383.**

2. Juikar S. K., **Warkar S. G.,** April 2023 , 'Biopolymers for packaging applications: An overview, Packaging Technology and Science-An International Journa' *Packaging Technology and Science*, Volume 36 (4) pages 229-251 (April 2023), **Impact Factor 2.6.**

Biography

SWEETY

Department of Applied Chemistry

Sweety, Department of Applied Chemistry, received her M.Sc. degree from Maharshi Dayanand University, Rohtak, Haryana, India. She is working on her doctoral degree under the guidance of Prof. D Kumar at the Department of Applied Chemistry, Delhi Technological University, Delhi, India. Her research interest includes the development of immunosensors based on 2D nanomaterials.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Sweety**, Kumar D., 2023, "Electrochemical immunosensor based on titanium dioxide grafted MXene for EpCAM antigen detection", *Journal of Colloid and Interface Science* 652, 549-556, **Impact Factor 9.9.**

Biography

TUSHAR

Department of Applied Chemistry

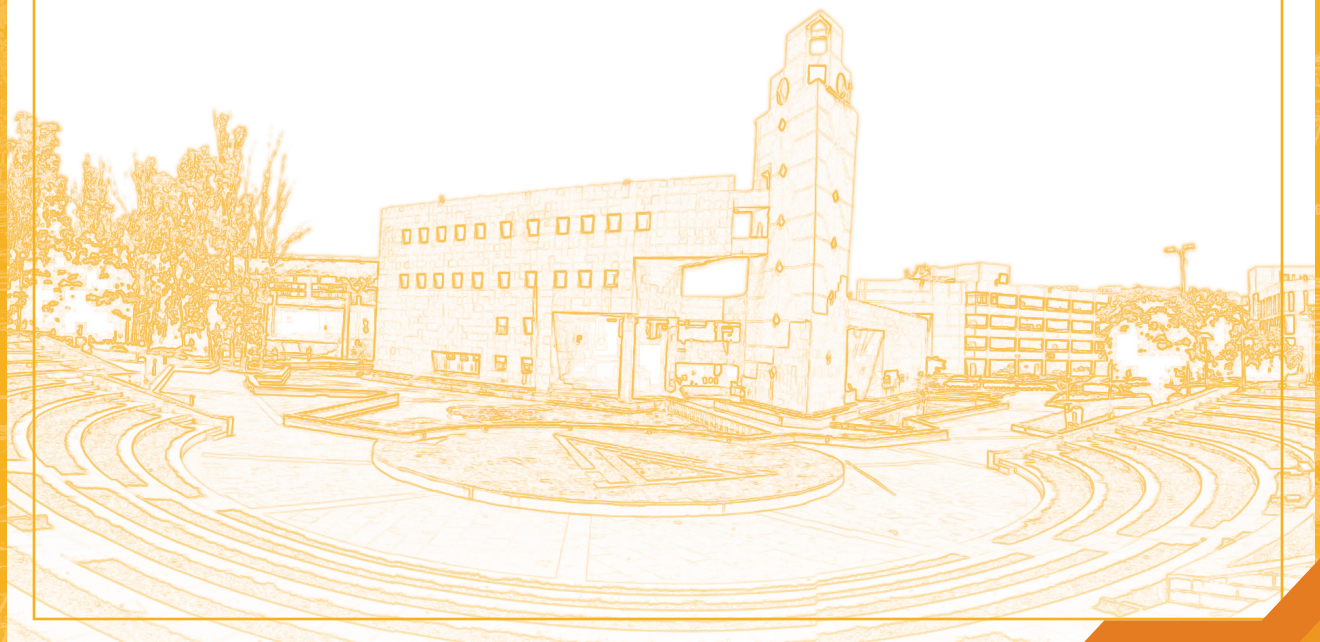
Tushar has completed his graduation from Swami Shraddhanand college, University of Delhi, Delhi, India and post-graduation from Delhi Technological University, Delhi, India. His research interest includes the synthesis of biopolymer-based hydrogels for drug delivery application.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Tushar,** Saraswat Y., Meena P., Warkar S.G., 2023, "Synthesis and characterization of novel xanthan gum-based pH-sensitive hydrogel for metformin hydrochloride release", *Colloid Polymer Science*, Vol. 301, pp. 1147-1158, **Impact Factor 2.4**.

Department of
Applied Mathematics



Biography

ADITYA KAUSHIK

Department of Applied Mathematics

Aditya Kaushik has been working as a Professor in the Department of Applied Mathematics at Delhi Technological University, Delhi. He obtained his PhD degree from Kurukshetra University, Kurukshetra. Before joining Delhi Technological University, he worked at Panjab University, Chandigarh, and Kurukshetra University, Kurukshetra. Besides, he also worked at leading R&D institutes like Institut National De Recherche En Informatique Et En Automatique (France), Zentrum für Technomathematik (Germany) and the Austrian Academy of Sciences (Austria). In addition, he visited the Massachusetts Institute of Technology (MIT), Brown University, and RAND Corporation in the United States of America (USA), among others.

His research interest includes the development of finite difference methods and finite element methods for differential equations. He organised many international and national conferences and acquired academic/research funding from NBHM-DAE, INSA, DST and UGC. He received Mathematical Research Impact Centric Support from the Science and Engineering Research Board, Department of Science and Technology, Government of India, up to 2025. He is on the editorial and advisory board of international journals of repute and a life member of many professional and learned societies.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	03

1. **Kaushik A.**, Choudhary M.,2023, "A higher-order defect correction method over an adaptive Bakhvalov-Shishkin mesh for advection-diffusion equations", *Iranian Journal of Science and Technology Transactions* A: Science 47, 1221-1232, **Impact Factor 1.7**

2. Chaudhary H., **Kaushik A.**, Kohli A., 2023, 'Cosmological test of sigma/theta as a function of scale factor in f(R,T) framework', *New Astronomy 103, 102044,* **Impact Factor 2**

3. Sharma N., **Kaushik A.**,2023, "A uniformly convergent difference method for singularly perturbed parabolic partial differential equations with large delay and integral boundary conditions", *Journal of Applied Mathematics and Computing 69, 1071-1093*, **Impact Factor 2.2**

Biography

ANUMA GARG

Department of Applied Mathematics

Ms. Anuma Garg is currently a research scholar under the guidance of Dr. Satyabrata Adhikari in the Department of Applied Mathematics, Delhi Technological University, Delhi. She has completed her B.Sc. (Hons.) Mathematics from Indraprastha College for Women, Delhi University and M.Sc. Applied Mathematics from South Asian University, Delhi. Her research area is quantum information theory.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Garg A.**, Adhikari S.,2023, "Detection of the genuine non-locality of any three-qubit state", *Annals of Physics 455*, 169400, **Impact Factor 3.**

Biography

DHIRENDRA KUMAR

Department of Applied Mathematics

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 received M. Tech. in Computer Science and Technology from Jawaharlal Nehru University in 2015. He has earned a Ph.D. degree from Jawaharlal Nehru University, New Delhi in the year 2021. His research interests include medical image segmentation, signal processing, pattern recognition, and image classification.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	03

1. Lohit H. and **Kumar D.**,2023, "Modified total Bregman divergence driven picture fuzzy clustering with local information for brain MRI image segmentation", *Applied Soft Computing 144*, 110460, **Impact Factor 8.7.**
2. Khatri I., **Kumar D.**, and Gupta A.,2023, 'A noise robust kernel fuzzy clustering based on picture fuzzy sets and KL divergence measure for MRI image segmentation' , *Applied Intelligence* 53, 16487–16518, **Impact Factor 5.3.**
3. **Kumar D.,** Solanki R.,2023, 'Probabilistic intuitionistic fuzzy c-means algorithm with spatial constraint for human brain MRI segmentation' , *Multimedia Tools and Applications* 82, 33663–33692, **Impact Factor 3.6.**

Biography

GOONJAN JAIN

Department of Applied Mathematics

Goonjan Jain joined the Department of Applied Mathematics of Delhi Technological University (DTU) in 2017 as Assistant Professor. She has ~seven 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 MTech 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 Natural Language Engineering, ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Expert Systems with Applications (ESWA) 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).

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	02

1. **Jain G.**, Punetha N, 2023, "Bayesian Game Model based Unsupervised Sentiment Analysis of product reviews", *Expert Systems with Applications 214*, 119128, **Impact Factor 8.5.**
2. **Jain G.**, Punetha N, 2023, **"**Aspect and orientation-based sentiment analysis of customer feedback using mathematical optimization models", *Knowledge and Information Systems* 45078, 2731-2760, 2023, **Impact Factor 2.7.**

Biography

KARTIKAY KHARI

Department of Applied Mathematics

Kartikay joined his PhD program in July 2017 in Department of Applied Mathematics of Delhi Technological University, Delhi under the supervision of Dr. Vivek Kumar Aggarwal. He has worked in the area of numerical methods for singularly perturbed differential and delay differential equations. He has already published several research papers in the joint authorship with his research supervisor Dr. Vivek Kumar Aggarwal. Also, He has presented his research work at several national/international conferences.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Khari K.**, Kumar V., 2023, "An iterative analytic approximation for a class of nonlinear singularly perturbed parabolic partial differential equations", *Soft Computing* 27, 16279–16291, **Impact Factor 4.1.**

Biography

MONIKA CHOUDHARY

Department of Applied Mathematic

Monika Choudhary is a research scholar in the Department of Applied Mathematics at DelhiTechnological University. She is pursuing a PhD in the field of Numerical Analysis under the supervision of Prof. Aditya Kaushik. She has published five research papers in reputed international journals.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Choudhary M.**, Kaushik A., 2023, "A uniformly convergent defect correction method for parabolic singular perturbation problems with a large delay", *Journal of Applied Mathematics and Computing 69,* 1377-1401, **Impact Factor 2.2.**

Biography

NEHA PUNETHA

Department of Applied Mathematics

Neha Punetha completed her Ph.D. under the guidance of Dr. Goonjan Jain from the Department of Applied Mathematics, Delhi Technological University (2020-24). She is currently working as Assistant Professor in the Department of Information Technology, JIMS, Rohini. She received her M.Sc. degree with a major in Mathematics and minor in Computer Science from G.B Pant University of Agriculture and Technology (2017-19). She completed B.Sc. from D.S.B Campus, K.U (2014-17). Her research interests include Natural Language Processing, Artificial Intelligence, Game Theory, and Optimization Techniques. She has published many research papers in reputed international journals like Expert Systems with Applications, Cognitive Computation, Applied Intelligence, and proceedings of international conferences.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	02

1. **Punetha N.**, Jain G., 2023, Unsupervised sentiment analysis of Hindi reviews using MCDM and game model optimization techniques, *Sadhana* 48, 45304, **Impact Factor 1.6.**

2. **Punetha N.**, Jain G., 2023, 'Game theory and MCDM-based unsupervised sentiment analysis of restaurant reviews', *Applied Intelligence* 53, 20152–20173, **Impact Factor 5.3.**

Biography

NILAM

Department of Applied Mathematics

Nilam is faculty of the Department of Applied Mathematics of Delhi Technological University since Feb 2011. She has a doctorate from I.I.T. Roorkee. Her research interest is Mathematical modeling and simulation, Differential Equations, Dynamics of Infectious diseases, Control theory in Diabetes. She has vast experience of more than 18 years in teaching and research.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	02

1. **Nilam**, Sharma A., 2023, "Computer-controlled diabetes disease diagnosis technique based on fuzzy inference structure for insulin-dependent patients", *Applied Intelligence* 53, 1945-1958, **Impact Factor 5.3.**
2. **Nilam**,2023, "Dynamics of a nonlinear epidemic transmission model incorporating a class of hospitalized individuals: a qualitative analysis and simulation", *Journal of Physics A: Mathematical and Theoretical* 56 (41), 5601, **Impact Factor 2.1.**

Biography

PARUL CHAUHAN

Department of Applied Mathematics

Parul Chauhan is a Ph.D. research fellow at the Department of Applied Mathematics, Delhi Technological University, New Delhi, India. She majored in Mathematics in her Master's degree at the University of Delhi, India. Her focus of research is Fuzzy Linguistic Mathematics & Optimisation.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Chauhan P.**, Gupta A., Malhotra T.,2023, "A novel cloud model based on multiplicative unbalanced linguistic term set", *The Journal of Supercomputing 79,* 16378–16408, **Impact Factor 3.3.**

Biography

RADHIKA KAVRA

Department of Applied Mathematics

Ms. Radhika Kavra is currently pursuing Ph.D. from Department of Applied Mathematics, Delhi Technological University, New Delhi, India. She has done M.Sc. Mathematics from IIT Roorkee and B.Sc. (Hons) Mathematics from Delhi University. Her research area is Graph and Optimization. She has already published four research papers in the well-reputed international journals. She has been consistently working towards her academic goals.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Kavra R.**, Gupta A., Kansal S., 2023, "Optimization of energy and delay on interval data based graph model of wireless sensor networks", *Wireless Networks* 29, 2293-2311, **Impact Factor 3.**

Biography

SATYABRATA ADHIKARI

Department of Applied Mathematics

I am working as Assistant Professor (under UGC-Faculty Recharge Programme) in the Department of Applied Mathematics, DTU. My research interest is in Quantum Information Theory. I have obtained my Ph.d degree from Bengal Engineering and Science University, Shibpur (now it is renamed as IIEST) . After Ph.D, I availed post doctoral fellowship from S. N. Bose National Centre for Basic Sciences, Kolkata, India; Korean Advanced Institute of Science and Technology, South Korea and Institute of Physics, Bhubaneswar, India.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. Garg A., **Adhikari S.**, 2023, "Strength of the nonlocality of two-qubit entangled state and its applications", *Physica Scripta* 98, 55101, **Impact Factor 2.9.**

Biography

SIMRAN KAUR

Department of Applied Mathematics

I joined the PhD program in 2018 at the department of Applied Mathematics of Delhi Technological University. I work in the area of General Relativity and Cosmology. I have published five research articles in my tenure of PhD with my supervisor Prof. Chandra Prakash Singh. I defended myself with a thesis titled 'A study on Cosmological Models in General Relativity and Modified Gravity theories' in March, 2023. I have also presented my research work in five International/National Conferences.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Kaur S.**, 2023, "Viscous Cosmology in Holographic Dark Energy with Granda-Oliverio's Cut-off", *Communications in Theoretical Physics* 75, 25401, **Impact Factor 3.1.**

Biography

SURYA GIRI

Department of Applied Mathematics

I, Surya Giri, am a PhD research scholar working in the Department of Applied Mathematics under the supervision of Prof. S. Sivaprasad Kumar since 2020. I completed my B.Sc. from Chaudhary Charan Singh University, Meerut, and my M.Sc. from Gurukula Kangri Vishwavidyalaya, Haridwar. I have published four papers in the reputed SCIE journals in the field of Complex Analysis.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Giri S.**, Kumar S. S, 2023, "Hermitian–Toeplitz determinants for certain univalent functions", *Analysis and Mathematical Physics* 13, 45310, **Impact Factor 1.7.**

Biography

TANYA MALHOTRA

Department of Applied Mathematics

Tanya Malhotra is a Data Scientist working at Genpact Pvt Ltd. Noida. She joined Delhi Technological University in July 2017 as a full-time research scholar and completed her Ph.D. in 2021 under the guidance of Professor Anjana Gupta in the Department of Applied Mathematics, Delhi Technological University, Delhi. Her area of interest is Optimization techniques and Computing with words and she has published six research papers to date in reputed international journals of IEEE Transaction and Springer. She has also attended and participated in several International/ National conferences and workshops.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Malhotra T.** and Gupta A.,2023, "Probabilistic multiplicative unbalanced linguistic term set and its application in matrix games", *International Journal of Machine Learning and Cybernetics* 14, 1253-1283, **Impact Factor 5.6.**

Biography

VINITA KHATRI

Department of Applied Mathematics

I am a research scholar dedicated to advancing knowledge in Applied Mathematics. With a passion for research in General Relativity and Cosmology, I have made significant contributions to the academic and scientific community. My current research interests are General Relativity and Cosmology, especially in understanding the recent acceleration of the Universe and dark energy. I have been working on Viscous cosmology and varying cosmological constant. With three years of experience in the field of research, I have published three papers in reputed SCIE journals with my supervisor (Prof. C.P. Singh). As an active participant in academic conferences, I have presented our research at three international conferences. Looking ahead, I am committed to pushing the boundaries of knowledge in the field of cosmology.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	02

1. **Khatri V.**, Singh C.P.,2023 Constraining the time-varying vacuum energy models in Brans-Dicke theory,*Astrophysics and Space Science* 368, 16, 2023, **Impact Factor 1.**

2. **Khatri V.**, Singh C.P.,2023, Brans–Dicke cosmology with cosmological term $ \Lambda (H) = c_0 + 3 \nu H^2$, *Physics of the Dark Universe* 42, 101300, 2023, **Impact Factor 5.5.**

Biography

VIVEK AGGARWAL

Department of Applied Mathematics

Vivek Kumar Aggarwal is an Assistant 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 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. He has published 40 research papers in national, international journals and conferences. He has guided 06 PhD students and currently, he is supervising 05 PhD students.

Award Summary and Publication Details

Category Name	No of Publications
Commendable Research Award	01

1. **Kumar V.**, Leugering G., 2023, "Convection dominated singularly perturbed problems on a metric graph", *Journal of Computational and Applied Mathematics* 425, 45317, **Impact Factor 2.4.**

Department of
Applied Physics

Biography

A.S. RAO

Department of Applied Physics

Currently, Prof. A.S. Rao is working as a Professor & Head of 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 20 students for Ph.D. and 4 students for M.Phil. and 6 students for M. Tech degrees. Currently he is guiding 11 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 215 research papers in Scopus Indexed SCI International Journals of repute and nearly 160 papers in national and international conferences. Prof. Rao received six 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 bio-photonic 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 45 and i-10 index is 116.

Award Summary and Publication Details

Citation Awards	
Yearly Citation Award) Early Research Impact and Influence Award)	
Category Name	**No .of Publications**
Commendable Research Award	03

1. Rohilla P., **Rao A.S.**,2023, "Energy transfer induced colour tunable photoluminescenc performance of thermally stable Sm^{3+}/Eu^{3+} co-doped Ba_3MoTiO_8 phosphors for white LED applications", *Journal of Materials Science: Materials in Electronics* 34, p1662 (1-19), **Impact Factor 2.8.**

2. Anu, Rao A.S. , 2023, 2023, "Luminescence and optical thermometry strategy based on emission spectra of $Li_2Ba_5W_3O_{15}:Pr^{3+}$ phosphors", *Optical Materials 145* , p114476, **Impact Factor 3.9.**

3. Maheshwari K., Rao A.S., 2023, "Down-shifting photoluminescent properties of Tb^{3+} doped phosphate glasses for intense green-emitting devices applications", *Optical Materials* 137, p113533, **Impact Factor 3.9.**

Biography

ANCHALI JAIN

Department of Applied Physics

Ms. Anchali Jain is research scholar in the department of Applied Physics, DTU, working under the supervision of Dr. Amrish K. Panwar.

Award Summary and Publication Details

Category Name	No. of Publications
No. of Publications	01

1. **Anchali Jain**, Amrish K Panwar, Pawan K Tyagi, "Effect of Cr doping on $Li_2ZnTi_3O_8$ as alternative anode material to enhance electrochemical properties of lithium-ion batteries", 128 (4), 302, 2022. **Impact Factor: 2.983.**

Biography

ANEESHA

Department of Applied Physics

Ms. Aneesha is a highly accomplished individual who completed her M.Sc. in Physics from Maharshi Dayanand University, Rohtak in 2017. Her academic journey has been marked by excellence, and she has made significant contributions to the field of laser spectroscopy.On January 10, 2020, She joined the Laser Spectroscopy Laboratory at Delhi Technological University (DTU), Delhi. Currently, she serves as a Research Scholar at the LSL Lab within the Department of Applied Physics at DTU. Her research focus revolves around Quantum Dots and 2-D nanostructures, with a specific emphasis on the study and investigation of Transition Metal Dichalcogenides (TMDs) and their diverse applications.Her dedication to work is evident in her impressive publication record. In the year 2023 alone, she authored two research papers, one as the first author and the other as the second author. These publications reflect her commitment to advancing knowledge in her chosen field. Furthermore, She has been recognized for her innovative work through the granting of a patent titled "PROBE FOR THE DETECTION Of FERRIC IRON IN AQUEOUS ENVIRONMENTS AND METHOD THEREOf." This significant achievement was realized in collaboration with her supervisor, Dr. Mohan Singh Mehata.Her active participation in various national and international conferences underscores her commitment to staying at the forefront of developments in her field. Her contributions to the scientific community, both in terms of research and intellectual property, showcase her as a valuable asset in the realm of applied physics.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Ohta N., **Aneesha**, Mehata M. S., 2023, 'In situ synthesis of WS_2 QDs for sensing of H_2O_2: Quenching and recovery of absorption and photoluminescence;, *Journal detail: Materials Today Communications* 34,105013 **, Impact Factor: 3.662.**

Biography

ANU

Department of Applied Physic

Ms. Anu received her B.Sc. and M.Sc. degrees in Physics from Kurukshetra University, Haryana, India, in 2015 and 2017, respectively. She is currently pursuing Ph.D. in the field of glass and phosphor materials at Delhi Technological University, Delhi, India. Her research interests include photonic, white LEDs, laser and optoelectronic device applications of glass and phosphor materials.

Award Summary and Publication Details

Category Name	No .of Publications
No .of Publications	01

1. **Anu, N.** Deopa and A.S. Rao, "Structural and luminescence characteristics of thermally stable Dy^{3+} doped oxyfluoride strontium zinc borosilicate glasses for photonic device applications", Optics and Laser Technology, Vol 154, No. 108328 (1-15), 2022. **Impact Factor: 4.939.**

Biography

ASHOK

Department of Applied Physics

I am pursuing PhD at Department of Applied Physics, DTU under the able supervision of Prof Vinod Singh and Joint Supervision of Dr Rajendra S. Dhaka, IIT Delhi . The Topic of research is Physical properties of transition metal substituted or thovanadates.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Kumar, A**., Sharma, A., Sharma, M., Singh, V., Dhaka, A., & Dhaka, R. S. (2023). Structural, vibrational and electronic properties of Nb substituted orthovanadates $LaV_{1-x}Nb_xO_4$. *Journal of Alloys and Compounds*, *966*, 171506. **Impact Factor 5.8.**

Biography

BHARTI SINGH

Department of Applied Physics

Bharti Singh is currently working as an Assistant Professor in 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. 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 20 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 piezoelectric energy harvesting applications.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	03

1. Singh V., **Singh B.,** 2023 , "MoS2-PVDF/PDMS Based Flexible Hybrid Piezo-Triboelectric Nanogenerator for Harvesting Mechanical Energy", *Journal of Alloys and Compounds 941* , p168850, **Impact Factor 6.2.**

2. Rana S., **Singh B.,** 2023 , 'Polymer nanocomposite film based piezoelectric nanogenerator for biomechanical energy harvesting and motion monitoring', *Journal of Materials Science: Materials in Electronics* 34 , p1764, **Impact Factor 2.8.**

3. Komal, Singh M., **Singh B.,** 2023, 'One step hydrothermal synthesis of MoS2-SnO2 nanocomposite for resistive switching memory application', *Journal of Materials Science: Materials in Electronics 34* , p1351, **Impact Factor 2.8.**

Biography

BHAVYA KUMAR

Department of Applied Physics

Mr. Bhavya Kumar received his B.Sc. degree in Physics (Hons.) from Delhi University, Delhi, India, in 2013 and his M.Sc. degree in Physics from Panjab University, Chandigarh, India, in 2017. He is currently pursuing a Ph.D. degree with the Department of Applied Physics at Delhi Technological University (Formerly Delhi College of Engineering), New Delhi, India. He has authored or co-authored 21 papers in different reputed international journals and conferences. He is currently investigating new channel materials that can further improve the performance of nanoscale devices and the effects of various structural properties on FinFETs overall performance. His research interests include modeling and simulation study of nanoscale semiconductor devices and their ULSI switching applications. He has been awarded the Commendable Research Award for excellence in research in 2021 and 2022 by Delhi Technological University. He is a student member of IEEE.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Kumar B.**, Sharma M., Chaujar R., 2023, "Junctionless-accumulation-mode stacked gate GAA FinFET with dual-k spacer for reliable RFIC design", *Microelectronics Journal 139*, p105910, **Impact Factor 2.2.**
2. **Kumar B.**, Sharma M., Chaujar R., 2023, 'Gate electrode work function engineered JAM-GS-GAA FinFET for analog/RF applications: Performance estimation and optimization', *Microelectronics Journal* 135, p105766, **Impact Factor 2.2.**

Biography

HIMANK SAGAR

Department of Applied Physics

I Himank Sagar is a PHD full time student in Applied Physics department in DTU. My current work is on Laser-Plasma Interaction with varying parameters using PIC codes and Numerical Modelling. I have also worked on Dusty Plasma with varying ion and electron densities and im also currently working on rippled density plasmas with amplitude modulation.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Gupta R., **Sagar H.**, Sharma S. C. 2023, "Dust density effects on electron density gradient driven lower hybrid waves in magnetized plasma", *Contributions to Plasma Physics 63*(8), pe202300047, **Impact Factor 1.6.**

Biography

KAILASH CHANDRA

Department of Applied Physics

My name is Dr. Kailash Chandra, working in Dept. of Physics, Motilal Nehru College (University of Delhi) as an assistant Professor of physics. I have eight years of teaching experience and taught many courses in physics at undergraduate as well as postgraduate levels. I received my Ph.D. degree in the year 2023 from the reputed institute Delhi Technology University in the field of material science. Before joining Delhi University, I did my M.Tech. (Solid State Materials) from the Department of Physics (IIT Delhi). Also cleared lectureship examination CSIR NET/JRF-2012 with AIR-153. I have published five research papers with good impact factor in the reputed Journal of Physics in the field of material science. Also got the research excellence award in the academic year of 2022 from Delhi Technology University.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Kulriya P. K. & Sharma S. K., **Chandra K.** & Singh V., 2023 , "La^{3+} substitution effect on structural and magnetic properties of frustrated $Ho_2Ti_2O_7$ pyrochlore", *Journal of Alloys and Compounds 937*, p168311, **Impact Factor 6.37**

Biography

KARTIKA MAHESHWARI

Department of Applied Physics

Kartika Maheshwari is a research scholar in the Department of Applied Physics, at Delhi Technological University, New Delhi under the supervision Prof. A.S.Rao. She is a Professor in the Department of Applied Science and Humanities at ABES Engineering College Ghaziabad, UP, India. She received the Master's degree from CCS university, Meerut and Ph.D. in Applied Physics from Delhi Technological University (DTU), Delhi, India. She has 15 years of experience to guide UG engineering students. She has authored many research papers in reputed International Journals and Conferences . Her research interest area in material science.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. Pilania R., Prasad A., **Maheshwari K.**, Tayal Y., Rao A.S., 2023 , "Spectroscopic studies of Pr^{3+} doped red-emitting BaO–ZnO– Li_2O–P_2O_5 glasses for luminescent devices applications" , *Optical Materials* 140, p113910,2023, **Impact Factor 3.9.**
2. Prasad A., Pilania R., Mahamuda S., **Maheshwari K.**, Tayal Y., Rao A.S., 2023, "Thermally stable multi-color emitting Dy^{3+}/Eu^{3+} co-doped BaO–ZnO–Li_2O–P_2O_5 glasses for w-LEDs", *J Mater Sci: Materials in electronics* 34, p2059, **Impact Factor 2.8.**

Biography

M. JAYASIMHADRI

Department of Applied Physics

Jayasimhadri Mula is an Assistant Professor in the Department of Applied Physics, Delhi Technological University, Delhi, India. He has more than 18 years of teaching and research experience. He has received M.Sc. and Ph.D. from Sri Venkateswara University (SVU), Tirupati, Andhra Pradesh, India. He has worked as a Postdoctoral Research Associate for around four years (2006-2010) in the prestigious institutes (Pohang University of Science and Technology & Changwon National University) in South Korea and also visited twice (2012 & 2016) Changwon National University, South Korea as a Visiting Research Professor. He has received several awards and honors in recognition of his outstanding contribution in Physical Sciences. To name a few, Junior Scientist of the Year by National Environmental Science Academy, FCT Postdoctoral Fellowship from Portuguese Government, Brain Korea (BK21) Postdoctoral Fellowship from South Korea Government, Young Scientist in Physical Sciences by SERB-DST, Government of India, Outstanding Scientist Award by VIFRA, Bharat Vikas Award by ISR India and Commendable Research Award for Excellence in Research by DTU for the last consecutive Five years. Moreover, He has been placed in the list of world's top 2% scientists in the fields of Applied Physics and Materials, which was published by Stanford University in the years 2020, 2021, 2022 and 2023. He is a member/Associate member/Life Member of various International and National scientific societies. To mention a few, The American Ceramic Society, Vijnana Bharti (VIBHA), Indian Laser Association, The Optical Society of India, The Indian Science Congress Association, The Indian society of Technical Education, International Society of Research and Development, Luminescence Society of India, MRSI etc. Eight students have completed their Ph.D. Degrees under his supervision and also handled sponsored research projects worth of more than Fifty Lakhs. His research interest includes Optical/Fluorescent Spectroscopy and Development of Rare Earth doped Materials for Optoelectronic Applications/Luminescent Devices. He has published more than 140 research papers in Internationally reputed Scopus Indexed Journals and also presented more than 110 research papers work in several national and international conferences. His h-index as reported by Google Scholar is 43; i10-index: 95, and Citations are more than 5500.

Award Summary and Publication Details

Citation Awards	
Yearly Citation Award) Early Research Impact and Influence Award)	
Category Name	**No .of Publications**
Commendable Research Award	03

1. **M. Jayasimhadri**, Deepali, 2023, "Effect of sensitizer on the luminescence of thermally stable Eu^{3+}-activated metasilicate phosphor for solar cell applications", *Journal of Materials Science: Materials in Electronics 34*, p1999, **Impact Factor 2.8.**

2. **M. Jayasimhadri**, Muskan, Sharma P., Deepali, 2023, "Exploration of efficient photoluminescence properties of intense green emitting Er^{3+} activated $NaBi(MoO_4)_2$ phosphor for white LED applications" *„Journal of Materials Research 38* , p4655-4664, **Impact Factor 2.7.**

3. **M. Jayasimhadri, Deepali 2013, "** Structural and photoluminescence features of thermally stable red-emitting Pr^{3+}-doped sodium calcium metasilicate phosphor for w-LED applications", *Bulletin of Materials Science* vol.46, 230, 2023. **Impact Factor 1.8.**

Biography

MOHAN SINGH MEHATA

Department of Applied Physics

Dr. Mohan Singh Mehata Department of Applied Physics Dr. Mohan Singh Mehata received his Ph.D. from Kumaun University (1995-2002). He is a recipient of a research fellowship of Michigan Technological University, USA (2003), DST Young Scientist fellowship (2004), Postdoctoral Fellowships of Hokkaido University (2004 & 2005), UCOST-Young Scientist Award (2007), Japan Society for the Promotion of Science (JSPS, Japan) Postdoctoral Fellowship (2007-09), Research Associate of Carnegie Mellon University, USA (2009-10), Visiting Professor of Chinese Academy of Science (CAS, China, 2014 & 2015) and Visiting Professor of National Chiao Tung University, Taiwan (2019). He is a recipient of the research excellence award of DTU from the beginning (2018) to the present year. He is the author and co-author of more than 120 research papers and conference proceedings, including 10 as a single author and three in Nature Publishing Group (NPG). He has filed/published four patents and has a research collaboration with Japan, Russia, Taiwan, China, Germany and USA. He received more than two crore rupees for his research, which includes five major research projects of DST (2004-07), DAE-BRNS (2012-16), DST (2012- 17), DST-RFBR (2017-19) and SERB (2016-20). His current research interest is to develop and explore semiconductor/metal nanoparticles/quantum dots and 2D materials with a view to their applications as Sensors, photocatalysts, optoelectronic devices, OLEDs, QLEDs, etc.

Award Summary and Publication Details

Citation Award	
Cumulative Citation Award : Sliver	
Yearly Citation Award) Early Research Impact and Influence Award(	
Innovation Research Award	**02**
Category Name	**No .of Publications**
Commendable Research Award	09

1. V.S. Meena, **M.S. Mehata***, Thermally grown indium (In) thin-film for creating Ohmic contact and In-bumps for HgCdTe-based IR detectors. Applied Surface Sciences 596 (2022) 153501. **Impact Factor=7.392.**

2. S. Husain, N. Pandey, N. Fatma, S. Pant, **M.S. Mehata***, Spectral characteristics of 3,5- diaminobenzoic acid in pure and mixed solvents: Experimental and theoretical study, Journal of Molecular Liquid. **Impact Factor= 6.633.**

3. N. Fatma, S. Pant, **M. S. Mehata***, Reinvestigation on photoluminescence of 7- hydroxyflavone in aqueous medium: Proficient fluorescence enhancement. Journal of Photochemistry & Photobiology A: Chemistry 431 (2022) 114014. **Impact Factor= 5.141.**

4. D. Kumar, A.K. Singh, **M.S. Mehata***, Exploration of grown cobalt-doped zinc oxide nanoparticles and photodegradation of industrial dye. Materials Research Bulletin 150 (2022) 111795. **Impact Factor=5.60.**

5. V. Sharma, **M.S. Mehata***, A parallel investigation of un-doped and manganese iondoped zinc selenide quantum dots at cryogenic temperature and application as an optical temperature sensor. Materials Chemistry and Physics, 276 (2022) 125349. **Impact Factor=4.778.**

6. B. Bisht, P. Dey, A.K. Singh, S. Pant, **M.S. Mehata***, Spectroscopic Investigation on the Interaction of Direct Yellow-27 with Protein (BSA). Methods and Applications in Fluorescence 10 (2022) 044009**. Impact Factor = 3.849.**

7. P. Sharma, M.K. Singh, **M.S. Mehata***, Sunlight-driven MoS_2 nanosheets mediated degradation of dye (crystal violet) for wastewater treatment. Journal of Molecular Structure, 1249 (2022) 131651. **Impact Factor = 3.841.**

8. V. Sharma, **M. S. Mehata***, Photoluminescence turn-off based dual analytes (Hg^{2+} and Pb^{2+}) sensor in aqueous medium using 3-marcaptoproponic acid protected Mn^{2+} doped ZnSe quantum dots. Chemical Physics Letters 787 (2022) 13927. **Impact Factor=2.719.**

9. N. Pandey, N. Tiwari, S. Pant, **M.S. Mehata*,** Solvatochromism and estimation of ground and excited state dipole moments of 6-aminoquinoline. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 267 (2022) 12049. **Impact Factor = 4.831**.

Biography

MUKHTIYAR SINGH

Department of Applied Physics

Mukhtiyar Singh is working at the Department of Applied Physics, Delhi Technological University since March, 2017. He is working in interdisciplinary areas of condensed matter physics with broad research interest in first-principles based simulation of designing new materials and understanding their properties using state-of-the-art density functional theory (DFT). His current research focused on 2D materials for thermoelectric energy harvesting, Quantum materials and AI assisted novel material discovery. He has published more than 40 research papers in SCI/SCIE indexed international journals. He has also published more than 20 papers in various international conference proceedings. He is receiving Research Excellence Awards by DTU from last three consecutive years.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Singh M.**, Sangeeta, 2023, "Augmented thermoelectric performance of LiCaX (X = As, Sb) Half Heusler compounds via carrier concentration optimization" , *Journal of Physics and Chemistry of Solids* 174, 111182, **Impact Factor 4**

2. **Singh M.**, Kumar R., 2023, "Monoclinic to cubic structural transformation, local electronic structure, and luminescence properties of Eu-doped HfO_2" , *Applied Physics A: Materials Science & Processing* 129, 712, **Impact Factor 2.7**

Biography

NEHA BHATT

Department of Applied Physics

Neha Bhatt is a dedicated researcher with a strong academic background, having completed her B.Sc. at Kirori Mal College, University of Delhi, in 2021, and her M.Sc. at Delhi Technological University in 2023. Her exceptional academic achievements were recognized with the Vice Chancellor's Gold Medal at DTU in the same year. During her dissertation, conducted at the Laser and Spectroscopy Laboratory, she delved into sustainable green routes for synthesizing metal nanoparticles. Currently, joined as a Ph.D. scholar under the supervision of Dr. Mohan Singh Mehata, at Laser and Spectroscopy Laboratory, since January 2024, her research interests have evolved to encompass quantum dots, 2D nanostructures, and their applications in optoelectronics. Her scholarly journey reflects a commitment to advancing knowledge in the field of nanotechnology and optoelectronics, making her a promising and innovative researcher in the scientific community.

She published one journal-paper in journal Plasmonics during her Masters in DTU.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Bhatt N.**, Mehata M. S., 2023, "A Sustainable Approach to Develop Gold Nanoparticles with Kalanchoe fedtschenkoi and Their Interaction with Protein and Dye: Sensing and Catalytic Probe", *Plasmonics 18*, p845 - 858, **Impact Factor 3**

Biography

NITIN KUMAR PURI

Department of Applied Physics

Nitin Kumar Puri is currently working as Professor in the discipline of Engineering Physics, Department of Applied Physics, Delhi Technological University. He is associated with DTU from last 13.5 years and has teaching and research experience of more than fifteen years. He is also having the responsibility of Associate Dean (Outreach and Extension Activities, OEA) and Chairperson (NSS), DTU. He has his doctorate degree in Experimental Atomic Physics from Cyclotron Laboratory, Panjab University, Chandigarh. He has worked as an Engineer in R & D division in HongHua Company Ltd, China. He has been awarded various research grants of approximately Rupees One Crore from different funding agencies viz: SERB-DST, BRNS, UGC-DAE (Govt. of India). He has supervised about 37 M.Tech./6 M.Sc. students, 8 Ph.D. students and currently 4 B.Tech., 3 M.Sc., and 9 Ph.D. students are pursuing their research under his supervision. He has delivered many invited talks and has more than 115 research publications in peer-reviewed journals and conferences of national and international repute. He is an editorial member and reviewer of reputed journals such as Biosensors and Bioelectronics, International Journal of Hydrogen Energy etc. He has worked as Vice-Chairman and Chairman of working group-III for International Nuclear Security Education Network (INSEN) as one of Indian Representatives at International Atomic Energy Agency (IAEA), Vienna. His current research interests include accelerator physics, 2D-nanomaterials based devices for healthcare and environment applications, and energy-harvesting.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	03

1. Seabroke G. M., Aggarwal A., Mittal A. and **Puri N. K.** , 2023, "Diving deep into the milky way using anti-reflection coatings for astronomical CCDs", *Journal of Astrophysics and Astronomy 44*, p74, **Impact Factor 1.1**

2. Jain N. and **Puri N. K.,** 2023 ,Zinc oxide incorporated molybdenum diselenide nanosheets for chemiresistive detection of ethanol gas, *Journal of Alloys and Compounds* 955, p170178, **Impact Factor 6.2**

3. Singh A. K., Bhardwaj H., and Solanki P. R., Sarpal S. and **Puri N.K.**, 2023, "Graphene oxide-Mn_3O_4 nanocomposites for advanced electrochemical biosensor for fumonisin B1 detection", *Nanotechnology 34,* p465708, **Impact Factor 3.5**

Biography

PAWAN KUMAR TYAGI

Department of Applied Physics

Pawan Kumar Tyagi is currently an assistant professor at Delhi Technological University's Department of Applied Physics. He also held the position of Associate Professor at the Central University of Haryana from September 2018 to August 2020. After that, he worked for Plasmatech LLP in Mumbai for a year as a research scientist. Dr. Pawan Tyagi held positions as a Senior Postdoctoral Fellow in the Department of Electrical Engineering at Korea University in South Korea, the IPCMS in France, and the Institute of Physics in Bhubaneswar, India, before coming to DTU.

He graduated from Indian Institute of Technology Mumbai, Banaras Hindu University, and Allahabad University with a Ph.D., an M.Sc., and a B.Sc. His research activity is mainly focused towards the development of multifunctional applications of carbon nanomaterials such as in nanoelectronics and photovoltaic. He has published one patent, one invited review articles and 75 peer reviewed articles and 10 conference proceeding articles. At numerous national and international conferences, he has given lectures and chaired sessions. He is involved in five projects with a total budget of $1 million, with support from DBT, UGC-IUAC, and other organisations. 14 M.Tech. students and 5 PhD. students have been under his guidance.

Award Summary and Publication Details

Innovation Research Award	01
Category Name	**No .of Publications**
Commendable Research Award	01

1. **Tyagi P.K.**, Naima and Singh V., 2023, "Potential application of novel graphene/diamane interface in silicon-based heterojunction with intrinsic thin layer solar cell" ,*Computational Materials Science*, 226 (2023)112252 226 , p112252, **Impact Factor 3.3**

Biography

POOJA ROHILLA

Department of Applied Physics

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Rohilla, P.,** Prasad, A., & Srinivasa Rao, A. (2024). Structural and luminescence studies on thermally stable Bi^{3+}-activated Ba_3MoTiO_8 phosphors for near UV-pumped w-LED applications. *International Journal of Applied Ceramic Technology*, *21*(2), 1208-1219. **Impact Factor 2.1**

Biography

PRIYA

Department of Applied Physics

I, Priya, a research scholar of the Department of Applied Physics, DTU, pursuing my Ph.D. under the supervision of Prof. Vinod Singh. My area of research is 2D materials and their sensing application. Currently, I'm looking forward to synthesizing material in the same field by combining it with other dimensional materials to enhance the sensing properties.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Kumar S., Kumar M., **Priya, Kumar P.**, Singh V., 2023, "Utilization of Active Carbon Black With SnO_2/MoS_2 Nanocomposites for the Efficient Detection of NO_2 Molecules", *IEEE Sensors Journal 23,* p28626-28632, **Impact Factor 4.3**

Biography

PRIYANKA

Department of Applied Physics

Miss Priyanka is currently pursuing her Ph.D. degree in the Department of Applied Physics, at Delhi Technological University, Delhi, India. She is currently working on the "Transport & Optical Properties for Nanostructure under the influence of Rashba Spin Orbit Interaction". Her research interests include analytical and numerical simulation study of nanostructures properties.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	03

1. **Priyanka** , Sharma R., 2023, "Impurity-modulated physical and transport properties in a $In_xGa_{1-x}As$ double quantum wire", *Physica B: Condensed Matter 659*, p414845, **Impact Factor 2.8**
2. **Priyanka**, Sharma R., 2023, "Impact of impurity on the non-linear and linear optical properties of $In_xGa_{1-x}As$ quantum dot", *Solid State Communications* 366-367 , p115155, **Impact Factor 2.1**
3. **Priyanka** , Kumar M, Sharma R., 2023, "Effect of hydrostatic pressure and temperature on the ballistic conductance under the influence of Rashba spin-orbit coupling" ,*Physica B: Physics of Condensed Matter 648* , p414402, **Impact Factor 2.8**

Biography

RAHUL KUNDARA

Department of Applied Physics

Synthesis and Characterization of perovskite materials to fabricate efficient and low-cost perovskite solar cells. Study on theoretical design and optimization of lead-free perovskite solar cells to achieve maximum power conversion efficiency by using SCAPS-1D and wx-AMPS simulation software.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Kundara R.** and Baghel S., 2023,"Device modelling of lead free ($CH_3NH_3)_2CuX_4$ based perovskite solar cells using SCAPS simulation", *Optical and Quantum Electronics 55*, p968, **Impact Factor 3**

Biography

RAJAT BAJAJ

Department of Applied Physics

Rajat Bajaj is pursuing Ph.D under the supervision of Prof. A. S. Rao, Department of Applied Physics, Delhi Technological University and Prof. Vijaya Prakash, Department of Physics, Indian Institute of Technological, Delhi. He has completed his M.Tech and B.Tech in Nanotechnology from Sri Guru Granth Sahib World University. Sri Fatehgarh Sahib, Punjab. He did his major thesis "Removal of Paraphenylene Diamine (Kaala Patthar) Dye Using Zinc Peroxide-Charcoal as Adsorbent " at National Physical Laboratory, New Delhi. He also got an award for developing the dye used during elections at NPL Lab. He has hands-on experience in nanophosphors, wLEDs and glasses. His main focus holds nanophosphors for Nano-bio photonics applications. and wLEDs. During his Ph.D. tenure, he published 9 research papers at Material and Atmospheric Science Research Laboratory (MASRL), DTU and 2 in M. Tech at Nanoscience Lab, S.G.G.S. World University.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Bajaj R.**, Prasad A., Ravita, Shandilya A., Rohilla P., Rao A.S., 2023, "Thermally stable Sm^{3+}-doped alkali zinc alumino borosilicate (AZABS) glass for warm white light generation and w-LED applications" ,*Luminescence 38,* p428-436, **Impact Factor 2.9**

Biography

RAJESH GUPTA

Department of Applied Physics

Currently, I, Rajesh Gupta, am persuing my phd degree from the department of applied physics, DTU . My research topic is Studies of Alfven waves in plasma and complex plasma. I have published 3 research papers in the journals of international repute along with one full length paper as international conference proceedings and one more has been submitted. I have attended two international conferences and one national conference so far. I am a very sincere, dedicated, and hard working fellow who has a desire to learn more.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. Gupta R., Gupta D.N., **Gupta R.**, Sharma S. C., 2023, "Beam Driven Growth of Lower Hybrid Wave in a Magnetized Relativistic Beam Plasma System", *Journal of Fusion Energy 42*, p25, **Impact Factor 1.793**

2. Gupta, R., **Gupta, R.**, & Sharma, S. C. (2023). Generation of an obliquely propagating shear alfven wave in dusty plasma by an ion beam. *Contributions to Plasma Physics*, *63*(3-4), e202200178. **Impact Factor**

Biography

RAJESH KUMAR

Department of Applied Physics

Mr. Rajesh Kumar is currently working as a full time research scholar in the Department of Applied Physics, Delhi Technological University. He has passed his masters from the Department of Physics, Kurukshetra University, Kurukshetra. His research interest is in first principle based thermoelectric and optical properties of oxide materials. He has authored five papers in various reputed journals.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Bibiyan R.K., Vij A, Sangeeta, **Kumar R.,** Singh M., 2023, "An ab-initio study of induced half metallic ferromagnetism in Hf–Nb alloy oxides", *The European Physical Journal Plus* 138, p561, **Impact Factor 3.4**

Biography

RAVINDRA KUMAR SINHA

Department of Applied Physics

R.K.Sinha has completed 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, NIT Hamirpur H.P. and DCE/DTU. He has established TIFAC-CORE in Fiber Optics and Optical Communication and executed B.Tech. Engineering Physics, M.Tech.(MOCE) and M.Tech. (NST)) at DTU Delhi. Prof Sinha has published 386 research papers in Journals and Conference Proceedings and 06 book chapters and 03 books, filed 06 patents, supervised 22 sponsored projects and 21 Doctoral theses. He is the Fellow of International Society of Optics and Photonics (SPIE), Fellow of IETE and Fellow of OSI. He has served as Director of CSIR-CSIO Chandigarh, CEERI Pilani and IMTECH Chandigarh. Currently, he is the Vice Chancellor of Gautam Buddha University. He has mentored over 39 Technology development and transfers to the Industry. He is the recipient of Gold-Skoch Award for Defence Technology 2020, CSIR Technology Award 2018, the Fulbright-Nehru Fellowship 2013 as International Educational Administrator, the Royal Academy of Engineering (UK)Fellowship 2008, the JSPS (Japan) Fellowship and EPFL (Switzerland) Fellowship 2009 besides several awards for his research work.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Sherawat V., Bokolia R., **Sinha R.K.**, 2023, "Studies on temperature-dependent bandgap and gap-to-midgap ratio in diamond lattice photonic crystal with biosensing applications", *Optical Materials 145*, p114470, **Impact Factor 3.9**

Biography

RENUKA BOKOLIA

Department of Applied Physics

Renuka Bokolia is currently working as an Assistant Professor in the Department of Applied Physics at Delhi Technological University, Delhi, India. She received her B.Sc degree in Physics (Hons.) from Kirori Mal College, Delhi University, and her M.Sc. degree in Physics with a specialization in Laser and Spectroscopy from the Department of Physics and Astrophysics, Delhi University. She obtained her Ph.D. from the Department of Physics and Astrophysics, Delhi University, in 2018 under the guidance of Prof. K. Sreenivas. She has authored or co-authored 31 research papers in several reputed international journals and conferences. Presently, she has been guiding three Ph.D. students and has guided several B. Tech, M. Tech, and M. Sc. students. Her research interests include the development and characterization of upconversion photoluminescence phosphors, ferroelectric ceramics, multiferroics, and magnetic materials for potential applications in the areas of bio-imaging, three-dimensional displays, solid-state lasers, and luminescence thermometry.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Bokolia R.**, Banwal A.,2023, "Efficient tunable temperature sensitivity in thermally coupled levels of Er^{3+}/Yb^{3+} co-doped $BaBi_2Nb_2O_9$ ferroelectric ceramic", *Journal of Luminescence* 263, p120071, **Impact Factor 3.6**

Biography

RICHA PAIJWAR

Department of Applied Physics

Ms. Richa Paijwar Ph.D. Scholar in the department of Applied Physics, under the supervision of Prof. Rinku Sharma. She has worked on Atomic Structure Calculations and processes in highly charged ions. She has published 5 international research papers and attended 5 international conferences to present posture.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Richa**, Sharma R., 2023, "Theoretical study of the atomic parameters, plasma parameters and photoionization of W LXIV.", *The European Physical Journal Plus* 138 , p1120, **Impact Factor 3.4**

2. **Richa**, Sharma R., 2023, "Study of SXR and HXR transitions with intensity spectra of W LXIX.", *The European Physical Journal Plus*. 138 , p460, **Impact Factor 3.4**

Biography

RICHA SHARMA

Department of Applied Physics

Richa Sharma is currently working as an Assistant Professor in the Department of Applied Physics at Delhi Technological University, Delhi, India. She received her B.Sc. Degree in Physics (Hons.) from Kalindi College, University of Delhi, and her M.Sc. Degree in Physics with a specialization in Electronics from the Department of Physics and Astrophysics, University of Delhi. She obtained her Ph.D. from the Department of Physics and Astrophysics, University of Delhi in the year 2016 under the guidance of Prof. R. P. Tandon. She has authored or co-authored around 10 research papers in several reputed international journals and conferences. Presently, she has been guiding three Ph.D. students and has guided several B. Tech, M. Tech, and M. Sc. Students for projects and dissertation work. Her research interests include the development and characterization of ferroelectric ceramics, multiferroics, and piezoelectric materials for potential application in the area of energy storage.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Verma K. and **Sharma R.**, 2023, "A flexible piezoelectric generator based on KNN/PVDF composite films: Role of KNN concentration on the piezoelectric performance of generator", *Chinese Journal of Physics 84*, p198 - 215, **Impact Factor 5**

Biography

RINKU SHARMA

Department of Applied Physics

Rinku Sharma is currently working as Dean Academic PG at Delhi Technological University, Delhi, India. Her research interests include Interaction of Superintense, femto-second Laser Fields with Atoms, and Molecules-involving Multiphoton Processes, Collisions in Intense Short Laser Pulses, Atomic structure calculations for multi-electron atoms and ions using Configuration Interaction Technique, Photoionization of complex ions and atoms, Plasma Physics/Plasma Applications, Nanotechnology, THz Radiation Emission.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	03

1. **Sharma R.**, Arora S., Gupta Y., Khosla P., Priyanka, 2023, "Impact of Impurity on the Mean Energy, Heat Capacity, Free Energy, Entropy and Magnetocaloric Effect of $Ga_{1-\chi}Al_{\chi}As$ Quantum Wire", *Journal of Low Temperature Physics*, p212, **Impact Factor 1.618**

2. **Sharma R.,** Khosla P., Arora S., Gupta Y., Priyanka, 2023, "Hydrostatic Pressure Effect on the Thermodynamic Properties of Quantum Wire Under a Crossed Electromagnetic Field", *Journal of Low Temperature Physics* 213 , p92-106, **Impact Factor 1.618**

3. **Sharma R.,** Gupta Y., Khosla P., Arora S., Priyanka, 2023, "Thermodynamic Properties of Conical Quantum Dot Modulated by External Fields and Rashba Spin–Orbit Interaction", *Journal of Low Temperature Physics* 213, p45448, **Impact Factor 1.618**

Biography

RISHU CHAUJAR

Department of Applied Physics

Rishu Chaujar is presently working as a Professor in Department of Applied Physics and Centre Coordinator, Vinod Dham Centre of Semiconductor Research, DTU; and is involved in teaching the B.Tech, M.Sc. and M.Tech courses. She was honored with the University Gold Medal in M.Sc. (Electronics) and College Topper in B.Sc. (H) Electronics in Delhi University. 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 353 papers in various reputed international and national journals and conferences. She has supervised around 20 M.Tech/M.Sc. students, 10 Ph.D scholars; and 8 Ph.D scholars are presently working under her supervision. She has been awarded the PREMIER RESEARCH AWARD in 2018 and COMMENDABLE RESEARCH AWARD for excellence in research, Delhi Technological University, for the six consecutive years from 2018- 2023. In addition, she has also been awarded the Cumulative Citation Award: SILVER and Early Research Impact & Influence Award in 2023. 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 in 2022. She is a reviewer of various reputed international journals. She is a Fellow of IETE, Fellow of OSI, Life member of NASI and members of various international professional societies.

Award Summary and Publication Details

Citation Awards	
Yearly Citation Award) Early Research Impact and Influence Award)	
Category Name	**No .of Publications**
Commendable Research Award	03

1. **Chaujar R.,** Getnet M., 2023, "Sensitivity Investigation of Junctionless Gate-all-around Silicon Nanowire Field-Effect Transistor-Based Hydrogen Gas Sensor", *Silicon 15*, p609-621, **Impact Factor 3.4**

2. **Chaujar R.,** Sharma M., Kumar B., 2023, "Small signal and noise analysis of T-gate HEMT with polarization doped buffer for LNAs", *Micro and Nanostructures 180*, p207593, **Impact Factor 3.1**

3. **Chaujar R.,** Kumar B., Sharma M.,2023, "Polarization induced doping and high-k passivation engineering on T-gate MOS-HEMT for improved RF/microwave performance", *Material Science And Engineering B* 290, p116298, **Impact Factor 3.6**

Biography

ROHAN BHATIA

Department of Applied Physics

I am a Masters student at the University of Southern California, Los Angeles, majoring in Applied Data Science. I completed my B. Tech in Engineering Physics with a Minor in Artificial Intelligence and Machine Learning from Delhi Technological University in May 2023. In this program, I got the opportunity to learn Applied Physics, Electronics, and Computation, which led to my interest in Quantum Computing and Algorithm Design. I worked at IIIT Delhi's BraQIIIT Lab and co-authored and published a Quantum Machine Learning research paper at the QTML'22 conference and the Springer QMI journal. Further, gaining more interest in Machine Learning and its applications, I pursued a Minor in Artificial Intelligence and Machine Learning. I then worked on a research project in Natural Language Processing at IIT Patna's AL-NLP-ML Lab, which led to the publication of my next two research papers in the IEEE TCSS journal and ECIR'23 conference. For my final year major project, I worked under the supervision of Dr. S.C. Sharma on creating a Graphene-based photo-sensing device. Presenting this work I published my fourth research paper in IOP's ECS journal. My research experience and coursework at DTU led me to pursue an MS at a world-renowned university, and I aim to become a Data Scientist.

Award Summery and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Bhatia, R**., Ramachandra, U., Anirudh, V., Kansal, M., & Sharma, S. C. (2023). Terahertz Metamaterial Absorber Based on Graphene with Properties Optimised by Investigation of Plasma Parameters for Improved Device Performance. *ECS Journal of Solid State Science and Technology*, *12*(7), 071003. **Impact Factor 1.8**

Biography

SANDEEP SHARMA

Department of Applied Physics

Mr. Sandeep Sharma is currently pursuing his Ph.D. degree in the Department of Applied Physics, at Delhi Technological University, Delhi, India. He is currently working on the topic “Enhancement in Luminescent Properties of Rare Earth Doped Barium Strontium Alumino Borosilicate Glasses for Photonic Applications”. His research interests include the synthesis of rare earth doped glasses and study of their photonic properties. He received his master’s degree in Physics from the Department of Physics and Astrophysics, University of Delhi, Delhi, India. He has secured AIR 15 in CSIR-UGC NET (Physical Science) June 2021. He has also done Masters in Education and Psychology. He received his bachelor’s degree (B.Sc. (H) in Physics and B.ed from University of Delhi, Delhi, India

Award Summery and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **S. Sharma,** A. S. Rao, and K. Kishore, "Energy transfer dynamics in thermally stable Sm^{3+}/ Eu^{3+} co-doped AEAlBS glasses for near UV triggered photonic device applications," Journal of Non-Crystalline Solids, vol. 580, p. 121392, 2022. **Impact Factor: 4.458**

Biography

SHEETAL KUMARI

Department of Applied Physics

Miss Sheetal Kumari is currently pursing her Ph.D degree in the department of applied physics at Delhi Technological Technological Delhi, India. She is currently working on theStructural and photoluminescence properties of rare earth doped Strontium Tungsten Yttrium Oxide phosphor for solid state lighting applications.

Her research interest includes the optimization of rare earth ion doped materials.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Kumari, S**., Anu, Prasad, A., Rohilla, P., & Rao, A. S. (2023). Prospective applications of thermally stable Dy^{3+} doped potassium zinc strontium borate (KZSB) glasses in w-LEDs. *Journal of Materials Science: Materials in Electronics*, *34*(10), 907. **Impact Factor 2.8**

2. **Kumari, S.**, Anu, Prasad, A., Rohilla, P., & Rao, A. S. (2023). Prospective applications of thermally stable Dy^{3+} doped potassium zinc strontium borate (KZSB) glasses in w-LEDs. *Journal of Materials Science: Materials in Electronics*, *34*(10), 907. **Impact Factor 2.8**

Biography

SHIVANGI RAJPUT

Department of Applied Physics

My Ph.D. research area is the “Synthesis and electrochemical studies of non-intercalation type alternative anode materials for Li-ion batteries.” Synthesis and electrochemical studies of the developed anode have been done using different synthesis routes and methods. Hands-on experience in the fabrication of coin cells and good knowledge of various electrochemical studies such as Cyclic Voltammetry (CV), Electrochemical Impedance Spectroscopy (EIS), Galvanostatic Charge Discharge (GCD), Galvanostatic Intermittent Titration Technique (GITT), and many more.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Rajput S.**, Gupta A., Panwar A. K., 2023, “Study of Lithium diffusion properties and electrochemical performance of SnSe/C and SnSe/MWCNT composite anode for Li-ion Batteries”, *Solid State Ionics* 394, p116206, **Impact Factor 3.699**

Biography

SUMAN DAHIYA

Department of Applied Physics

Ms. Suman Dahiya has submitted her Ph.D. in the Department of Applied Physics, Delhi Technological University, Delhi, India. She received her bachelor's and master's degree in physics from University of Delhi and DCRUST, India, respectively. She has published 8 research papers in international journals and conferences. Her research interests include Quantum Physics, Non-linear physics, Nano-photonics and Optics.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Dahiya S.**, Lahon S., Sharma R., 2023, "Study of third harmonic generation in $In_xGa_{1-x}As$ semi-parabolic 2-D quantum dot under the influence of Rashba spin-orbit interactions (SOI): Role of magnetic field, confining potential, temperature & hydrostatic pressure, *Physica E: Low-dimensional Systems and Nanostructures 147*, p115620 ,**Impact Factor 3.3**

Biography

SUMANDEEP KAUR

Department of Applied Physics

Award Summary and Publication Details

Category Name	No. of Publications
Commendable Research Award	01

1. **Kaur, S.,** Kumar, V., & Rao, A. S. (2023). Deep red emission from rare-earth-free calcium aluminozincate phosphor with the substitution of Cr^{3+} ion. *RSC advances*, *13*(24), 16663-16670. **Impact Factor 3.9**

Biography

SURESH C. SHARMA

Department of Applied Physics

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 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 the 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 19 Ph.D. students (Awarded: 16 and Ph.D. thesis submitted:03) and several M. Tech & B. Tech students. He has published 211 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 a commendable Research Award for Excellence in Research by DTU, Delhi for 6 consecutive years i.e., March 2018, March 2019, March 2020, Feb 2021, March 2022 and April 2023. 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.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	03

1. **Sharma S. C.**, Sharma R.P., Jyoti, 2023, "Localization and turbulence of Beam-Driven Whistler wave with Magnetosonic wave in Magnetopause", *Physics of Plasmas 30* , p22904,2023, **Impact Factor 2.023**

2. Khanna S and **Sharma S. C., 2023**,"Theoretical Modeling and Numerical Simulation of enhanced graphene growth under the influence of oxidizers in RF-PECVD plasma using finite element method", *The European Physical Journal Plus 138*, p321, **Impact Factor 3.69**

3. **Sharma S. C.,** Segwal K., Mor H., 2023, "Low Frequency Waves in a Strongly Correlated Collisional Magnetized Dusty Plasma Cylinder", *IEEE Trans on Plasma Science Vol. 51*, No. 10, p3234, **Impact Factor 1.5**

Biography

UMANG

Department of Applied Physics

I,Dr. Umang, did my PhD from the department of Applied Physics under supervision of Prof Vinod Singh and joint supervision of Prof. Rinku Sharma. My area of research is to study structural and optical properties of pyrochlore structured materials. In future perspectives, I'm planning to synthesize binary and ternary oxides and doped them with various rare earths to enhance luminescence performance.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Kulriya P.K., **Berwal U.**, Singh V., Sharma R., Kumar A., 2023 , "Influence of Al^{3+} codoped ions for the improvement of orange reddish light emitting photoluminescence characteristics of $Gd_2Ti_2O_7:Eu^{3+}$ Pyrochlore", *Ceramics International 49*, p34015-34024, **Impact Factor 5.2**

Biography

VIBHA SHARMA

Department of Applied Physics

I am Vibha Sharma from Haryana. After completing the schooling from my hometown, I embarked on my academic journey at Rajdhani College, University of Delhi and completed B.Sc. Physics Hons, where I developed an interest of dwelling deeper into the subject. This passion led me to pursue a Master's degree in Physics from Delhi Technological University. During which I done my project in the field of Material Science and published a research article under the supervision of Prof. A.S. Rao. This research experience has sharpened my analytical skills and deepened my understanding of the subject. I am proud to have presented our findings at 2nd International Conference on "Advanced Functional Materials and Devices"(AFMD-2023), further demonstrating my commitment to advancing knowledge in my field. The Research Award Excellence Function represents more than an accolade; it signifies a chance to continue my journey of discovery, make meaningful contributions, and inspire future generations of researchers.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Prashad A., **Sharma V.**, Maurya S., Anu, Rao A.S. ,2023, "Structural, optical, and luminescence properties of Dy^{3+}-activated potassium calcium silicate phosphor for white light-emitting diodes" *,Luminescence-The journal of biological and chemical luminescence 38* , p1607-1617, **Impact Factor 2.613**

Biography

VIJAY SINGH MEENA

Department of Applied Physics

Vijay Singh Meena did his M. Sc. Physics (Microwave Electronics) from University of Rajasthan, Jaipur in 2004. He joined Solid State Physics Laboratory, DRDO, Delhi on Feb 21, 2005 and presently he has the position of Technical officer 'B' in this organization. He also received another degree of M. Sc. Physics (Solid state Physics) in 2007 from MP Bhoj Open University, Bhopal during this tenure. At SSPL, he is attached with the IR device fabrication division which is involved in the development of HgCdTe based infrared devices. His research area is study of various thin films (passivation, metallization, growth of indium bumps and Anti reflection coating) used in IR detector fabrication. During his research career he has been dignified by various awards (DRTC and Technology Group Award) to develop the IR detector technologies of different formats for numerous defence/ space applications. Also, he is co-author of many research papers of IR detector technology. He has participated in various training courses and national/international conferences.

He has recently (i.e. in the month of July, 2023) completed his PhD degree in part-time mode from the Department of Applied Physics, DTU, Delhi under the supervision of Dr. Mohan Singh Mehata (Assistant Professor). His research-topic is Investigation of thin films properties for HgCdTe based infrared detector. He published four journal-papers and one paper in Material Today Proceedings during his PhD tenure. He published two research papers in Year 2023.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Meena V.S.**, Saini A. K., Jain S., Kumar D., Mehata M.S., 2023, "Design and development of four-layer anti-reflection coating stacks (ZnS and YF3 thin films) for HgCdTe-based mid-wave infrared detectors" ,*Materials Science in Semiconductor Processing 163*, p107556**, Impact Factor 4.644**

2. **Meena V.S.**, Saini A. K., Jain S.,Mehata M.S., 2023, "Structural, compositional, morphological and electrical characteristics of thermally evaporated Au Ohmic Contact on p-type HgCdTe substrate for possible infrared detectors", *Optical Materials 141*, p113943, **Impact Factor 3.9**

Biography

VINOD SINGH

Department of Applied Physics

Vinod Singh is a Professor in the Department of Applied Physics, Delhi Technological University, Delhi. He is also the Convener of Institution's Innovation Council (IIC), DTU. He joined DCE as a Lecturer in Physics in 2003 at the age of 23 years and has the teaching, research and academic administrative experience of more than 20 years. He received his Ph.D. degree from Indian Institute of Technology (IIT) Delhi. He was honored with the University Gold Medal in both the B.Sc. and M.Sc. (Physics) and also honored with Bhamashah Award (Gold Medal), presented by Sir V.S. Naipaul, Nobel Laureate. He is an active researcher currently supervising eleven Ph.D. scholars and has published a patent (granted). He has been awarded four-time the Research Excellence Awards for excellence in research by DTU. He has delivered more than 20 invited talks in international and national academic events. He is the Principal Investigator of the sponsored research projects. He was the convener of two International Conferences CAMNP-2019 and ICAMNOP-2023 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.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	03

1. Berwal U., **Singh V.**, Sharma R. , 2023, "Structural and optical studies on Dy^{3+} doped $Gd_2Ti_2O_7$ pyrochlore as white light emission", *Ceramics International 49 (6)*, p8897-8906, **Impact Factor 5.2**

2. Berwal U., **Singh V.**, Sharma R. , 2023, "Effect of $Ce^{4+} \rightarrow Ce^{3+}$ conversion on the structural and luminescence properties of Ce^{4+} doped $Gd_2Ti_2O_7$ pyrochlore oxide", *Journal of Luminescence 257*, p119687, **Impact Factor 3.6**

3. Sharma S. K., Kulriya P. K., Chandra K., **Singh V.,** 2023, "Probing the influence of Ho^{3+} doping on structural and magnetic properties of $(Gd_{1-y}Ho_y)_2Ti_2O_7$ pyrochlore", *Journal of Alloys and Compounds 960,* p170779, **Impact Factor 6.2**

Biography

VISHAL SINGH

Department of Applied Physics

Vishal Singh is a research scholar at Delhi Technological University, Delhi pursuing his research in the Applied Physics Department since July 2018. Prior to this, he completed his Master in Physics from Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal Sonipat (Haryana) in the year 2017 and Bachelor of Science from Govt. P.G. College Bhiwani, Maharshi Dayanand University Rohtak in the year 2015. He has been awarded the Commendable Research Award for excellence in Research by DTU in year 2023. He has received best poster presentation award in ICMAT 2023, at SUNTEC, Singapore, 26th - 30th June, 2023. His present research interests are in the field of fabrication of piezoelectric and triboelectric nanogenerators for mechanical energy harvesting and their applications in making wearable devices.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Singh V.**, Singh B., 2023, "PDMS/PVDF-MoS_2 based flexible triboelectric nanogenerator for mechanical energy harvesting", *Polymer 274,* p125910, **Impact Factor 4.6**

Biography

YASH PATHAK

Department of Applied Physics

Yash Pathak received his B.Sc. degree in Physics (Hons.) from DBRAU Agar Unhiversity, Uttar Pradesh, India, in 2017 and his M.Sc. degree in Physics from DBRAU Agar Unhiversity, Uttar Pradesh, India, in 2019. He is currently pursuing a Ph.D. degree with the Department of Applied Physics at Delhi Technological University (Formerly Delhi College of Engineering), New Delhi, India. He has authored or co-authored around 7 papers in different reputed international journals and conferences. He is currently investigating new channel materials that can further improve the performance of nanoscale devices and the effects of various structural properties on NCFET overall performance. His research interests include modeling and simulation study of nanoscale semiconductor devices, experimental circuit design and their ULSI switching applications. He is a student member of IEEE.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Pathak, Y**., Malhotra, B.D. & Chaujar, R. Detection of biomolecules in dielectric modulated double metal below ferroelectric layer FET with improved sensitivity. J Mater Sci: Mater Electron 33, 13558–13567 (2022). **Impact Factor 2.8**
2. **Pathak, Y.**, Malhotra, B.D. & Chaujar, R. Analog/RF Performance and Effect of Temperature on Ferroelectric Layer Improved FET device with Spacer. Silicon 14, 12269–12280 (2022). **Impact Factor 2.8**

Biography

YASHA TAYAL

Department of Applied Physics

Ms. Yasha Tayal has completed her doctoral degree in Department of Applied Physics, Delhi Technological University (DTU), Delhi, India under the supervision of Prof. A.S. Rao. She has received her M.Sc degree in Physics from CCS University, Meerut, India. She has been working in various Engineering Colleges in Delhi-NCR from 2008 onwards, teaching various subjects of Physics. She has started her teaching experience from Dr. Akhilesh Das Gupta Institute of Technology & Management, Delhi in the year 2008. Currently working as Senior Assistant Professor in ABES Engineering College, Ghaziabad, U.P. Her area of interest includes synthesis and optical analysis of glasses for photonic applications. She is currently working on luminescent materials focusing on w-LEDs and solar cell applications at Materials and Atmospheric Science Research Lab (MASRL), DTU. She has published four papers and attended various national and international conferences related to her research.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Talewar R.A., Mahmuda S.K., Prasad A., **Tayal Y.**, Maheshwari K., Kumar M., Rao A.S., 2023, "Spectral characterization and energy transfer study of Nd^{3+}/Yb^{3+} in borosilicate glasses ,*Optical Materials 142*, p114049, **Impact Factor 3.754**

Biography

YOGITA KALRA

Department of Applied Physics

Yogita Kalra is working as an Assistant 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.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Shankhwar N., **Kalra Y.**, Ranga R., Kishor K., 2023, "Ultra-narrow band perfect absorber for sensing applications in the visible region" ,*European Physical Journal D 77*, p42, **Impact Factor 1.8**

Department of
Biotechnology

Biography

ANURADHA

Department of Biotechnology

Anuradha completed her master's in biotechnology (MSc Biotechnology) from Banasthali Vidyapith. She did a two-month training in NBPGR, ICAR, NEW DELHI in the Plant Tissue culture Laboratory. As a part of her master's degree, she did her dissertation from INMAS, DRDO, Delhi. Currently, she is pursuing her PhD in Plant Biotechnology from DTU under the guidance of Dr Navneeta Bharadvaja

Award Summary & Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Anuradha**, Bharadvaja N., 2023, 'Exploring different computational approaches for effective diagnosis of breast cancer', *Progress in biophysics and molecular biology* 177, p141-150, **Impact Factor 3.8**

Biography

ASMITA DAS

Department of Biotechnology

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 signaling. Her research focus is on combinatorial immunotherapy for cancer and immunodiagnostics. She is also involved in research in Immunoinformatics and genomics with special thrust on theranostics. Apart from her core area of research, she is also engaged in multi-institution interdisciplinary research with IIT Delhi in the field of Computational Fluid Dynamics in Immune complex diagnostics, AIIMS in tumor microenvironment studies and with JNU in a project on nanoparticle mediated drug delivery system development. Her research work in Autophagy and NK receptor signaling has generated several high impact publications like 43.4, 13.6, and many others.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	03

1. Kumar S. and **Das A.** 2023, 'Peripheral blood mononuclear cell derived biomarker detection using eXplainable Artificial Intelligence (XAI) provides better diagnosis of breast cancer'. *Computational Biology and Chemistry* (Elsevier publications) ISSN: 1476-9271. **Impact Factor:3.1**

2. Ritu, Chandra P. and **Das A.,** 2023, 'Immune checkpoint targeting antibodies hold promise for combinatorial cancer therapeutics'. *Clinical and experimental medicine*. (Springer Publication) ISSN: 1591-9528. **Impact factor:4.6**

3. Gulia S., Chandra P. and **Das A.,** 2023, 'The Prognosis of Cancer Depends on the Interplay of Autophagy, Apoptosis, and Anoikis within the Tumor Microenvironment'. *Cell biochemistry and biophysics.* (Springer Publication) ISSN:1085-9195. **Impact factor: 2.**6

Biography

ASMITA KUMARI

Department of Biotechnology

Asmita completed her BSc Honours in Zoology from Zakir Husain, Delhi University and after that she completed her MSc Biotechnology from Delhi Technological University, Delhi.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Kumari A.**, Garima, Bharadvaja N., 2023, 'A comprehensive review on algal nutraceuticals as prospective therapeutic agent for different diseases', *3 Biotech* 13, p44, **Impact Factor 2.8**

Biography

JAI GOPAL SHARMA

Department of Biotechnology

Jai Gopal Sharma is a Professor in the Department of Biotechnology at Delhi Technological University. With a passion for research, he brings a wealth of knowledge and experience to the academic community. He earned his Post Doctoral Fellowship from Kyoto University, Japan, after pursuing Ph.D. from University of Delhi, Delhi. His research interests include Water Quality Management, Industrial and Environmental Biotechnology, Aquaculture, Fish Nutrition, Radiation Biology, UV-B Radiation, Aquatic Ecology, Biosensor, Bioremediation, Bioenergy, Microbiology, Water Pollution, Nanobiotechnology, Gene Expression, Water Chemistry, Environmental Impact Assessment, Chromatography, Amino Acids, Fatty Acids, Bio fuel and Medicinal Chemistry of Plants, Yoga, and he has published numerous articles in reputable journals, contributing valuable insights to the field.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	02

1. Puri P., Singh R, **Sharma J.**, 2023, 'Biotherapeutic microbial supplementation for ameliorating fish health: developing trends in probiotics, prebiotics, and synbiotics use in finfish aquaculture', *Animal Health Research Reviews* 23(2), p113-135, **Impact Factor 2.5**

2. Puri P., Singh R, **Sharma J.**, 2023, 'Micro-/bio-/nano-/syn-encapsulations and co-treatments of bioactive microbial feed supplementation in augmenting finfish health and aquaculture nutrition: a review ', *Beneficial Microbes* 14(3), 281-302, **Impact Factor 5.4**

Biography

KHYATI JOSHI

Department of Biotechnology

Khyati completed M.Tech. in Industrial Biotechnology from Delhi Technological University. In her M.Tech. dissertation, she worked on 'Screening, isolation, and characterisation of cellulase producing bacteria from the environment', under the supervision of Dr. Rashmi Kataria and Prof. Pravir Kumar. Currently, Khyati is pursuing a Ph.D. at York University, Canada. She is working on Biomining of Oil Sand Tailings. With her work, she is aiming to build a sustainable environment.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Joshi K.**, Kumar P., Kataria R.,2023, 'Microbial carotenoid production and their potential applications as antioxidants: A current update', *Process Biochemistry* 128, p190-205, **Impact Factor 4.4**

Biography

MADHULIKA SINGH

Department of Biotechnology

Madhulika Singh is a Research Scholar at the Department of Biotechnology, Delhi Technological University (formerly Delhi College of Engineering), Delhi, India. She received her Bachelor's and Master's degree from University of Delhi, Delhi, India and M.Phil degree from Annamalai University, Tamil Nadu, India. Currently, she is pursuing her Ph.D. under the supervision of Prof. Jai Gopal Sharma and Professor Bhoopander Giri, on the topic "The Role of Soil Microbes in Alleviating Abiotic Stresses in Economically Important Crop Plants". She has published papers in internationally reputed and high-impact factor journals affiliated with Delhi Technological University. Her research interests are in the field of Environmental Biotechnology.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. Giri B., **Singh M.** and Sharma J. G.,2023, 'Microbial inoculants alter resilience towards drought stress in wheat plants' , *Plant Growth Regulation* 101, p823-843, **Impact Factor 4**

2. Giri B., **Singh M.** and Sharma J. G.,2023, 'Microbial inoculants improve growth in Zea mays L. under drought stress by up-regulating antioxidant, mineral acquisition, and ultrastructure modulations', *SYMBIOSIS 91*, 55-77, **Impact Factor 2.9**

Biography

MEGHA BANSAL

Department of Biotechnology

Megha is a distinguished research scholar and trailblazer in her field, dedicated to the pursuit of knowledge and the advancement of science. She exhibits a keen intellect and curiosity from an early age, foreshadowing the remarkable academic journey that lay ahead. She demonstrates an insatiable thirst for learning, excelling in both the sciences and humanities. Her exceptional academic prowess developed a passion for research, captivated by the prospect of unraveling the mysteries of the universe. She is working on micro-nanoplastics degradation, taking into consideration plant and soil that are most deteriorated due to same.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Bansal M.**, Sharma J. G., Santhiya D.,2023, 'Exploring the Impacts of HDPE Microplastics on Growth and Physiological Behavior of Brassica juncea (Mustard Plant)', *Water, Air and Soil Pollution* 234. P520, **Impact factor 2.9**

Biography

MEGHA KUMARI

Department of Biotechnology

I am currently pursuing my Ph.D. studies in biotechnology at Delhi Technical University, in collaboration with the Institute of Nuclear Medicine and Allied Sciences, DRDO, Delhi. I earned my bachelor's degree in science from Patna Science College, Patna, Bihar, India. My academic journey progressed after successfully clearing the JNU-CEEB exam and securing a fellowship to pursue my master's degree at Pondicherry University, Puducherry, India. I also passed the UGC-JRF test and was awarded a Ph.D. fellowship. My current research is focused on the metabolic, behavioural, and microstructural changes in animal models of traumatic brain injury. Other than my dissertation, I co-authored a book chapter for an academic press and contributed to several journal publications. My research interests include metabolomics, behavioural neuroscience, neuroimaging, translational studies, and traumatic injury.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. Arora P., Sharma P., Rana P, D'souza M. M., Chandra N, **Kumari M.**, Hasija Y., 'Acute metabolic alterations in the hippocampus are associated with decreased acetylation after blast induced TBI.', *Metabolomics* 19, **Impact Factor 4.47**

Biography

NAVNEETA BHARADVAJA

Department of Biotechnology

Navneeta Bharadvaja is working as an Assistant Professor at the Department of Biotechnology, Delhi Technological University, Delhi.She has more than 15 years of Research and Teaching experience. Her research area includes establishing the cultures of medicinal plants to obtain pharmaceutically essential compounds, obtaining high yields of Secondary Metabolites of industrial importance, Phyto-remediation, Algal Biotechnology, Nutraceuticals, Biofuels, and PlantInformatics. She has published many peer-reviewed scientific articles in reputed journals.

Award Summary and Publications Details

Citation Awards	
Yearly Citation Award) Early Research Impact and Influence Award)	
Category Name	**No .of Publications**
Commendable Research Award	03

1. Joshi V., **Bharadvaja N.**, 2023, 'Current Prospects and Clinical Status of Microalgae Derived Chemotherapeutics', *Revista Brasileira de Farmacognosia* Vol 33, p445-470, **Impact Factor 1.6**
2. **Bharadvaja N.**, Gautam S., Singh H.,2023, 'Natural polyphenols: a promising bioactive compound for skin care and cosmetics.', *Molecular biology report* 50, p1817-1828, **Impact Factor 2.8**

Biography

NEHA TIWARI

Department of Biotechnology

Neha Tiwari is a Research Scholar at the Discipline of Biotechnology, Department of Biotechnology, Delhi Technological University (formerly Delhi College of Engineering), Delhi, India. She received her Master's degree from the Dept. of Biotechnology, Gautam Buddha University, Greater Noida, U.P. Currently, she pursued Ph.D. under the supervision of Prof. Jai Gopal Sharma and Dr. Deenan Santhiya, on the topic "Microbial degradation of Microplastics" . She has published papers in reputed and high impact factor journals affiliated with Delhi Technological University. Her research interests are in the field of Nano Biotechnology and Environmental Biotechnology.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Tiwari N**., Santhiya D. and Sharma J.G., 2023. 'Degradation of polyethylene microplastics through microbial action by a soil isolate of Brevibacillus brevis'. *Polymer Degradation and Stability,* p.110436. **Impact factor- 5.9**

Biography

PRIYA

Department of Biotechnology

Priya is a PhD scholar from Department of Biotechnology at Delhi Technological University working under the supervision of Prof. Jai Gopal Sharma at DTU and Prof. Bhoopander Giri at University of Delhi. Her research work focuses on the production of enzymes from microbes and its utilization in industry.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Priya**, Sharma J. G.,2023, 'Role of microbial phytases in improving fish health', *Reviews in Aquaculture* 15, 1480-1500, **Impact Factor 10.6**

Biography

PRAVIR KUMAR

Department of Biotechnology

Pravir Kumar, is Dean International affairs and Professor in the Department of Biotechnology. He had also been, Head Department of Biotechnology and Dean of Alumni Affairs at DTU. An academician with more than 20 years of research and teaching experience in vascular biology, molecular neuroscience, drug discovery and lead molecule identification. His areas of research interest and expertise include protein aggregation, molecular chaperone and ubiquitin E3 ligase in neurodegenerative disorders along with the aberrant cell cycle re-entry into aged neurons and muscles. Prof. Kumar has more than 4200+ citations, h-index:30; i-10:60; 250+ papers in peer-reviewed journals and conference proceedings. Before joining Delhi Technological University, Prof. Kumar served as an Associate Professor and assistant Director for Centre for medical Engineering at Vellore Institute of Technology, Vellore,/institution of Eminence (IoE). He has obtained MS degree from BHU, Varanasi, India with Molecular and clinical genetics specialization, and PhD degree from J. W. Goethe University, Germany in the field of coronary artery diseases and cardiovascular physiology. Before returning to India, he served in the Neurology Department at Tufts University School of Medicine, Boston, USA as a postdoctoral fellow and later at faculty position. He has also served as National Expert member of Soldiers health and drug discover (SHDD), Defence Research and Development Organization, Ministry of Defense, Government of India. He was also in the selection panel in prestigious Fulbright scholarship, Indian Council of Medical Research, Ministry of Health, and did many confidential works of Government of India. He is editorial and reviewer of more than 50 journals of international repute including in Nature publication house

Award Summary and Publications Details

Citation Awards	
Cumulative Citation Award :Gold	
Highly Citation Award	
Yearly Citation Award) Early Research Impact and Influence Awards	
Category Name	**No .of Publications**
Commendable Research Award	01

1. Gupta N. S., **Kumar P.**, 'Perspective of artificial intelligence in healthcare data management: A journey towards precision medicine', *Computers in Biology and Medicine* 162, p107051, **Impact Factor 7.7**

Biography

PRAKASH CHANDRA

Department of Biotechnology

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 9 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, Biomicrofluidics, and Toxicology.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	02

1. Butola R., Singh B. P., Dutta S. and **Chandra P. ,** 2023, 'Development of Conducting Biopolymer-Based Biosensor for Heavy-Metal Ion Detection', *ECS Journal of Solid State Science and Technology* 12 (Issue-11), p7001, **Impact Factor 2.2**

2. Singh B. P., Sunder S., Bhandari K., Sounkari S., Vyas M., **Chandra P.**, 2023, 'Antibiotics and nano-antibiotics in treatment of lung infection: In management of COVID-19', *Microbial Pathogenesis* 184, p106356, **Impact Factor 3.8**

Biography

RAHUL TRIPATHI

Department of Biotechnology

Rahul Tripathi is currently pursuing Ph.D. Biotechnology from the Department of Biotechnology, Delhi Technological University under supervision of Prof. Pravir Kumar. His area of research interest is "Functional Genomic Analysis of Neurodegenerative Diseases". He has worked as Senior Research Fellow at the Indian Institute of Wheat & Barley Research. He has completed his M.Tech. Biotechnology from Motilal Nehru National Institute of Technology (MNNIT), Allahabad and B.Tech. Biotechnology from N.C. College of Engineering (Kurukshetra University), Panipat. He has qualified DBT-JRF Category I (2016), GATE (2016 & 2014), and JGEEBILS (2016 & 2014). He is receiving a fellowship from the Department of Biotechnology (DBT), Government of India.

He has published two first-authored papers in Integrative Biology (IF: 2.5) and Environmental Science and Pollution Research (IF: 5.8; Springer, DOI: 10.1007/s11356-021-16693-2) and four as co-author in Ageing Research Reviews (IF: 13.1; Elsevier, DOI: 10.1016/j.arr.2022.101579 and 10.1016/j.arr.2023.101855), Neuroscience and Biobehavioral Reviews (IF: 8.2; Elsevier; DOI: 10.1016/j.neubiorev.2022.104767) and Neurochemistry International (IF: 4.2; DOI: 10.1016/j.neuint.2020.104841).

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Tripathi R.**, Kumar P., 2023, 'Preliminary study to identify CXCR4 inhibitors as potential therapeutic agents for Alzheimer's and Parkinson's diseases', *Integrative Biology* 15, **Impact Factor 2.5**

Biography

RAKSHA ANAND

Department of Biotechnology

Raksha Anand has worked on the development of algal nutraceuticals, waste and biomass valorization, and analytical methods for detecting bioactive compounds from environmental samples. She completed her BSc (Hons.) in Biotechnology from the School of Basic Sciences and Research (SBSR), Sharda University, and her Master's in Biotechnology from the Department of Biotechnology, Delhi Technological University, Delhi.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Anand R. ,** Kumar L., Mohan L. & Bharadvaja N.,2023, 'Nano-inspired smart medicines targeting brain cancer: diagnosis and treatment', *JBIC Journal of Biological Inorganic Chemistry* 28, **Impact Factor 3**

Biography

ROHAN GUPTA

Department of Biotechnology

Rohan Gupta is currently a post-doctoral researcher in The University of South Carolina, United States of America. The scientific research interests of Dr. Rohan Gupta involve the role of immune system in various life-threatening disorders, namely Multiple Sclerosis, Inflammatory Bowel Disease, Colitis, and others. His academic training, research experience, teaching assistance, and scientific training experience have provided him with excellent background on multiple discipline, such as computational biology, machine learning, neuroinformatics, biomedical informatics, drug designing, drug discovery, proteomic studies, genetics, and molecular biology. Currently, He is focussing on identification of novel biomarkers and the mechanism of TCDD in the pathogenesis of Colitis. In his doctoral training, he received a research excellence award from 2020-2023, organized by Delhi Technological University.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	03

1. **Gupta R.**, Kumari S. , Tripathi R., Ambasta R. K., Kumar P., 2023 , 'Unwinding the modalities of necrosome activation and necroptosis machinery in neurological diseases', *Ageing Research Reviews* 86, p101855,, **Impact Factor 13.1**

2. Senapati A., **Gupta R.**, Kumari S., Ambasta R. K., Kumar P., 2023, 'New era of artificial intelligence and machine learning-based detection, diagnosis, and therapeutics in Parkinson's disease', *Ageing Research Reviews* 90, 102013, **Impact Factor 13.1**

3. **Gupta R.**, Advani D., Yadav D., Ambasta R. K.,Kumar P., 2023, 'Dissecting the Relationship Between Neuropsychiatric and Neurodegenerative Disorders', *Molecular Neurobiology* 60, p6476-6529, Impact Factor 5.1

Biography

ROOPAL PAL

Department of Biotechnology

Roopal Pal is a researcher with a passion for biotechnology and environmental pollutant remediation. Educationally, pursuing a Ph.D. in Nanoscience from Jawaharlal Nehru University. Roopal is deeply involved in leadership tasks. Her passion extends beyond work, as demonstrated by her work and interest in the remediation of emerging and hazardous environmental pollutants. With a commitment to her work Roopal is poised to make a lasting impact for betterment of environment's pollution.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Pal R.**, Kumar L., Anand S., Bharadvaja N.,2023, 'Role of Natural Flavonoid Products in Managing Osteoarthritis', *Revista Brasileira de Farmacognosia* 33, p 663-675, **Impact Factor 1.6**

Biography

SIMRAN KAUR

Department of Biotechnology

Simran Kaur is an undergraduate from the Delhi Technological University in the Biotechnology stream. She worked on fabrication of biosensors for study of hormones and early disease detection through precursors in biological fluids. She also focused on the use of analytical tools to understand immensely available biological data. She working as a Technology Risk Consultant at Ernst & Young LLP since July 2022. She aspires to build an ecosystem for life science students where research enthusiasts get the opportunity to build appropriate industry relevant profiles and skills.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Kaur S.,** Gupta N., Malhotra B. D., 2023, 'Recent developments in wearable & non-wearable point-of-care biosensors for cortisol detection', *Expert Review of Molecular Diagnostic*s 23, p217-230, **Impact Factor 5.1**

Biography

SMITA KUMARI

Department of Biotechnology

Smita Kumari is currently a post-doctoral researcher in The Ohio State University, United States of America. Dr. Smita scientific research interests involve translation research and exploring the mechanism of action drugs and drug combinations in various cancer types, especially glioblastoma, colorectal, and breast cancer as a therapeutic approach. Her academic training, industrial experience, research experience, teaching assistance, and scientific training experience have provided her with excellent background on multiple discipline, such as, bioinformatics, drug discovery, proteomic studies, laboratory animal handling techniques, genetics, and molecular biology. Currently, she is focusing on deciphering mechanism of action of novel small molecules in various cancer. In his doctoral training, he received research excellence award from 2021-2023, organized by Delhi Technological University.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Kumari S.**, Gupta R, Ambasta R K., Kumar P.,2023, 'Multiple therapeutic approaches of glioblastoma multiforme: From terminal to therapy', *Biochimica et Biophysica Acta (BBA) - Reviews on Cancer* 1878 (4), p188913, **Impact Factor 11.22**

2. **Kumari S.**, Gupta R, Ambasta R K., Kumar P.,2023, 'Emerging trends in post-translational modification: Shedding light on Glioblastoma multiforme', *Biochimica et Biophysica Acta (BBA) - Reviews on Cancer*, 1878(6), p188999, **Impact Factor 11.22**

Biography

SMITA RASTOGI VERMA

Department of Biotechnology

Smita Rastogi Verma is a faculty at the Department of Biotechnology, Delhi Technological University, Delhi. A Ph.D. (Gold Medallist) in Biochemistry from Lucknow University, an M.Tech. (First Rank) in Biotechnology from the Institute of Engineering & Technology, Lucknow, and an M.Sc. (Gold Medallist) in Biochemistry from Lucknow University, she has more than nineteen years of teaching and research experience. Before joining DTU, she served for more than six years at the Department of Biotechnology, Integral University, Lucknow. She specializes in Molecular Biology and Plant Genetic Engineering. She has authored a text book on 'Genetic Engineering' published by Oxford University Press. She has ~50 publications in reputed journals and conference proceedings to her credit. She has also contributed fourteen chapters in various nationally and internationally published books. She also received Commendable Research Excellence Award, DTU in 2022.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Verma S.R.**, Menon T., Gopal S., 'Targeted therapies in non-small cell lung cancer and the potential role of AI interventions in cancer treatment', *Biotechnology and Applied Biochemistry* 70(1), 344-356, **Impact Factor 2.8**

2. **Verma S.R.** , Garg S., Singh J.,2023, 'Targeting Y220C mutated p53 by Foeniculum vulgare derived phytochemicals as cancer therapeutics,', *Journal of Molecular Modeling* 29(2), p55, **Impact Factor 2.2**

Biography

SUDHANSHU SHARMA

Department of Biotechnology

The scientific research interests of Mr. Sudhanshu Sharma involve the collaborative action of molecular chaperones, ubiquitin E3 ligases and other signaling molecules in the reversal of glioblastoma and other brain tumors. His academic training, research experience, teaching assistance, and scientific training experience have provided him with excellent background on multiple discipline, such as cancer biology, signaling pathways, docking and molecular dynamic simulations, drug designing, drug discovery, proteomic studies, genetics, and molecular biology. As a master's in biochemistry, he received the university gold medal. As a doctoral student under the supervision of Prof. Pravir Kumar, he was able to implement his experience of wet lab experimentations such as cell culture and other proteomic tools in the identification of potential drug candidates in combating glioblastomas and other brain tumors. During his Ph.D., he published several papers in major journals. He also holds the prestigious DST-INSPIRE fellowship and was working as a DST INSPIRE senior research fellow (SRF).

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Sharma S.**, Kumar P., 2023, 'Dissecting the functional significance of HSP90AB1 and other heat shock proteins in countering glioblastomas and ependymomas using omics analysis and drug prediction using virtual screening'. *Neuropeptides* (Elsevier) 102, p102383, **Impact factor 2.9**

Biography

YASHA HASIJA

Department of Biotechnology

Yasha Hasija is currently working as Professor and Head, Department of Biotechnology, Delhi Technological University. She is also the Associate Dean (Alumni Affairs) and Chairperson, Literature and Film Council at Delhi Technological University.

She has published more than 125 research articles and review papers in national and international journals and conferences and 20 book chapters. She has served as Topic Editor in Frontiers in Physiology, Computational Physiology and Medicine, 2022, and is also on the Editorial Board of numerous international journals. She has made noteworthy contributions in the area of Biotechnology and Bioinformatics as an author and editor of 03 notable books.

Prof. Hasija's work has earned recognition and received several prestigious awards, including the Govt. of India- Department of Science and Technology Award for attending the meeting of Nobel Laureates and Students in Lindau, Germany in 2002; and Human Gene Nomenclature Award at the Human Genome Meeting-2010 held at Montpellier, France. She has also been awarded Research Excellence Awards at DTU for six consecutive years- 2018 to 2023, including Premier Research Award in 2021.

Prof. Hasija has completed several sponsored research projects from Govt. of India departments as Principal Investigator including DST, CSIR and DBT. She has delivered more than 22 invited talks at several prestigious universities and institutions. She is an active researcher supervising B.Tech, M.Tech, M.Sc. and Ph.D. students at Delhi Technological University.

Her broad areas of research include genome informatics, integration of genome-scale data for systems biology, and machine learning applications in healthcare.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Hasija Y.**, Meena J.,2023, 'Rare deleterious mutations in Bruton's tyrosine kinase as biomarkers for ibrutinib-based therapy: an in silico insight', *Journal of Molecular Modeling* 29, p120, **Impact Factor 2.2**

Department of
Civil Engineering

Biography

ARCHITA GOYAL

Department of Civil Engineering

Archita Goyal has completed her PhD from Civil Engineering Department, Delhi Technological University, Delhi in 2023. Obtained her M.E. in Geotechnical Engineering from MBM Engineering College, Jodhpur in 2014 and B.Tech. in Civil Engineering from Engineering College, Kota in 2010. She has 2 years Industrial and 5 years teaching experience. Her area of interest includes geotechnical engineering, slope stabilization, ground improvement techniques, soil structure interaction and soil nailing techniques etc.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Goyal A.**, Shrivastava A. K.,2023, 'Optimization of helical soil nailing behaviors by response surface methodology and hybrid coot optimization', *Numerical and Analytical Methods in Geomechanics* 47, p 1658-1680, **Impact Factor 4.229**

Biography

DEEPAK SINGH

Department of Civil Engineering

Deepak Singh is currently working as a credit-based faculty member in the Department of Civil Engineering at NIT Delhi, India. He received his B. Tech. (Hons.) in Civil Engineering from UTU, his M. Tech. (Hons.) in Hydraulic Engineering (Civil Engineering) from GBPUAT, Pantnagar, and his Ph.D. in Civil Engineering from Delhi Technological University. He has published fourteen papers in refereed international and national journals and five chapters in conference proceedings/springer publishing. His area of research is hydraulic engineering, computational hydraulics, and hydraulic structures.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Singh D.** and Kumar M., 2023, 'Effect of the Inlet-to-Outlet Key width ratio of Piano Key Weir on its Hydraulic Behaviour.', *Flow Measurement and Instrumentation* 91, 102342, **Impact Factor 2.65**

Biography

MANOJ KUMAR KALRA

Department of Civil Engineering

Manoj Kumar Kalra received his Bachelor degree in civil engineering from Thapar Institute of Engineering and Technology, Patiala in 1991. He is working with Defence Research & Development Organisation (DRDO), India pursuing research in different operational areas. He has over 30 years of experience in addressing various snow and terrain related issues for different Defence applications. Currently, he is also pursuing his Phd from Delhi Technological University (DTU), Delhi.

Remote sensing, Digital image processing and Terramechanics are some of his skill areas. One of his current research areas includes evaluation of trafficability potential of various terrain features for off-road movement of vehicles. Other than the contributions in the form of scientific papers and technical reports, he has filed three IPRs also, two of which are granted. His interest areas also include bringing out an integrated solution for different terrain interactive systems by interfacing domain science, instrumentation and computational aspects.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Kalra M. K.,** Trivedi A. and Shukla S., 'Nonlinear Regression Analysis of Rut Profile Data for Optimal Data Storage and Efficient Terrain Condition Analysis', *IEEE Geoscience and Remote Sensing Letters (GRSL)* 20, pp. 1-5, Art no. 6501305, **Impact Factor 4.8**

Biography

MOHIT AGGARWAL

Department of Civil Engineering

Mr. Mohit Aggarwal is a PhD Scholar in Civil Engineering Department of Delhi Technological University and he is currently working as Assistant Professor in Galgotias College of Engineering & Technology, Greater Noida. He is pursuing PhD on the topic "Assessment of Heavy Metal Pollution in Ganga River from Kanpur to Prayagraj Stretch, India" under the guidance of Prof. S Anbukumar & Prof. T Vijaya Kumar. He has completed his Bachelor degree in Civil Engineering from Bharati Vidyapeeth Deemed University, Pune and Masters in Civil Engineering from Motilal Nehru National Institute of Technology, Allahabad (Prayagraj). In his teaching experience of almost 7 years, for 3 years he has worked as Assistant Professor in Govt. of India TEQIP project as a NPIU faculty at Madhav Institute of Technology and Science, Gwalior and for 2 years at G L Bajaj Institute of Technology & Management, Greater Noida. He also had an experience to work as "Senior Research Fellow" in Central Pollution Control Board, Delhi.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Aggarwal M.**, Anbukumar S., Kumar T.V., 2023, ' Analysis and pollution assessment of heavy metals in suspended solids of the middle stretch of river Ganga between Kanpur to Prayagraj, UP, India', *Sadhana 48*(4), **Impact Factor 1.6**

Biography

MUNENDRA KUMAR

Department of Civil Engineering

Prof. Munendra Kumar is currently a Professor in the Civil Engineering Department at Delhi Technological University, India. He obtained his B.Tech. (Civil) and M.Tech. (Structural Design) degree from AMU Aligarh nd a Ph.D. degree (Fluid Mechanics) from IIT Delhi. He has published about 50 papers in referred national and international journals and conference proceedings. His research areas are applied Fluid Mechanics, surface water quality management, computational hydraulics, and hydraulic structures. He has guided 05 Ph. D. and 40 M.Tech Dissertations.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. Singh D. and **Kumar M.,** 2023, 'Study of the Energy Dissipation over the Type-A Piano Key Weir.', *KSCE Journal of Civil Engineering* 27, 1568–1584, **Impact Factor 2.2**

Biography

NERUSUPALLI DINESH KUMAR REDDY

Department of Civil Engineering

Nerusupalli Dinesh Kumar Reddy, is currently a research scholar in the Civil Engineering Department at Delhi Technological University, India. He obtained his B.Tech. (Civil) and Construction Technology and Management from NITTTR, Bhopal. His area of research is Soil Dynamics and Machine Learning. And he has published 2 SCIE papers and he also a reviewer in 2 -SCIE and 4 Scopus Journals

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Reddy N. D. K.**, Gupta A.K., Sahu A.K., 2023, 'Optimized ensemble-classification for prediction of soil liquefaction with improved features', *Multimedia Tools and Applications* 82, p 31467–31486, **Impact Factor 3.6**

Biography

RAJU SARKAR

Department of Civil Engineering

Dr. Raju Sarkar is a Professor in Department of Civil Engineering and Coordinator of Centre of Excellence in Disaster Risk Reduction (CoEDRR), 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 also 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. 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, MoEF. 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.

Award Summary and Publications Details

Citation Awards	
Yearly Citation Award) Early Research Impact and Influence Award)	
Category Name	**No .of Publications**
Commendable Research Award	02

1. Saha S., **Sarkar R.**, Mohanty B., 2023, 'Preparing coastal erosion vulnerability index applying deep learning techniques in Odisha state of India', *International Journal of Disaster Risk Reduction* 96 (2023) 103986, **Impact Factor 5**

2. **Sarkar R.**, Kumar A.,2023, 'Debris Flow Susceptibility Evaluation—A Review', *Iranian Journal of Science and Technology, Transactions of Civil Engineering* 47, pages 1277–1292, **Impact Factor 1.7**

Biography

RITU RAJ

Department of Civil Engineering

Dr. Ritu Raj's research interests revolve around the domain of Structural Engineering, with a particular focus on Wind Engineering and further expertise extends to Computational Fluid Dynamics (CFD) and Concrete Technology, through his research pursuits, his aims to contribute to advancements in the field, providing valuable insights into the behaviour of structures.

Dr. Ritu Raj has been associated with Delhi Technological University (DTU) since 2014. During this time, he may have contributed to various academic, research, or administrative endeavors, showcasing his commitment to the university's mission and goals. His impact extends beyond academic mentorship, encompassing a prolific research portfolio. He has successfully supervised a total of 23 Master's and 5 Doctoral scholars, demonstrating his commitment to guiding and nurturing emerging researchers. His scholarly contributions are substantial, with a focus on high-impact journals. Notably, Dr. Ritu Raj has authored 22 papers in SCI/SCIE journals, showcasing the quality and relevance of his research. Furthermore, his work includes 29 papers indexed in Scopus, contributing to the global dissemination of knowledge. In addition to journal publications, he has enriched the academic landscape through the publication of 31 papers in International/National Journals.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Raj R.**, Sharma D., and Pal S., 2023, 'Effect of spacing on wind-induced interference on the roof of low-rise buildings with cylindrical roof using CFD Simulation', *Sadhana Volume 48*, issue 4, Article no 283 and Page No. 1-14, **Impact Factor 1.6**

Biography

SANDEEP PANCHAL

Department of Civil Engineering

Sandeep Panchal defended his PhD in January 2023 in Geotechnical Engineering under the guidance of Dr. Amit Kr Srivastava. His work is on microzonation of landslides in the Himalayan region.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. Shrivastava A. K., **Panchal S.**,2023, 'Debris failure susceptibility mapping using information value method', *Sādhanā Academy Proceedings in Engineering Sciences* 48, Article no 119, **Impact Factor 1.6**

Biography

SHHILPA PAL

Department of Civil Engineering

Dr. Shilpa Pal is Associate Professor Department of Civil Engineering, Delhi Technological University, New Delhi. She has done her B.Tech from Thapar Institute of Engineering & Technology, Patiala, M.E.(Gold Medalist) in Structural Engineering from Punjab Engineering College (Punjab University), Chandigarh and Ph.D. in Earthquake Engineering from IIT Roorkee. Her areas of interest are Damage detection in Buildings, sustainable solution for rehabilitation of heritage structures, 2-D & 3-D Seismic Analysis of Dams and Seismic Slope Stability Analysis, Landslide hazard, vulnerability and risk studies, Self- bacterial concrete. Presently her team is working on damage detection in buildings using smart materials and protection of heritage structures. She has published more than 112 research papers in International & National Journals and Conferences. She has guided 05 PhD and is presently guiding 08 Ph.D. students and has guided more than 120 M.Tech Dissertations. She is undertaking many consultancy works and is presently working as Co-PI in a prestigious project by National Disaster Management Authority on Development of Earthquake Disaster Risk Reduction Index in collaboration with MNIT Jaipur.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Pal S.**, Roshan P.,2023, 'Structural challenges for seismic stability of buildings in hilly areas', *Environmental Science and Pollution Research 30*, p 99100–99126, **Impact Factor 5.8**

Biography

VIJAY KAUSHIK

Department of Civil Engineering

Vijay Kaushik is a doctoral candidate in the Civil Engineering Department of Delhi Technological University, Delhi. He is doing research in the field of river hydraulics under the supervision of Prof. Munendra Kumar. His focus is on studying the impact of sediment transport on flow characteristics in non prismatic compound channels. This research has practical applications in the design of flood control and diversion structures. He received his M.Tech degree in Hydraulics and Water Resources Engineering from Delhi Technological University, where he was awarded the Vice-Chancellor's Gold Medal. He graduated with a B.Tech degree in Civil Engineering from Galgotias University. He has disseminated his research findings by publishing articles in internationally recognized journals and conference proceedings. He is primarily interested in river hydraulics, sediment transport, hydraulic structures, flow monitoring, and computational modeling.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. Kumar M., **Kaushik V.**, 2023, 'Sustainable gene expression programming model for shear stress prediction in non prismatic compound channels', *Sustainable Energy Technologies and Assessments* 57, p 103229, **Impact Factor 8**

Department of
Computer Science Engineering

Biography

ADITI SHARMA

Department of Computer Science Engineering

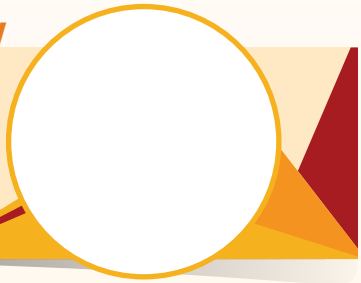
Dr. Aditi Sharma is currently working as an Assistant Professor at Thapar Institute of Engineering and Technology, Patiala. Prior to this Dr. Sharma was associated with Jaypee University and DIT university as Assistant Professor. She has more than 5 years of teaching experience. She has received her M.Tech. and Ph.D. degree from Delhi Technological University in 2017 and 2023 respectively and her Bachelor's in Technology from Punjabi University in 2015. She is a member of many professional bodies such as IEEE, ACM, CSI, IAENG. She has authored many papers in reputed SCI journals. She has been recipient of Research Excellence awards for years 2022 and 2023. Her research interests include Affective Computing, Natural Language Processing, and Machine Learning.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Sharma A.,** Kumar A., 2023, 'Real-time emotional health detection using fine-tuned transfer networks with multimodal fusion' *Neural Computing and Applications* Vol 35 Page no. 22935-22948 **Impact Factor 6**

Biography



AAKANSHA GUPTA

Department of Computer Science Engineering

Dr. Aakansha Gupta is a distinguished Data Science Mentor, Researcher, and Public Speaker known for her expertise in Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, and Data Science. She holds a Ph.D. in Computer Science & Engineering from Delhi Technological University (2022).

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Gupta A.**, Katarya R., 2023, 'Possibility of the COVID-19 third wave in India: mapping from second wave to third wave' *Indian Journal of Physics* Vol 97 Page no. 389–399 **Impact Factor 2**

Biography

AASTHA MAHESHWARI

Department of Computer Science Engineering

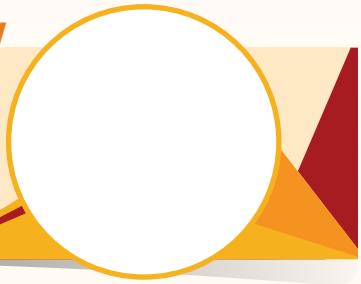
Aastha Maheshwari working as Assistant Professor in Jaypee institute of information technology, Noida . She obtained her Master's degree from NIT Hamirpur and is currently pursuing PhD in Computer Science and Engineering Department from Delhi Technological University, Delhi. Her specializations are Internet of Things, sensor network and wireless communication.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Nath P., **Maheshwari A.**, Yadav R. K.,2023, 'Congestion Aware Data Transmission in Mobile and Constrained IoT Network' *Wireless Personal Communications* Vol 130 Page no. 2121-2136 **Impact Factor 2.2**

Biography



ARUNA BHAT

Department of Computer Science Engineering

Aruna Bhat is an Associate Professor at the Department of Computer Science and Engineering.

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.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Agarwal S., **Bhat A.,** 2023, 'A survey on recent developments in diabetic retinopathy detection through integration of deep learning' *Multimedia Tools and Applications* Vol 82 Page no. 17321–17351 **Impact Factor 3.6**

Biography

ANKUR

Department of Computer Science Engineering

Ankur received the M. Tech. degree from the National Institute of Technology, Jalandhar, India, in 2013. He is currently pursuing the Ph.D. degree from Delhi Technological University, Delhi, India. His research interests include image processing, steganography and data hiding in encrypted domain.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Ankur,** Sharma A.K., Kumar R.,2023,'High capacity reversible data hiding with contiguous space in encrypted images' *Computers and Electrical Engineering* Vol 112 Page no. 109017 **Impact Factor 4.3**

Biography

ANIL SINGH PARIHAR

Department of Computer Science Engineering

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.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. Java A. **Parihar A.S.,**'Densely connected convolutional transformer for single image dehazing' *Journal of Visual Communication and Image Representation* Vol 90 Page no. 103722 **Impact Factor 2.6**

2. Singh K., 2023, 'DSE-Net: Deep simultaneous estimation network for low-light image enhancement' *Journal of Visual Communication and Image Representation* Vol 91 Page no. 103780 **Impact Factor 2.6**

Biography

ANSHU MALHOTRA

Department of Computer Science Engineering

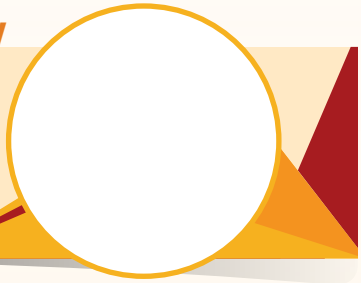
Anshu Malhotra received her B.Tech. degree in Computer Science Engineering from GGSIPU University, Delhi and M.Tech. degree in Computer Science Engineering from IIIT – Delhi. She is pursuing PhD in Computer Science Engineering from Delhi Technological University (formerly Delhi College of Engineering), India. Her research areas include deep learning, NLP, social network analysis, and social computing systems. She has previously authored many research publications in highly-respected journals and conferences. She has a work experience of around 12 years spanning across academia, research & industry.

Award Summary & Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Malhotra A.**, Jindal R.,2023, 'XAI Transformer based Approach for Interpreting Depressed and Suicidal User Behavior on Online Social Networks' *Cognitive Systems Research* Vol 84 Page no. 101186 **Impact Factor 3.9**

Biography



AMRITA SISODIA

Department of Computer Science Engineering

Amrita Sisodia received her PhD degree from Delhi Technological University where she was working as Teaching Cum Research Fellow (TRF) since 2017-2023. She received her master's degree in Information Technology in 2016 from Guru Gobind Singh Indraprastha University, Delhi. Presently, she is working as a guest faculty in DTU. She has published research articles in peer-reviewed international journals. In addition to this, she has also published one book chapter and articles in international conference proceedings.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Jindal R., **Sisodia A.,** 1 July 2023, 'An effective model for healthcare to process chronic kidney disease using big data processing' *Journal of Ambient Intelligence and Humanized Computing* Vol 14 **Impact Factor 6.16**

Biography

DEEPAK KUMAR MISHRA

Department of Computer Science Engineering

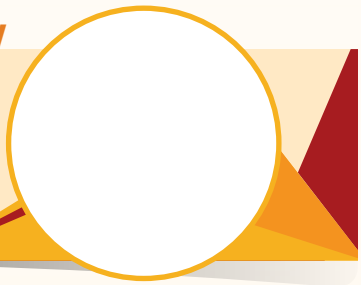
Deepak kumar Mishra received his B.Tech in information technology in 2010 from SIT, Mathura and M.tech in computer science in 2016 from BBAU,lucknow. He is currently working as Assistant Professor in Delhi University. he is pursuing part time PhD from DTU, Delhi. His research interests include blockchain technology and network.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Gami B., Agrawal M., **Mishra D.K.**, Quasim D., Mehra P.S.,2023,'Artificial intelligence-based blockchain solutions for intelligent healthcare: A comprehensive review on privacy preserving techniques' *Transactions on Emerging Telecommunication Technologies* Vol 34 Page no. 9 **Impact Factor 3.6**

Biography



DIPIKA JAIN

Department of Computer Science and Engineering

Dipika Jain has completed her B.Tech and M.Tech in the field of Computer Science and Engineering from MDU Rohtak. She has served as guest faculty at Netaji Subhas University of Technology, Dwarka, New Delhi for three years. Thereafter in January 2021, she joined Department of Computer Science and Engineering, DTU as a full-time research scholar under the supervision of Dr. Akshi Kumar and Dr. Rohit Beniwal.

Award Summary and Publication Details

Category Detail	No .of Publications
Commendable Research Award	01

1. Kumar A., Beniwal R., & **Jain D.** 2023. Personality detection using kernel-based ensemble model for leveraging social psychology in online networks. *ACM Transactions on Asian and Low-Resource Language Information Processing*, *22*(5), 1-20. **Impact Factor: 2**

Biography

INDU SINGH

Department of Computer Science Engineering

Dr. Indu Singh is currently working as Assistant Professor in Computer Science Engineering Department at Delhi Technological University, Delhi, India. Singh has received her B.Tech in 2010 in Computer Science Engineering and M.Tech degree in Information Security from Ambedkar Institute of Advanced Communication Technologies & Research, Govt. of NCT Delhi in 2012. She has done Ph.D in Computer Science & Engineering(CSE) from Delhi Technological University(DTU, Delhi) with specialisation in Data Mining and Information Security in 2023. Her research interests include Database Systems, Data Mining, Information Security, Machine Learning, Fuzzy systems, Biometrics and Metaheuristic Optimization. She has published 33 research papers in reputed International Journals and conferences of IEEE, Elsevier, Springer and ACM. She has received IEEE Best Paper Award in ICACCI-2016. Singh is also serving as a reviewer for various SCI Indexed Journals including Computers in Biology and Medicine (Elsevier), Computers and Electrical Engineering (Elsevier), Soft Computing Journal (Springer), Journal of Ambient Intelligence and humanized computing (Springer), Cluster Computing Journal (Springer) and various International Conferences of Elsevier, Springer and IEEE. She is also a member of IEEE.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. Jindal R., **Singh I.**, 2023, 'Trust factor-based analysis of user behavior using sequential pattern mining for detecting intrusive transactions in databases' *The Journal of Supercomputing* Vol 79 Page no. 11101-11133 2023 **Impact Factor 3.3**

2. **Singh I.,** Srinivasa K.G., Aggarwal A., Gunwant H., Maurya M., Sheokand H., Dhalwal M., 2023, 'Hybrid ABC and black hole algorithm with genetic operators optimized SVM ensemble based diagnosis of breast cancer' *Pattern Analysis and Applications* Vol 26 Page no. 1771-1791 **Impact Factor 3.9**

Biography

IRFAN ALAM

Department of Computer Science Engineering

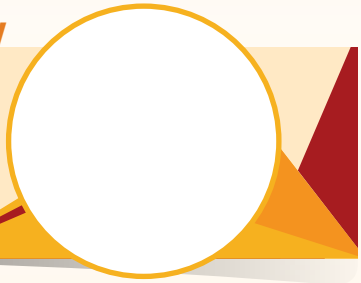
Irfan Alam received M.Tech degree in Information Technology from the School of Computer and Information Science,University of Hyderabad, Hyderabad, India, in 2019. He is pursuing PhD in Computer Science and Engineering at Department of Computer Science and Engineering, Delhi Technological University, New Delhi, India. His current research interests include Cryptography, Cyber Security and Networks. He is a life-time member of Cryptology Society of India. He has published many research papers including two SCIE indexed paper.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Alam I.**, Kumar M., 2023, 'A novel authentication protocol to ensure confidentiality among the Internet of Medical Things in covid-19 and future pandemic scenario' *Internet of Things* Vol 22 Page no. 100797 **Impact Factor 5.9**

Biography



KIRTI JAIN

Department of Computer Science Engineering

Kirti Jain is a part time 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 8 years in academics and 1.5 years in industry. Her major areas of interest are Machine Learning / Deep Learning.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Jindal R., **Jain K.,** 2023, 'Sampling and noise filtering methods for recommender systems: A literature review' *Engineering Applications of Artificial Intelligence* Vol 122 Page no. 106129 (1-16) **Impact Factor 8**

Biography

MANISHA SAINI

Department of Computer Science & Engineering

Manisha Saini is Ph.D. in Computer Science and Engineering Department from Delhi Technological University, Delhi, India. Her research interests include Computer Vision, Neural Networks, Machine Learning, and Deep Learning. She has eight years of combined academic and industrial experience. She is currently working as Artificial Intelligence Researcher prior to that she was working as Artificial Intelligence Research Engineer and Senior Computer Vision Engineer for early-stage tech startups. Previously, she had worked as an Assistant Professor in the Department of Computer Science and Engineering at Manav Rachna International Institute of Research and Studies, Faridabad, Haryana, India; after serving as an Assistant Professor at the Department of Computer Science and Engineering, G D Goenka University, Gurgaon, Haryana, India.

Award Summary and Publications Details

Category Name	No .of Publications
Premier Research Award	1
Commendable Research Award	1

1. **Saini M.**, & Susan S. 2022. "Vggin-net: Deep transfer network for imbalanced breast cancer dataset. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, *20*(1), 752-762. **Impact Factor: 4.5**
2. Susan S., **Saini M.,** 2023, 'Tackling class imbalance in computer vision: a contemporary review' *Artificial Intelligence Review* Vol 56 Page no. 1279-1335 **Impact Factor 12.**

Biography

NISHANT SINGH

Department of Computer Science Engineering

Mr. Nishant Singh is currently pursuing a Ph.D. in the Department of Computer Science and Engineering from Delhi Technological University, Delhi. His Research interests include Image Processing, Neural Networks, Machine Learning, Computer Vision, and Deep Learning. He has eleven years of total experience including academic and research experience.

He was working as an Assistant Professor in the Department of Computer Engineering and Application, Institute of Engineering and Technology (IET) at GLA University, Mathura, Uttar Pradesh, India. Previously, he had worked as an Assistant Professor in the Department of Computer Science and Engineering at Poornima Institute of Engineering and Technology (PIET), Jaipur, Rajasthan, India. Before that, he had worked as an Assistant Professor in the Department of Computer Science and Engineering at Shree Digamber Institute of Technology (SDIT), Dausa, Rajasthan, India.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Bhat A. **Singh N.,** 2023, 'A systematic review of the methodologies for the processing and enhancement of the underwater images' *Multimedia Tools and Applications* Vol no. 82 Pg. no. 38371–38396 **Impact Factor 3.6**

Biography

POOJA MITHOO

Department of Computer Science Engineering

Pooja Mithoo received M.Tech degree in CSE from Delhi Technological University. She is pursuing PhD in Computer Science and Engineering at Department of Computer Science and Engineering, Delhi Technological University, New Delhi, India. Her current research interests include Data mining, Cyber Security and Networks. She has papers published in SCI and Scopus indexed journals.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Kumar M., **Mithoo P.,** 2023, 'Social network analysis for crime rate detection using Spizella swarm optimization based BiLSTM classifier' *knowledge-based-systems* Vol 269 Page no. 110450 **Impact Factor 8.8**

Biography

PALLAVI RANJAN

Department of Computer Science Engineering

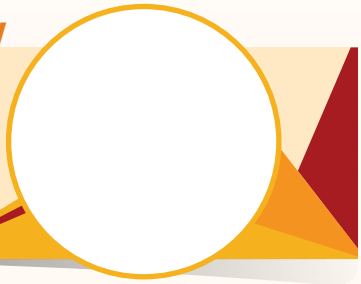
Pallavi is an accomplished professional and educator in the field of Information Technology, with nearly twelve years of experience in academia. Teaching is a part of her DNA, and her true passion in life lies in educating and nurturing the next generation. She firmly believes in the profound impact of working with the human mind, connecting with individuals who possess hearts and souls.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Girdhar A., **Ranjan P.,** 2023, 'Deep Siamese Network with Handcrafted Feature Extraction for Hyperspectral Image Classification Image Classification' *Multimedia Tools and Applications* Vol 83 Page no. 2501–2526 **Impact Factor 3.6**

Biography



PAWAN SINGH MEHRA

Department of Computer Science Engineering

Pawan Singh Mehra (Senior Member, IEEE) is currently working as an Assistant Professor at Delhi Technological University, New Delhi. He received his Ph.D. degree in Computer Engineering from Jamia Millia Islamia and M.Tech (Hons) in Computer Science and Engineering from Center for Development of Advanced Computing(CDAC). He completed Bachelor of Engineering from RJIT, Gwalior. He has approx. 14 years of Teaching and Research Experience. He has qualified for UGC-NET and GATE multiple times. He has authored more than 50 publications in International journals and conferences indexed in SCIE, Scopus, ESCI, Web of Science. Currently, his H-index is more than 16 and i-10 index is more than 25 with more than 850 citations. He is an active reviewer in International Journals indexed in IEEE/ACM Transactions, SCIE & Scopus. He was awarded the Research Excellence Award in 2022 and 2023. He is a Senior Member of IEEE, ACM and a Life member of CSI and ISTE. He has published two books on the Internet of Things and edited a book for GATE.

His research interests include Wireless Sensor Networks, Internet of Things, Image processing, Cryptography and Network security, Quantum Computing and Cryptography, Blockchain, and Artificial Intelligence.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Chawla D., **Mehra P.S.,** 2023, 'QSMAH: A novel quantum-based secure cryptosystem using mutual authentication for healthcare in the internet of things' Vol 24 Page no. 100949 **Impact Factor 5.9**

Biography

RAHUL KATARYA

Department of Computer Science Engineering

Rahul Katarya is working in the Department of Computer Science & Engineering, at Delhi Technological University (DTU) (formerly Delhi College of Engineering), New Delhi, India. He was selected World's top 2% Scientist in the year 2020, 2021 and 2022 by Stanford University, USA in the Science-Metrix category (Artificial Intelligence & Image Processing). He is the officer-in-charge of the "Big Data Analytics and Web Intelligence" (BDAWI) Laboratory, and the CALIBRE research group is associated with this laboratory. His research interests are Big Data Analytics, Data Science, Web Mining, Social Networks, Recommender Systems, Artificial Intelligence, Machine Learning, Web Personalization, Deep Learning, Knowledge Discovery & Management, Computational Intelligence, Climate change, healthcare and Online Human Behaviour Analysis etc. He is a valued Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) and a Life Member of the Computer Society of India (CSI). He is a reviewer of various IEEE Transactions, Elsevier and Springer journals. He has published various research articles in Science Citation Index (SCI) indexed international journals and in IEEE international conferences. Delhi Technological University awarded him the ``Commendable Research Award" for excellence in research for the years 2017- 2022. He has delivered various expert talks in Russia, Japan, the USA and New Zealand on Big Data analytics, Artificial Intelligence, Healthcare, Climate change and Data Mining. Prof. Rahul Katarya was Elected as a Member of the Asia-Pacific Artificial Intelligence Association (AAIA) on May 23, 2022. Prof. Rahul Katarya was selected as a young scientist in International Cooperation Division, Department of Science & Technology (DST), Govt. of India, 5th BRICS Young Scientists Conclave-2020 Chelyabinsk, Russia of the theme "BRICS Partnership of Young Scientists and Innovators for Science Progress and Innovative growth" September 21-25, 2020 Chelyabinsk, Russia. Prof. Rahul Katarya was also selected & invited by Japan Science & Technology (JST) for the special invitation program designed for young Indian officers and researchers under the framework of the Japan-Asia Youth Exchange program in SAKURA SCIENCE Exchange Program, Japan from 26 to February 1, 2020, administered by Japan Science & Technology Agency, Tokyo, Japan. Prof. Rahul Katarya (Only team from India, with two DTU undergraduate students) was selected, participated and contributed in Otago Polytechnic, New Zealand and Untouched World Foundation Engineering Waterwise Programme in Central Otago, New Zealand from 17 March to 6 April 2019. This Programme is a part of the UNESCO Global Action Programme based on youth leadership, international citizenship, sustainable development, and quality education, and is a partnership between Otago Polytechnic and the Untouched World Foundation, with support from Education New Zealand.

Award Summary & Publications Details

Citation Awards	
Cumulative Citation Award) Silver)	
Yearly Citation Award) Early Research Impact and Influence Award(	
Category Name	**No .of Publications**
Premier Research Award	1
Commendable Research Award	3

Topics-:

1. **Katarya R.** Jan 2023, 'Towards the significance of taxi recommendation systems in smart cities.' *Concurrency and Computation: Practice and Experience* , Vol no. 35 22 **Impact Factor 2**

2. Gupta A., **Katarya R.,** Jan 2023, 'A deep-SIQRV epidemic model for COVID-19 to access the impact of prevention and control measures.' *Computational Biology and Chemistry*, Vol no. 107 10 **Impact Factor 3.1**

3. Gupta G. ,**Katarya R.,** Jan 2023, 'A novel approach to alleviate data sparsity and generate dynamic fruit recommendations from point-of-sale data' *Concurrency and Computation: Practice and Experience*, Vol no. 35 11 **Impact Factor 2**

4. Jain L., Katarya R., & Sachdeva S. 2023. "Opinion leaders for information diffusion using graph neural networks in online social networks". *ACM Transactions on the Web*, *17*(2), 1-37. **Impact Factor: 3.5**

Biography

RAJEEV KUMAR

Department of Computer Science Engineering

Rajeev Kumar earned his Ph.D. in Computer Engineering from the University of Delhi, India, in 2017. Following this, he completed a Post-Doctorate at Kyungil University, South Korea. Presently, he holds the position of Assistant Professor in the Department of Computer Science and Engineering at Delhi Technological University, Delhi, India. Recognized for his expertise, Dr. Kumar was honored with a fellowship from the National Research Foundation (NRF), Korea, spanning the periods of 2018-2019 and 2021-2024. This fellowship supported his work on projects within the realm of multimedia security. Notably, he received Commendable Research Excellence Awards from Delhi Technological University in both 2021 and 2022. Dr. Kumar actively contributes to the scholarly community. He serves as an Associate Editor for the Journal of Information Security and Applications (JISAs) published by Elsevier, and Journal of Electronic Imaging (JEI) published by SPIE, SN Computer Science published by Springer, and as a Review Editor for the journal 'Frontiers in Signal Processing.' Additionally, he is editorial board member of the prestigious Scientific Reports, Nature. His research interests span a wide spectrum, including Privacy and security concerning neural networks, steganography, reversible data hiding, multimedia forensics, image processing, compression, hyperspectral image classification, and wireless sensor networks. His contributions to academia are evident through his extensive publication record and multiple patented inventions.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	4

1. Kumar N., Malik M., SinghS., Jung K.H., **Kumar R.,** 2023, 'Reversible data hiding with high visual quality using pairwise PVO and PEE' *Multimed Tools Appl* Vol 82 Page no. 30733–30758 **Impact Factor 3.6**

2. Malik A., **Kumar R.,** 2023, 'Multimedia information hiding method for AMBTC compressed images using LSB substitution technique' *Multimedia Tools and Applications* Vol 82 Page no. 8623-8642 **Impact Factor 3.6**

3. Sharma D., Dua A., Jung K.H., **Kumar R.,** 2023,'A review of different prediction methods for reversible data hiding' *Journal of Information Security and Applications* Vol 78 Page no. 103572 **Impact Factor 5.6**

4. Sharma D., Jung K.H., **Kumar R.,** 2023, 'A Bibliometric Analysis of Convergence of Artificial Intelligence and Blockchain for Edge of Things' *Journal of Grid Computing* Vol 21(4) Page no. 79 **Impact Factor 4.674**

Biography

RUCHI GOEL

Department of Computer Science Engineering

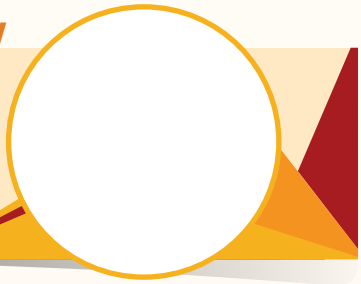
Ms. Ruchi Goel has done B.Tech in Computer Science and engineering in 2003 from MDU Rohtak and done master's degree in Computer science from Delhi College of Engineering in 2011. Currently pursuing Ph.D. in Computer Science Department from DTU (Formerly Delhi College of Engineering). 18+ years of teaching Experience. Area of interest includes Software Testing, Web Mining, Artificial Intelligence, and Computer Vision.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Shambharkar P.G., **Goel R.,** 2023, 'Auto encoder with mode-based learning for keyframe extraction in video summarization' *Expert Systems, Wiley* Vol 40 Page no. e13437 **Impact Factor 3.3**

Biography



RAJIV KUMAR MISHRA

Department of Computer Science Engineering

Rajiv Kumar Mishra is a PhD student in the Department of Computer Science, Delhi Technological University, Delhi. He received his M.Tech degree in Information Technology, in 2013, from YMCA University of Science & Technology, Faridabad and his B.Tech. degree in Computer Science & Engineering, in 2007, from AKTU, UP. He has served in teaching faculty for more than 9 years. His research interests include Data Security, Internet of Things, Blockchain Technology, and Information Retrieval.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. Nath P., **Mishra R.K.**, Yadav R.K.,2023, 'Blockchain DrivenAccess control architecture for the internet of things' *Multimedia Tools and Applications* Vol 82 Page no. 31397–31421 **Impact Factor 3.6**

2. Nath P., **Mishra R.K.**, Yadav R.K.,2023, 'Secure IoT data management and sharing architecture for information security using cryptographic technique' *Journal of Intelligent & Fuzzy Systems* Vol 45 Page no. 10951-10966 **Impact Factor 2**

Biography

RASHMI MISHRA

Department of Computer Science Engineering

Rashmi Mishra is an accomplished and charismatic professional with a diverse skill set and a wealth of experience spanning 14 years. With expertise in academics, research, and development, she has made significant contributions to the field. She is pursuing her Ph.D. from Delhi Technological University, New Delhi, where she focused on the crucial area of Wireless Sensor Networks. Prior to that, Rashmi earned her M.Tech degree in Information Security from Indraprastha University, New Delhi. Rashmi's dedication to professional growth is evident through her CCNA Certification, which highlights her expertise in Computer Networks, Cloud Computing, Wireless Sensor Networks, Cyber Security, and Information Security. Her comprehensive understanding of these domains allows her to tackle complex challenges with ease. In addition to her academic achievements, she has made significant contributions to the research community. She has authored over 50 research papers published in renowned SCI and other international/national journals, demonstrating her ability to produce impactful work and contribute to the advancement of her field.

Award Summary & Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Yadav R.K., **Mishra R.,** 2023, 'Energy Efficient Cluster-Based Routing Protocol for WSN Using Nature Inspired Algorithm' *Wireless Personal Communication* Vol 130 Page no. 2407–2440 2023 **Impact Factor 2.2**

Biography

SANJAY KUMAR

Department of Computer Science Engineering

Dr. Sanjay Kumar is an assistant professor in the Dept. of Computer Science and Engineering, at Delhi Technological University. He earned a Ph.D. in Computer Applications from the Indian Institute of Technology (IIT) Delhi. He has completed MTech in Computer Application from the Indian Institute of Technology (IIT) Delhi, India.

Previously, he worked with the National Informatics Centre, Govt. of India as Scientist-B. His research interests include AI, Machine Learning, AI, Social Network Analysis, Optimization Techniques, NLP, and Design and Analysis of Algorithms. He has published numerous articles and proceeding papers in reputed journals and conferences. Notably, more than 25 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 the "Commendable Research Award for Excellence in Research" awarded by DTU for the last three consecutive years, namely, 2020, 2021, and 2022. In addition to his research contributions, Dr. Kumar actively participates in the academic community as a reviewer for various journals associated with renowned publishers like Springer and Elsevier. His name appeared among the top 2% of influential scientists and researchers globally for the year 2022 in the domain of "Artificial Intelligence and Image Processing" as per the list released by the prestigious Stanford University and Elsevier.

Award Summary and Publications Details

Category Name	No .of Publications
Premier Research Award	2
Commendable Research Award	3

1. **Kumar S.**, Kumar A., & Panda B. S. 2022, "Identifying influential nodes for smart enterprises using community structure with Integrated Feature Ranking". *IEEE Transactions on Industrial Informatics*, *19*(1), 703-711. **Impact Factor:12.3**

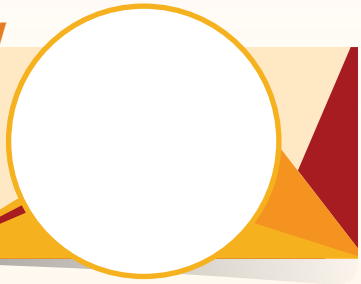
2. **Kumar S.**, Kumar A., Mallik A., & Dhall S. 2023," Opinion leader detection in Asian social networks using modified spider monkey optimization". *ACM Transactions on Asian and Low-Resource Language Information Processing*, *22*(5), 1-26. **Impact Factor: 2**

3. Sengar S.S., **Kumar S.**, Mallik A., 2023, 'Community detection in complex networks using stacked autoencoders and crow search algorithm' *The Journal of Supercomputing* Vol 79 Page no. 3329–3356 **Impact Factor 3.3**

4. Kumar A., **Kumar S.**, Aggarwal N., 2023, 'SIRA: a model for propagation and rumor control with epidemic spreading and immunization for healthcare 5.0' *Soft Computing* Vol 27 Page no. 4307–4320 **Impact Factor 4.1**

5. Panda B.S., **Kumar S.**, Mallik A., 2023, 'Influence maximization in social networks using transfer learning via graph-based LSTM' *Expert Systems with Applications* Vol 212 Page no. 118770 **Impact Factor 8.5**

Biography



SHANU BHARDWAJ

Department of Computer Science Engineering

I am a dedicated individual who completed Bachelor's (B.Tech) and Master's (M.Tech) degree from Kurukshetra University, demonstrating a strong academic foundation. Currently, I am pursuing a Ph.D. in the field of Computer Science and Engineering at DTU (Delhi Technological University). Under the expert guidance of Professor Shailender Kumar, my research focuses on the specialized area of Software Defined Networking (SDN). Through this educational trajectory, I aspire to make meaningful contributions to the field of SDN, fostering advancements that can positively impact the future of computer networks.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Girdhar A., **Bhardwaj S.**, 2023, 'Network Traffic Analysis in Software-Defined Networking Using RYU Controller' *Wireless Personal Communications* Vol 132 Page no. 1797–1818 **Impact Factor 2.2**

Biography

SHAILENDER KUMAR

Department of Computer Science Engineering

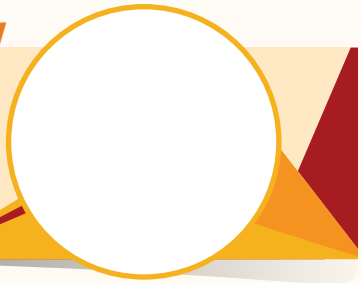
Prof. (Dr.) Shailender Kumar is working as Professor at Delhi Technological University, Delhi, India. He has more than 22 years of teaching experience at various esteemed Engineering Colleges like Delhi College of Engineering, Netaji Subhas Institute of Technology, Ambedkar Institute of Advanced Communication Technologies and Research etc. He has published more than 100 research papers in various reputed International Journals and Conferences.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Kumar R., **Kumar S.,** 2023, 'Multi-view Multi-modal Approach Based on 5S-CNN and BiLSTM Using Skeleton, Depth and RGB Data for Human Activity Recognition '*Wireless Personal Communication* Vol 130 Page no. 1141-59 **Impact Factor 2.2**

Biography



TEJNA KHOSLA

Department of Computer Science Engineering

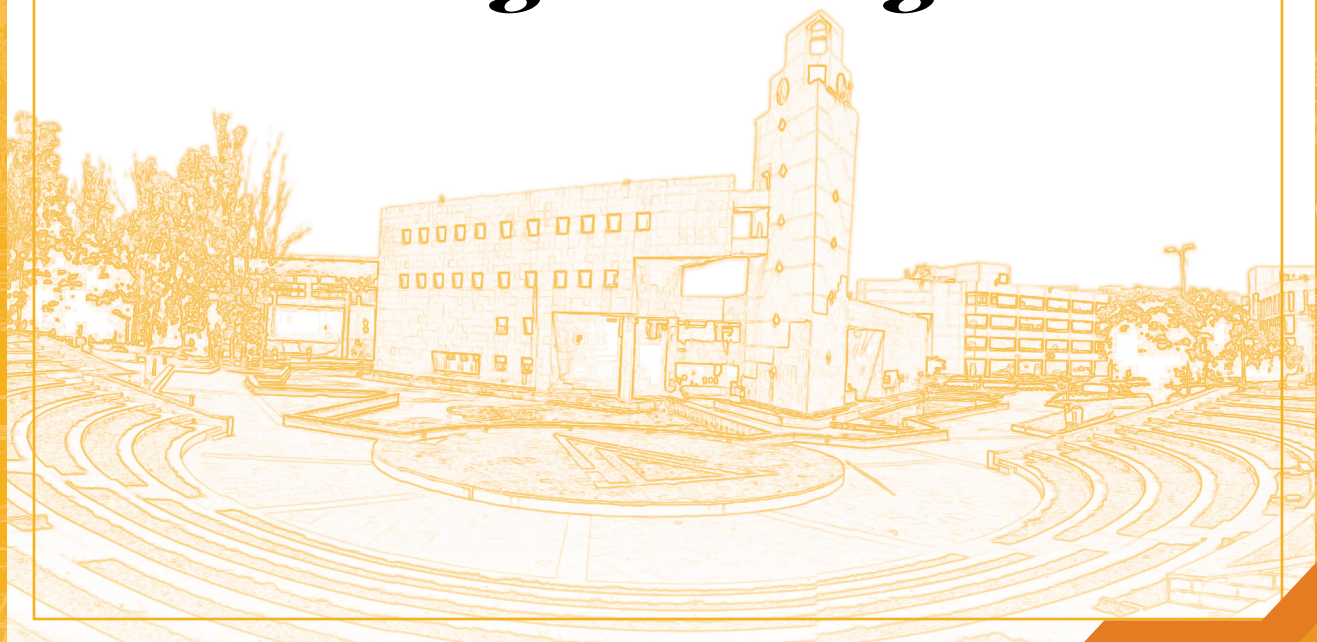
Tejna Khosla received her B. Tech Degree in Computer Science and Engineering in 2010 from Indraprastha University (Guru Tegh Bahadur Institute of Technology College) and her Master of Engineering degree in Information Technology from Delhi Technological University, New Delhi, India, in 2014. She is an Assistant Professor (IT) at Maharaja Agrasen Institute of Technology, New Delhi, India. Currently, she is pursuing PhD in Computer Science and Engineering from Delhi Technological University. Her research interests include Evolutionary Algorithms, Swarm intelligence algorithms, Neural networks, and Image Processing.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Verma O.P., **Khosla T.,** 2023 'An adaptive rejuvenation of bacterial foraging algorithm for global optimization' *Multimedia Tools and Applications* Vol 82 Page no. 1965–1993 **Impact Factor 3.6**
2. Need to add the detail of Jatin Sharma and Deeksha Chawla as mentioned in provided excel sheet at serial no. 21 and 22 respectively.

Department of Environmental Engineering



Biography

ALI REZA NOORI

Department of Environmental Engineering

Ali Reza Noori, born in 1986 in Ghazni Province of Afghanistan, is an accomplished individual in engineering. He completed his primary and secondary education at Shinade High School in Malistran District. Ali's passion for engineering led him to pursue a Bachelor's Degree in Water Supply and Environmental Engineering from Kabul Polytechnic University, which he successfully obtained in 2009.

Continuing his educational journey, Ali earned a Master's Degree from the Water Resources Engineering Institute of Architecture and Civil Engineering at Kazakh National Research and Technical University in Almaty, Kazakhstan, specializing in Engineering Systems and Networks. This achievement further solidified his expertise in the field.

Ali Reza Noori, a senior lecturer at Kabul Polytechnic University of Kabul, Afghanistan, contributes his knowledge and experience to the academic community. Additionally, he is pursuing a PhD in Environmental Engineering at Delhi Technological University, Delhi, India, having started this endeavour in August 2019. With his determination and dedication to his studies, Ali will make significant contributions to the field of engineering in the future.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Noori A.R.**, Singh S.K., 2023 'Rainfall Assessment and Water Harvesting Potential in an Urban Area for Artificial Groundwater Recharge with Land Use and Land Cover Approach', *Water Resources Management* 37, p5215–5234, **Impact Factor 4.2**

Biography

ANIL KUMAR HARITASH

Department of Environmental Engineering

Dr. A.K. Haritash is Professor and Head in the Department of Environmental Engineering, Delhi Technological University. He has about 17 years of teaching experience, and has around 22 years of research experience. His area of interest is environmental monitoring of Polycyclic Aromatic Hydrocarbons (PAHs), water quality assessment, wetland monitoring, Advanced Oxidation Processes (AOPs), and bioremediation. He has around 80 publications in the form of research papers, conference articles, and an edited book. His research on biodegradation of PAHs has been conferred the status of FAST BREAKING RESEARCH in Environmental Engineering by Thomson Reuters and ScienceWatch. Dr. Haritash has been conferred state level Outstanding Faculty Award for his contribution in academics and research. He is also the recipient of Research Excellence Award of DTU

consecutively for last 6 years. He has been on the panel of subject experts in Shastri Indo-Canadian Institute and TERI School of Advanced Studies etc. Dr. Haritash has participated in several national and international seminars, conferences, and workshops.

Award Summary and Publication Details

Citation Award	
Yearly Citation Award) Early Research Impact and Influence Award)	
Category Name	**No .of Publications**
Commendable Research Award	01

1. Radhakrishnan N., Taneja S., Ambastha S., Pipil H., **Haritash A.K.,** 2023,'Heavy metal profile, mobility, and source characterization in size- fractionated bed- sediments of River Ganga, India', *Marine Pollution Bulletin 188*, P114650, **Impact Factor 5.8**

Biography

DEEPALI GOYAL

Department of Environmental Engineering

Ms. Deepali Goyal is pursuing PhD from Department of Environmental Engineering, Delhi Technological University under the supervision of Prof. S.K. Singh and Prof. A.K. Haritash. Her research interests lie in the field of groundwater quality assessment, water footprint analysis, modelling and prediction studies. Her masters degree is in Water Science and Governance from TERI University and bachelors is in Food technology from Punjab Agricultural University. She is a JRF qualified scholarship holder under UGC NET in the subject of Environmental sciences. She has published two research papers and two book chapters in conference proceedings.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Goyal D.,** Haritash A.K., Singh S.K.,2023, 'Hydrogeochemical characterisation and geospatial analysis of groundwater for drinking water quality in Ludhiana district of Punjab, India', *Environmental monitoring and assessment 195*, article no. 653, **Impact Factor 3.1**

Biography

DEEPIKA

Department of Environmental Engineering

My name is Deepika. I did B.Sc. (Hons) in Botany from Ramjas College, University of Delhi, and followed it up with an M.Sc. in Environment Science & Technology from Central University of Punjab, Bathinda. During my academic journey, I qualified for exams such as UGC-NET JRF and ARS-NET in Environmental Science, along with GATE in Environmental Engineering. After my master's, I had the opportunity to work as a Senior Research Fellow (SRF) in a DST-funded project at IARI-Delhi for six months. Following that, I got admission in Delhi Technological University for my Ph.D., and I am working on "Phytoremediation of Metal-Contaminated Soil using Ornamental Metallophytes." I spent 2.5 years as a full-time Ph.D. scholar, during which I published two research papers in esteemed SCI and Scopus indexed journals and presented papers in two international conferences. Recently, I was fortunate to be selected as an Assistant officer (Environment Management) at NTPC. Due to this opportunity, I decided to convert my Ph.D. to part-time status while continuing my full-time job at NTPC.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Deepika** & Haritash A.K.,2023, 'Cadmium Uptake From Soil by Ornamental Metallophytes: A Meta-analytical Approach', *Environmental Management 71*, P1087–1097, **Impact Factor 3.5**

Biography

GARIMA

Department of Environmental Engineering

Ms. Garima was pursuing Ph.D. from the Department of Environmental Engineering, at Delhi Technological University under the supervision of Prof. S. K. Singh. Her research interests included River water management and remediation, wastewater treatment and sustainable development. She did MSc in Environmental Studies from the Department of Environmental Studies at the University of Delhi and has worked in the Delhi Pollution Control Committee as a trainee engineer. She has qualified NTA-UGC-NET in 2018 and 2022. She has published 3 research papers.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Singh S.K., **Garima**, 'Perspective: The unexplored dimensions behind the foam formation in River Yamuna, India', *Environmental Science and Pollution Research* 30, p90458–90470, **Impact Factor 5.8**

Biography

KANAGARAJ R.

Department of Environmental Engineering

Kanagaraj R has completed his undergraduate in Environmental Engineering from Anna university, and post-graduation in Green Energy Technology from UNESCO Madanjeet school of Green Energy Technology which is under central university of Pondicherry University. His research area includes air pollution, climate change, carbon emissions, urban aerosol emissions, and human health impact assessment due to air pollution and climate change.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Ramachandran S., Mishra R.K., **Kanagaraj.R.,** 2023,'Roadside measurements of nanoparticles and their dynamics in relation to traffic sources in Delhi: Impact of restrictions and pollution events', *Urban Climate* 51,p101625, **Impact Factor 6.4**

Biography

KULVENDRA PATEL

Department of Environmental Engineering

Mr. Kulvendra Patel is currently pursuing Ph.D. from Department of Environmental Engineering, Delhi Technological University under the supervision of Prof. S.K. Singh. His research interests include life cycle assessment, sustainable development, biofuels, wastewater treatment. He has received his master's degree in Environmental Engineering from Delhi Technological University with LCA as specialization. He has qualified GATE in 2018 and awarded scholarship from AICTE. He has published 4 research papers and 1 conference proceedings.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Singh S.K., **Patel K.**, 2023,'Environmental sustainability analysis of biofuels: a critical review of LCA studies', Clean Technologies and Environmental Policy 25, P2489–2510, **Impact Factor 4.3**

Biography

LOVLEEN GUPTA

Department of Environmental Engineering

Dr. Lovleen Gupta is an engineer with more than 20 years of experience in research, capacity building and outreach in varied field of environment. Before joining DTU, Dr. Gupta worked in the industry both in USA and India. She has worked in different segments of environment like air pollution, solid waste management, measuring greenhouse gas emissions, developing clean development mechanism (CDM) projects, human health risk assessment, to name a few. Dr. Gupta's research area includes: GHG inventorization, Environmental monitoring, Aerosol characterization and source apportionment, Climate Change. Her research has been published in high impact journals. Also, Dr. Gupta is a member of American Association of Aerosol Research (AAAR), Association of Environmental Engineering and Science Professors (AEESP), Indian Institution of Engineers (IoE).

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. Joshi S., Habib G., Raman RS., **Gupta L.**, 2023,'Characteristics and atmospheric processes of water-soluble ions in PM2.5 and PM10 over an industrial city in the National Capital Region (NCR) of India', *Atmospheric Environment* 312, p120020, **Impact Factor 5.755**

2. Bansal M., Nandi P., Habib G., Raman RS., **Gupta L.**, 2023, 'Source apportionment and potential source regions of size-resolved particulate matter at a heavily polluted industrial city in the Indo-Gangetic Plain', *Atmospheric Environment 298*, p119614, **Impact Factor 5.755**

Biography

NIBEDITA VERMA

Department of Environmental Engineering

I, Nibedita Verma, have completed B.E and M.E in Civil Engineering from Bangladesh University of Engineering and Technology, Dhaka, in the years 1994 and 1999, respectively. After graduating, I started work in the Local Government Engineering Department of Bangladesh, and in 1998, I joined the Civil Engineering Department of Shahjalal University of Science and Technology, Sylhet. I published one paper in 2000. My specialization was environmental engineering, and I have done research in arsenic removal from Groundwater. In the year 2000, I married an Indian and came to Delhi. After that, I worked at various educational institutes, including Civil Engineering at the Netaji Subhash University of Technology, west campus. In January 2020, I was admitted to the Department of Environmental Engineering of Delhi Technological University. In the meantime, I have published 3 SCI papers, completed 2 international conferences, and one more paper in Springer Nature which was SCI during the submission of the paper.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Ahsan N., Singh G., **Verma N.,** 2023,'Assessment of Spatiotemporal Variations in Water Quality of the Urban River Reach, Yamuna, Delhi', *Water Air and Soil Pollution* 234, p571(1-20), **Impact Factor 2.9**

Biography

RIKI SARMA

Department of Environmental Engineering

Ms. Riki Sarma is currently pursuing her Ph.D. degree in Department of Environmental Engineering at Delhi Technological University. Her research interests include studies on groundwater availability and contamination using numerical modelling and geospatial tools. She has received her Master's degree in Environmental Studies from TERI School of Advanced Studies, Delhi and Bachelor's degree in Chemistry (Hons.) from St. Stephen's College, University of Delhi. After completing her Master's, she gained industrial experience in Ambuja Cements Ltd. and research experience in Indian Agricultural Research Institute, Delhi and IOCL R&D, Faridabad. So far, she has published 3 research papers in SCI journals and presented her work in 3 international conferences.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Sarma R.**, Singh S. K.,2023, 'Assessment of groundwater quality and human health risks of nitrate and fluoride contamination in a rapidly urbanizing region of India', *Environmental Science and Pollution Research* 30, p55437–55454 , **Impact Factor 5.8**

Biography

SAKSHI

Department Of Environmental Engineering

Sakshi is a guest faculty (Assistant Professor) in the Department of Environmental Engineering, Delhi Technological University, Delhi. She received her Ph.D. on the topic "Deciphering bacterial catabolic genes for PAH-degradation" from Department of Environmental Engineering, Delhi Technological University, Delhi. She completed her Master in Technology in Bioinformatics from Department of Biotechnology, Delhi Technological University, Delhi and Bachelor of Technology in Biotechnology from Dr. B.R. Ambedkar National Institute of Technology, Jalandhar. She is GATE qualified and is a recipient of the MHRD fellowship. She had received DTU-fellowship during her Ph.D. She had presented research papers in 3 international conferences. She has 06 year experience of teaching. She has published 06 research papers in peer reviewed international SCI indexed journals.

Award Summary and Publication Details

Category Name	No. of Publications
Commendable Research Award	01

1. Singh S.K., Haritash A.K., **Sakshi**, 2023, 'Bacterial degradation of mixed-PAHs and expression of PAH-catabolic genes', *World Journal of Microbiology and Biotechnology* 39 (47), **Impact Factor 4.**

Biography

SHIVANI YADAV

Department Of Environmental Engineering

Miss. Shivani Yadav is a Research Scholar in the Department of Environmental Engineering. She is currently engaged in treatment of industrial effluent using advanced oxidation processes (AOPs). 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 and Publication Details

Category Name	No. of Publications
Commendable Research Award	02

1. Kumar S., **Yadav S.**, Haritash A.K., 2023 'A comprehensive review of chlorophenols: Fate, toxicology and its treatment', *Journal of Environmental Management* 342, 118254, **Impact Factor 8.7**
2. Kumar S., **Yadav S.**, Haritash A.K., 2023, "Solar light and ultrasound-assisted rapid Fenton's oxidation of 2,4,6-trichlorophenol: comparison, optimisation, and mineralisation", *Rendiconti Lincei. Scienze Fisiche e Naturali* 34, p1197–1207, **Impact Factor 2**

Biography

SONAM TANEJA

Department Of Environmental Engineering

I, Sonam Taneja, am a full-time Ph.D. scholar in the Department of Environmental Engineering. I did a master's in Environmental Sciences at J.C. Bose University of Science and Technology, YMCA, Faridabad, and a bachelor's in Life Science from Delhi University. Currently, I am working on the treatment of metal-polluted soils using the Electrokinetic Remediation technique as my Ph.D. topic. As a part of my research, I carried out some experimental work at Canakkale Onsekiz Mart University, Turkey, for one semester (Feb- June 2023), through the Semester Away Program offered by DTU. Considering my academic progress till now, two research articles have been published as primary author with IF>1 and co-authored two research articles. Along with this, I participated in two international conferences and published one book chapter.

Award Summary and Publication Details

Category Name	No. of Publications
Commendable Research Award	02

1. Karaca O., **Taneja S.**, Haritash A.K., 2023, 'Combined effects of high voltage gradient and electrolyte conditioning on electrokinetic remediation for chromium (VI)-contaminated soils', *Rendiconti Lincei. Scienze Fisiche e Naturali* 34, p635-646, **Impact Factor 2.**

2. Karaca O., **Taneja S.**, Haritash A.K., 2023, 'Treatment of Pb-contaminated soil by electrokinetics: Enhancements by varying voltage, chelant, and electrode material', *Journal of Geochemical Exploration* 250, p107240, **Impact Factor 3.9**

Biography

SWATILEKHA GHOSH

Department Of Environmental Engineering

Swatilekha Ghosh is a research scholar at Delhi Technological University and pursuing her Ph.D. in the Environmental Engineering Department. Her research interests include Increasing photovoltaic (PV) system reliability, PV waste reduction, and assessment and elimination of ecotoxicity of PV technologies.

Award Summary and Publication Details

Category Name	No. of Publications
Commendable Research Award	01

1. Singh S.K., Yadav V., **Ghosh S.**, 2023,'Experimental investigation of hotspot phenomenon in PV arrays under mismatch conditions', *Solar Energy* 253, p219-230, **Impact Factor 6.7**

Biography

TANYA ARORA

Department Of Environmental Engineering

Tanya, an advocate for environmental justice, holds a bachelor's degree in Environmental Engineering from DTU and is currently dedicated to advancing her expertise by pursuing an MS in Environmental Engineering at Stanford University, with a focus on Human Health and Environment. She is deeply committed to addressing the complex challenges posed by pollution, poverty, and inequality by contributing to projects at the intersection of environment, sustainability, and governance.

Her research and experiences have allowed her to gain profound insights into emissions accounting, adaptive action plans, net-zero targets, and sustainability management.

Looking ahead, she is determined to delve into the obstacles hindering the effective implementation of environmental policies and guiding the transformation to sustainable and resilient communities by exploring the practical applications of life cycle assessment, environmental justice, and circular economy principles.

Award Summary and Publication Details

Category Name	No. of Publications
Commendable Research Award	01

1. **Arora T.**, Reddy C.S., Sharma R., Kilaparthi S.D., Gupta L.,2023, 'Greenhouse gas emissions of Delhi, India: A trend analysis of sources and sinks for 2017–2021', *Urban Climate* 51, p101634, **Impact Factor 6.4**

Delhi School of Management

Biography

MOHIT BENIWAL

Delhi School Of Management

Dr. Mohit Beniwal has a Bachelor of Engineering from Netaji Subhas University of Technology (NSUT), formerly Netaji Subhas Institute of Technology (NSIT, Delhi University). He did his MBA and Masters in Information Systems from the College of Business, Iowa State University, Ames, Iowa, USA. He has vast work experience from companies like HCL Technologies, Coforge (formally NIIT Technologies), Accenture USA, and YesMail in San Francisco, USA. He completed his PhD from DSM, DTU. His interest areas are Fundamental Analysis of Companies, Equity Research, Technical Analysis, Financial Analytics using Artificial Intelligence and Machine Learning, and Predictive AI using programming languages such as Python and R.

Award Summary and Publication Details

Category Name	No. of Publications
Commendable Research Award	01

1. **Beniwal M.**, Singh A., Kumar N.,2023, 'Forecasting long-term stock prices of global indices: A forward-validating Genetic Algorithm optimization approach for Support Vector Regression' , *Applied Soft Computing* 145, 110566, **Impact Factor 8.7**

Biography

SAURABH AGRAWAL

Delhi School Of Management

Dr. Saurabh Agrawal, presently works as an Associate Professor and Head of Department in Delhi School of Management at Delhi Technological University, Delhi, India. He has vast experience of academics, research and the industry both in India and in USA. He has worked in V.Tech. Communications, OR, USA, and Wiquest Communications, TX, USA as supply chain analyst. His research focus is in the areas of supply chain management, reverse supply chain, sustainability and e-waste management. He has published research papers in international journal of repute including Business Strategy and the Environment, Resource Policy, Resource, Conservation, and Recycling; Journal of Industrial Engineering, International; Journal of advances in Management Research; Journal of Modelling in Management ;and Competitiveness Review: An International Business Journal.

Award Summary and Publication Details

Citation Award	
Yearly Citation Award (Early Research Impact and Influence Award)	
Category Name	**No. of Publications**
Commendable Research Award	01

1. Singh R.K., **Agrawal S.**, Kumar D., Singh R.K.,2023, Business Strategy and the Environment 32(4), 1680-1697, 2023, **Impact Factor 13.4.**

Biography

VAISHALI KAUSHAL

Delhi School of Management

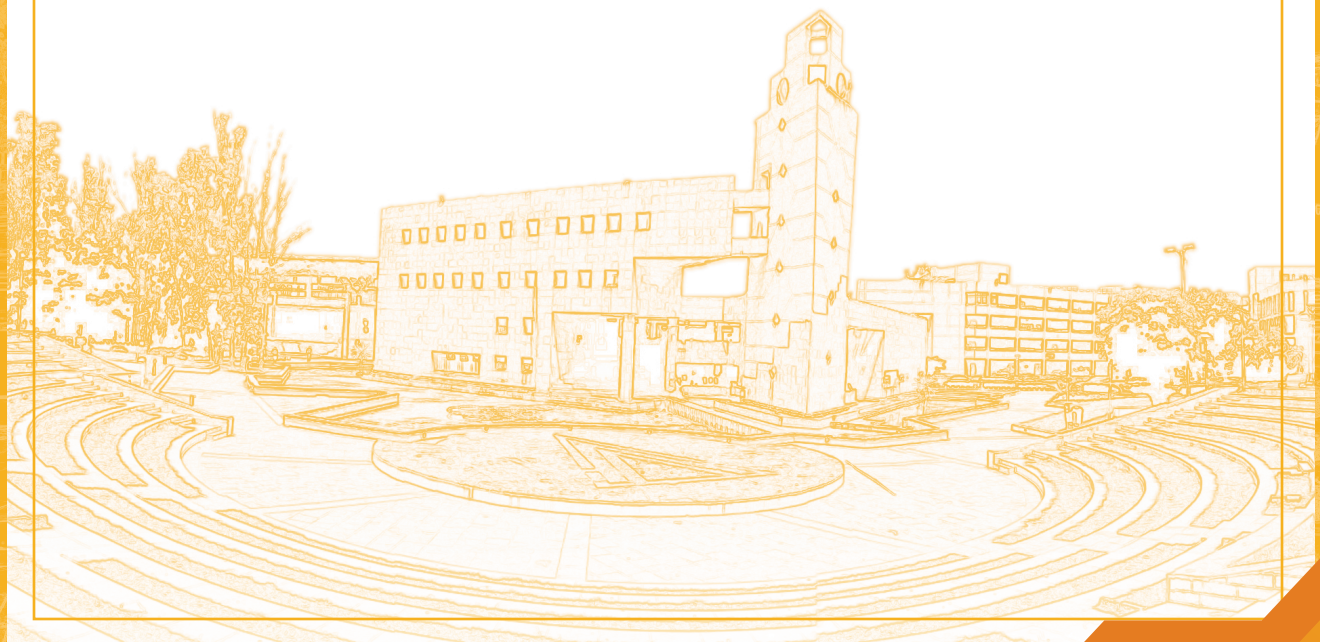
Vaishali Kaushal is a skilled researcher, academician, and consultant who is passionate about consumer behavior, luxury marketing, digital transformation, and development sector. She is currently working as Deputy General Manager in Purple Audacity, a market research and insights firm. She has over seven years of corporate, research, and academic experience where she has undertaken various studies pertinent to mix methodology, repositioning, new product development. She has successfully published research papers in prestigious international journals, written book chapters, and presented her work at numerous international conferences. Her research papers have received "best paper" awards at various international conferences. She is a Ph.D. from Delhi Technological University (formerly known as the DCE) in the customer experience domain. Prior to this, she holds double master's degree: a PGDM from the Lal Bahadur Shastri Institute of Management and an M.Sc. (Hons.) in mathematics from Panjab University. She received her bachelor's degree in mathematics and computing with distinction from Panjab University, Chandigarh.

Award Summary and Publication Details

Category Name	No. of Publications
Commendable Research Award	01

1. **Kaushal V.**, Yadav R. 2023, 'Learning successful implementation of Chatbots in businesses from B2B customer experience perspective', *Concurrency And Computation Practice And Experience* 35, e7450, **Impact Factor 2.**

Department of
Electrical Engineering



Biography

ABHISHEK CHAUDHARY

Department of Electrical Engineering

Abhishek Chaudhary is Assistant Professor at the Department of Electrical Engineering, Delhi Technological University, New Delhi, India. He is IEEE member. He has received Bachelor of Engineering degree in Instrumentation and Control Engineering from Netaji Subhas Institute of Technology, University of Delhi, New Delhi, India and M.Tech. degree in Control and Instrumentation from Department of Electrical Engineering, Delhi Technological University, New Delhi, India. He has publications in peer-reviewed journals and presented his research articles in International conferences. His area of interest is intelligent control, control system, optimal control, optimization algorithms and their applications in unmanned vehicles.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Choudhary A**, Bhushan B.,2023, An improved teaching learning based optimization method to enrich the flight control of a helicopter system, *Sadhana* 48, p 222, **Impact Factor 1.6**

Biography

AJISHEK RAJ

Department of Electrical Engineering

Ajishek Raj received his B.Tech degree in Electrical and Electronics Engineering from Dr. M.G.R. Educational and Research Institute, Chennai in 2012 and his M. Tech and Ph.D.degree from Delhi Technological University, Delhi in 2016 and 2021 respectively. Currently, he is working as assistant professor in Electrical Engineering Department, National Institute of Technology, Patna. His research interests are in the area of Analog Circuit designs like Sinusoidal Oscillator Circuit design (low and high frequency generation both), Active Filter Circuit Design, Non-linear Analog Circuit design employing minimal employment of active block (i.e., Analog Multiplier, Divider and Square Root Circuit) and Inverse analog filters. He has published 25 research articles in SCI-indexed and Scopus-indexed international journals and 06 research articles in international conferences.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Raj A.**, Bhaskar D.R., Shrivastava M., Kumar P.,2023, "New negative-grounded capacitance multiplier circuits" *International Journal of Circuit Theory and Applications* Vol no. 51 Page no. 1476–1491 **Impact Factor 2.3**

Biography

AJIT NANDAWADEKAR

Department of Electrical Engineering

Ajit Nandawadekar received his B.E degree in Electrical Engineering from the University of Pune, Pune, India, in 2014; and his M.Tech. degree in Power Electronics from the Amrita School of Engineering (ASE), Bangalore, India, in 2017. He is presently working towards his Ph.D. Degree in Electrical Engineering at Delhi Technological University, New Delhi, India. His current research interests include superconducting magnets, MRI, superconducting joints and switches, power electronics, multiphase drives and cryogenics engineering.

Award Summary & Publication Details

Category Detail	No. of Publications
Commendable Research Award	01

1. **Nandawadekar, A.**, Singh, M., & Kar, S. (2023). A versatile 4 K insert for characterization of the superconducting joints. *Review of Scientific Instruments*, 94(10).

Biography

AMARENDRA PANDEY

Department of Electrical Engineering

I am PhD student of 2k18 batch under the supervision Prof. Alka singh in ElectricalEngineering Department.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	3

1. **Pandey A.**, Singh A., 1 Jan,2023, "SWRDFT Controller for Single Phase Grid Tied PV system with Low Voltage Ride through Capability" *Electric Power Systems Research* Volume 214, **Impact Factor 3.9**
2. **Pandey A.**, Singh A.,2023, "Performance of adaptive radial basis functional neural network for inverter control" *Electrical Engineering* Vol no. 105 pages 921–933 **Impact Factor 1.8**
3. **Pandey A.**, Singh A., Feb,2023, "Laguerre polynomial function-based inverter control with low-voltage ride-through capabilities" *International journal of Circuit theory and applications* Vol no. 51 Pages 764-786 **Impact Factor 2.378**

Biography

ANWESH DEVRATNA BEHARA

Department of Electrical engineering

Anwesh Devratna Behera received his B.Tech degree in Electrical Engineering (EE) from Delhi Technological University in 2023. He completed his 10th grade at DAV Public School and continued at Kendriya Vidyalaya for his 12th grade. Presently serving as an executive trainee in the automation department at Tata Power-DDL, he contributes actively to the field of electrical engineering, gaining specialized expertise in the automation of grids. His research interests include Renewable Energy, Solar PV Systems and the Internet of Things, showcasing his dedication to sustainable technology.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Yadav, V. K., **Behera, A. D.**, Singh, R., Maheshwari, A., Ghosh, S., & Prakash, A. (2023). A novel PV array reconfiguration technique based on circular array data structure. *Energy*, 283, 128505.

Biography

ASTITVA KUMAR

Department Of Electrical Engineering

Astitva Kumar completed his B.Tech in 2013 from Uttar Pradesh Technical University in Electrical Engineering. He received his M.Tech degree in Control and Instrumentation from Delhi Technological University, Delhi, India in 2015. He further enrolled in Ph.D. and received his Doctorate degree on the topic "Optimal Design of SPV System and Application" from Delhi Technological University, Delhi, India in 2021. Presently, he is working as an Assistant Professor in Electrical Engineering Department, Netaji Subhash University of Technology, Delhi, India. He has published more than 18 research papers in reputed international journals and conference proceedings. He is currently, an active reviewer for numerous publishers such as IEEE, Springer, Elsevier and Scopus indexed international conferences. He has received Research Excellence Award in 2021 and 2023 for his commendable research and has also received international travel grants for presenting paper in international conferences. He has research experience of working on various government and international organization funded projects. His research interest focuses on utilization of electrical energy, hybrid energy systems, advanced metaheuristic techniques, smart building energy management systems, agrivoltaics, PV power forecasting, energy management systems and intelligent controllers for hybrid energy systems.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Alaraj M., Alsaidan I. and Jamil M., **Kumar A.** and Rizwan M.,2023, " Development of Novel Model for the Assessment of Dust Accumulation on Solar PV Modules" *IEEE Journal of Photovoltaics* Vol no. 13 Page no. 150-157 **Impact Factor 3**

Biography

BANDANA

Department of Electrical Engineering

Bandana has received her B.E Degree in Electrical Engineering and M. Tech Degree in Instrumentation and Control in year 2006 and 2008 from Aligarh Muslim University (AMU), Aligarh, India. and she has awarded PhD degree from Delhi Technological University (DTU), Delhi India in November 2023. She has 14 years of teaching experience in KIET and KEC, AKTU affiliated colleges, India. Her area of research includes Metaheuristic Optimization Techniques, Hybrid Renewable Energy Based Systems (HRES), Size Optimization Of HRES, Space Vector PWM inverter etc. She published 8 research papers in SCIE and International Journals. She has also presented and published 7 research papers in international conferences. She has also got best paper award in JTACON 2020, multidisciplinary International Conference held at Jamia Milia Islamia, New Delhi, India. She is lifetime member of International Association of Engineers (IAENG).

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. Priyanka, **Sharma B.**, Rizwan M., March 2023," A new intelligent approach for size optimization of a renewable energy based grid connected hybrid energy system" *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields* Vol no. 36 Page no. e3050 **Impact Factor 1.6**

2. Priyanka, **Sharma B.**, Rizwan M.,December 2023," Optimal design of Renewable Energy based Hybrid system Considering Weather Forecasting using Machine Learning Techniques" *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields* Vol no. 105 Page no. 4229–4249 **Impact Factor 1.8**

Biography

CHETAN GUSAIN

Department Of Electrical Engineering

Chetan Gusain is a dynamic professional with extensive experience in the field of renewable energy and distributed energy resources. Currently pursuing a Ph.D. in Renewable Energy Optimization at Delhi Technological University, Chetan has demonstrated remarkable proficiency in navigating international governance structures and specialized organizations. His professional journey includes a diverse range of roles, such as an Intern at the Governance & Partnerships Unit of the International Solar Alliance, where he facilitated collaborative outreach initiatives and led event coordination for the global development of solar energy. As a Project Intern at the South Delhi Municipal Corporation, Chetan conducted field inspections for rooftop PV-mounting systems and recommende Operations & Maintenance Strategies for infrastructure upkeep in the NGZ Zone. Chetan's technical expertise was honed during his tenure as a Technical Support Internat GIZ, where he developed a Plug and Play solar system with Li-ion battery technology. As a Project Consultant at The Energy and Resources Institute (TERI), he modeled Battery Energy Storage Systems to reduce DSM penalties in Power Distribution Companies and conducted a case study for Calcutta Electric Supply Corporation.

His contributions also extend to Tata Consulting Engineers Limited, where, as a Project Intern, he worked on the techno-economic feasibility of hybrid solar PV-diesel plants and designed complete electrical drawings for utility and commercial-scale solar projects. Chetan's early professional experience as a Junior Engineer at Millennium Erectors involved site surveys, technical assistance, and the supervision of electrical drawings in 3D/2D AutoCAD. Chetan holds an MTech in Renewable Energy Engineering and Management from TERI School of Advanced Studies, where he achieved an A+ grade with a perfect 10 G.P.A. His B.Tech in Electrical and Electronics from Northern India Engineering College focused on the application of Battery Energy Storage Systems. Recognized for his research excellence, Chetan has received the DTU Research Excellence Award and secured a fellowship in the Ph.D. program. His notable publications and dedication to advancing renewable energy solutions underscore his commitment to driving sustainable change in the industry.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Gusain C., Tripathi M.M., Nangia U.,2023, "Study of Meta-heuristic Optimization Methodologies for Design of Hybrid Renewable Energy Systems" Thermal Science and Engineering Progress Vol no.39 Page no. 101711 Impact Factor 4.8

Biography

DATA RAM BHASKAR

Department Of Electrical Engineering

D. R. Bhaskar received B.Sc. degree from Agra University, B. Tech. degree from Indian Institute of Technology (IIT) Kanpur, M. Tech. from IIT Delhi and Ph.D. from University of Delhi. Prof. Bhaskar held the positions of Lecturer (1984–1990) and Senior Lecturer (1990–1995) at the Electrical Engineering Department of Delhi College of Engineering (now Delhi Technological University). He joined the Electronics and Communication Engineering (ECE) Department of Jamia Millia Islamia in July 1995, as a Reader and became a Professor in January 2002. He served as the Head of the Department of ECE from 2002 to 2005. Presently he is working in the Department of Electronics and Communication Engineering, Delhi Technological University, Delhi, India. His teaching and research interests are in the areas of Bipolar and CMOS Analog Integrated Circuits and Systems, Current Mode/Voltage Mode Signal Processing, Communication Systems, Fractional Order Filters and Electronic Instrumentation. Prof. Bhaskar has authored or co-authored 120 research papers-all in international journals of repute, 10 international conference papers and 4 book chapters. He has co-authored 4 monographs published by Springer. He has acted/has been acting as a Reviewer for several journals of IEEE, IEE and other international journals of repute.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Bhaskar D.R.**, Senani R., Raj A.,2023," Third-order quadrature sinusoidal oscillators with fully uncoupled tuning laws using only two CFOAs and grounded capacitors" *International Journal of Circuit Theory and Applications* Vol no.51 Page no. 2981–2992 **Impact Factor 2.3**

Biography

ISH MISHRA

Department Of Electrical Engineering

Greetings to all! I feel extremely honored and elated to have received this opportunity to share what has been my journey so far. Born and brought up in a family of four in Ghaziabad, I have completed my graduation in EE from DTU and got campus placed in Bain Capability Networks. Working on the research paper provided me with a special opportunity to learn and refine my knowledge of the subject. Being enthusiastic and curious by nature, I try to explore different domains and aspects of life. Embracing lifelong learning, I actively seek out opportunities to expand my knowledge and refine my skills, enabling me to adapt to ever-evolving landscapes. I have a keen interest in Basketball and have played for college team and won many accolades in it for the college. Apart from basketball, singing and art have always intrigued me. These pursuits not only provide me with joy but also foster a sense of holistic well-being. Looking ahead, I am excited about leveraging my skills and knowledge to make a positive impact on society and hence working in that direction. I am committed to using my abilities to create a better world. Self actualization is the ultimate goal that shall help me in contributing the best to the society in every possible way.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Yadav R., Yadav V.K., Singh R., **Mishra I.**. Ganvir I., Manish,2023, "Reconfiguration of PV array through recursive addition approach for optimal power extraction under PSC" *Energy Conversion and Management* Vol no. 292 **Impact Factor 10.4**

Biography

KANCHAN BALA RAI

Department Of Electrical Engineering

Kanchan Bala Rai received a bachelor's degree in electrical and electronics engineering from Chhattisgarh Engineering college. She acquired a master's in electrical devices and power systems from the Disha Institute of Management and Technology. She is a PhD student in electrical engineering at Delhi Technological University, Delhi, India. Her research interests include power quality, renewable energy systems

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. **Rai K.B.** ,Kumar N. II, Singh A.,2023, "Design and analysis of Hermite function-based artificial neural network controller for performance enhancement of photovoltaic-integrated grid system" *International Journal of Circuit Theory and Applications* Vol No. 51 Page no. 1440-1459 **Impact Factor 2.37**

2. **Rai K.B.**, Kumar N. II, Singh A.,2023, "Bernoulli polynomial-based control technique for PV-integrated grid system under distorted supply" *International Journal of Circuit Theory and Applications* Vol No. 51 Page no. 3204-3225 **Impact Factor 2.37**

Biography

KASHIKA BARANWAL

Department Of Electrical Engineering

Received B.Tech. degree in electrical engineering from Dr. A.P.J. Abdul Kalam Technical University, Lucknow, India, in 2013, followed by M.Tech. degree in Automation and Robotics from Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi, India, in 2015. Currently working towards the Ph.D. degree with the Delhi Technological University (DTU), Delhi, India. Research interests include modeling and analysis of solar cells, investigating the performance of PV systems under partial shading conditions, and exploring methodologies to enhance it.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Baranwal K.**, Prakash P., Yadav V.,2023, "A Modified Bypass Circuit for Improved Reliability of PV Module Validated With Real-Time Data" *IEEE Transactions on Device and Materials Reliability* Vol no. 23 Page no. 187-197 **Impact Factor 2**

Biography

M. M. TRIPATHI

Department Of Electrical Engineering

Prof. M. M. Tripathi received the B.Tech. degree from the Madan Mohan Malaviya Engineering College, Gorakhpur, India, in 1994, and the Ph.D. degree from Gautam Buddh Technical University, Lucknow, India, in 2010. He is currently a Professor with the Electrical Engineering Department, Delhi Technological University, New Delhi, India.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Tripathi M.M.,** Kumar A., 2023, "Small-Signal Modeling of GaN-BTG MOSFET for Wireless Applications" *Wireless Personal Communications* Vol no. 132 Page no. 2243-2253 **Impact Factor 2.2**

Biography

MUKHTIAR SINGH

Department Of Electrical Engineering

Mukhtiar Singh is working as Professor with the Department of Electrical Engineering, Delhi Technological University, Delhi. He received the B.Tech. and M. Tech. degrees in electrical engineering from National Institute of Technology (Erstwhile REC Kurukshetra), Kurukshetra, India, in 1999 and 2001, respectively. He earned his Ph.D. degree from Ecole de Technologie Supérieure, University of Quebec, Montreal, Quebec, Canada in 2010. Prof. Singh is the recipient of IEEE student scholarship for one of the best paper in 34th IEEE Conference of Industrial Electronics Society, IECON-2008, held at Orlando, Florida, USA. He is also the winner of Researcher's Merit Scholarship of the University of Quebec, Canada for the three years consecutively, 2008, 2009, and 2010 for his excellent research work culminating to Ph.D. During his Ph.D, Prof. Singh have evolved the concept of Grid-Tied smart inverter, where the grid tied inverter not only supplies the active power generated from RES/ DG but also compensates the load harmonics and reactive power demand simultaneously. Prof. Singh is actively associated with IEEE and had been treasurer of IEEE, PELS-IES, Delhi chapter For 2015 and 2016. He had also been the General Chair of 5th and 6th IEEE Power India International Conference, PIICON 2012, and PIICON 2014. Prof. Singh is also recipient of research excellence award of DTU for the year of 2017, 2018, 2019 2020, and 2021. According to a 2016 survey, conducted by Council of Canadian Academies, you are an author of one of the top 1% most highly cited papers in your field worldwide. Your area of research includes, Power Electronics, Power Quality, Renewable energy and intelligent controllers. He is also in the technical advisory group of leading renewable energy companies like Enercon India Ltd., Mainframe Solar and have also been technical expert for PSU's like Coal India Ltd. and Power Grid Corporation of India Ltd. (PGCIL). He is also in the panel as a subject expert of TCS-ion which is one of the world's largest entity in the area of cloud based IT solutions provider for various industrial, academic institutions as well as prominent examination board. Prof. Singh is also on the editorial board of IEEE transportation electrification committee. As per the recent survey conducted by Stanford University/Elsevier Data base, Prof. Mukhtiar Singh has featured in the top 2% Scientists in the world by securing 1867 rank in the area of electrical & electronics Engineering.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Singh M.**, Seth A.K., 2023,"Plant integrated proportional integrating based control design for electric vehicle charger" *Computers & Electrical Engineering* Vol no. 105 Page no. 16 **Impact Factor 4.3**

Biography

NEHA KHANDUJA

Department Of Electrical Engineering

Ms. Neha Khanduja received the B.E. degree in electrical engineering from the University of Rajasthan (UOR), in 2006 and M.Tech degree in Control & Instrumentation from the Delhi Technological University, in 2013. She is currently working toward the Ph.D. degree in Electrical Engineering from the Delhi Technological University. From 2006 to 2008 she was a lecturer with Poornima college of Engineering (University of Rajasthan), from 2008 to 2009 she worked in Gurgaon Institute of Technology & Management and from 2010 onwards she is working as an assistant Professor with Bhagwan Parshuram Institute of Technology (affiliated with GGSIPU). Her research interests include the optimization techniques, Evolutionary computation and controlling techniques for nonlinear control systems.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Khanduja N.** , Bhushan B.,2023, "Chaotic state of matter search with elite opposition based learning: A new hybrid metaheuristic algorithm" *Optimal Control: Applications & Methods(WILEY)Y)* Vol No.44 Page no. 533-548 **Impact Factor 2.53**

Biography

PORAS KHETARPAL

Department Of Electrical Engineering

Pursuing a part time PhD from ee department under prof MM tripathi.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Khetarpal P.**, Tripathi M.M., 2023,"Power quality disturbance classification taking into consideration the loss of data during pre-processing of disturbance signal" *electric power systems research* Vol no. 220 Page no. 109372 **Impact Factor 3.9**

Biography

RAM BHAGAT

Department Of Electrical Engineering

Ram Bhagat received B.Tech degree from Regional Engineering College(now National Institute of Technology) Hamirpur(H.P), M. Tech. from Delhi College of Engineering and Ph.D. from Delhi Technological University, Delhi. Dr. Ram Bhagat held the positions of Lecturer (June, 1999– May, 2004), Senior Lecturer (June, 2004– May, 2009), Lecturer Selection Grade (June, 2009- May, 2012), Associate Professor (June, 2012 – Nov. 2020) and Professor (Dec, 2020 to till date) at the Electrical Engineering Department of Delhi Technological University (Erstwhile Delhi College of Engineering). Presently, he is H.O.D (B.Tech. Continuing Education), Delhi Technological University, Delhi. His research interests are in the area of Network Analysis and Synthesis, Microelectronics, CMOS Analog Integrated Circuits and Control System.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Bhagat R.**, Bhaskar D.R., Kumar P., Raj A.,2023, 'Single CDBA-based grounded parallel lossy inductor simulator circuits' *AEU - International Journal of Electronics and Communications* Vol no. 168 **Impact Factor 3.2**

Biography

RAVI CHOUDHARY

Department Of Electrical Engineering

Ravi Choudhary is a Ph.D research scholar in the department of Electrical Engineering. His research interest is in the field of Electric Power systems, Controllers and Soft computing, Energy storage devices.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Choudhary R.**, Arya Y., Rai J. N., 2023,"FOPTID+1 controller with capacitive energy storage for AGC performance enrichment of multi-source electric power systems" *Electric Power Systems Research* Vol no. 221 Page no. 109450 **Impact Factor 3.9**

Biography

SHUBHAM GUPTA

Department Of Electrical Engineering

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

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Gupta S.**, Yadav V.K., and Singh M.,2023, "Measuring Influence of Indices in DN Planning" *IEEE Systems Journal* Vol no. 17(3) Page no. 4149 – 4152 **Impact Factor 4.4**

Biography

SOMBIR KUNDU

Department Of Electrical Engineering

Sombir Kundu was born in Haryana, India, in 1989. He received his B. Tech. degree in Electrical Engineering from MDU, Haryana, India and the M. Tech degree in Electrical Power System from the DCRUST, Haryana, India, in 2011 and 2014, respectively. He completed his Ph.D. degree at the Department of Electrical Engineering, Delhi Technological University, Delhi, India in 2023. His areas of research interests include power electronics, renewable energy, microgrid, power quality, and the application of adaptive and robust control techniques in microgrids.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Kundu S.**, Giri A K. , Singh M.,2023, "Implementation of variable gain controller based improved phase locked loop approach to enhance power quality in autonomous microgrid" *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields* Vol No.36 Page no. e3082 **Impact Factor 1.6**

Biography

SURYA KANT

Department Of Electrical Engineering

Surya Kant was born in Uttar Pradesh, India, in 1989. He received his B.Tech. degree in Electrical and Electronics Engineering from the Uttar Pradesh Technical University, Lucknow, India, in 2010; and his M.Tech. degree in Condition Monitoring (Electrical Engineering) from the National Institute of Technology, Hamirpur, Himachal Pradesh, India, in 2012. He did Ph.D. in the Department of Electrical Engineering, Delhi Technological University (DTU), New Delhi, India in 2021. He has 6-year experience in Teaching and Currently, he is working in Graphic Era Hill University, Bhimtal as an Assistant Professor. His research interests include electric machine drives and power electronics.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Kant S.**, Sreejith M., Singh M., Seth A.K., 2023, "Minimization of torque ripples in PMSM drive using PI-resonant controller based model predictive control", *Electrical Engineering* 105, p 207-219, 2023, **Impact Factor 1.8**

Biography

VIVEK SAXENA

Department Of Electrical Engineering

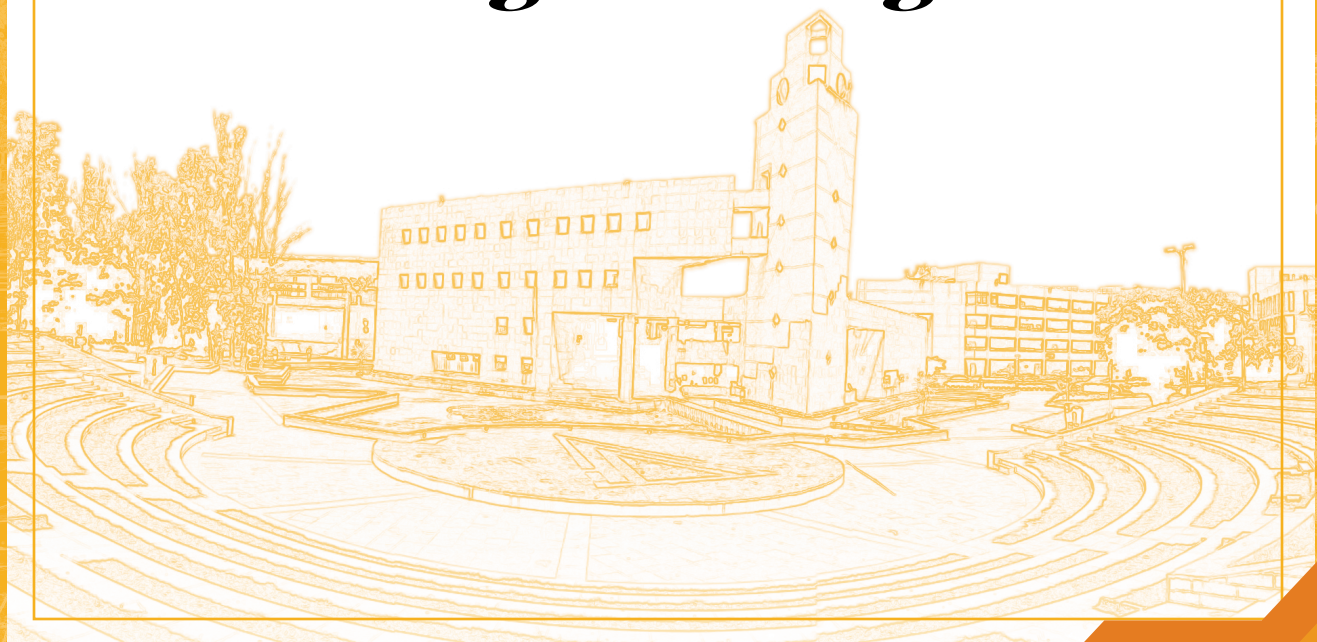
Vivek Saxena was born in 1985 in Bulandshahr, Uttar Pradesh, India. He received his M.Tech. from I.I.T., Delhi, and his B.Tech. from U.P.T.U., Lucknow. He has 17 years of teaching experience and works as an assistant professor at A.B.E.S. Engineering College, Ghaziabad. He is pursuing his Ph.D. from the Electrical Department of Delhi Technological University, Delhi. His research interests include distributed generation, renewable energy, and smart grids.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Saxena V.**, Kumar N. , Nangia U., 2023, "An Extensive Data-Based Assessment of Optimization Techniques for Distributed Generation Allocation: Conventional to Modern" , *Archives of Computational Methods in Engineering State of the Art Reviews* 30, p 675-701, **Impact Factor 9.7**

Department of
Electronics And Communication Engineering



Biography

AKANKSHA SRIVASTAVA

Department Of Electronics And Communication Engineering

Dr. Akanksha Srivastava received her Doctoral Degree in the area of Next Generation Wireless Communication Networks, from the Electronics and Communication Engineering Department at Delhi Technological University, Delhi, India. She also worked as a Principal Investigator (Women Scientist) in a project under the Women Scientists Scheme-A (WOS-A) funded by the Department of Science and Technology (DST), Government of India at DTU, Delhi. She is an active member of various professional bodies like IEEE, IEEE ComSoc, and IEEE-WIE. In 2020, she contributed as an ambassador for the IEEEXtreme 14.0 competition. In 2018, she has been awarded the India Innovation Challenge Design Contest award by DST and Texas Instruments. Her current research includes Green Communication, Energy Efficient Wireless Networks, and Cognitive Radio Networks.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Srivastava A.**, Kaur G.,2023, 'CEAR: A cooperation based energy aware reward scheme for next generation green cognitive radio' *Physical Communication* Vol. No. 56 Page no. 101947 **Impact Factor 2.2**

Biography

ASBAH MASIH

Department Of Electronics And Communication Engineering

Asbah Masih did her B.Tech and M.Tech from Guru Gobind Singh Indraprastha University in 2019 and 2021. Presently she is a research scholar in the Department of Electronics and Communication at Delhi Technological University. Her area of research is Plasmonics. She has worked in the area of Optical Communication and has successfully published 1 SCI paper and 2 book chapters.

Award Summary & Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Masih A.**, Kaur G.,2023, 'Machine learning-based regression models for predicting signal quality of dense wavelength division multiplexing (DWDM) optical communication network' *International Journal of Communication Systems* Vol. No. 36 Page no. 5518 **Impact Factor 2.1**

Biography

ANURAG CHAUHAN

Department Of Electronics And Communication Engineering

Anurag Chauhan received his M.Tech degree in the field of VLSI from the National Institute of Technology, Kurukshetra, India in 2015. He is currently an Assistant Professor in the Department of Electronics and Communication Engineering, Delhi Technological University. He is currently pursuing PhD in the field of nanoelectronics from Delhi Technological University, Delhi, India. His research interests include VLSI, Spintronics, Optoelectronics and Magnetic properties of materials. He received research excellence awards from the Delhi Technological University in the year 2022 and 2023. He is also a member of IEEE society.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Choudhary S., **Chauhan A.**, Sharma K.,2023, 'Transition metal induced-magnetization in zigzag SiCNTs' *Journal of Computational Electronics* Vol. No. 22 Page no. 964–970 2023 **Impact Factor 2.1.**

Biography

ASHISH RATURI

Department Of Electronics And Communication Engineering

Mr. Ashish Raturi is a Ph.D. research scholar in the department of electronics and communication engineering at DTU. He has received B.Tech degree in electronics and communication engineering from Graphic Era University Dehradun. Afterward, he completed his M. Tech from NIT Kurukshetra in VLSI design. His research focuses are computational techniques, material science, nanotechnology, and optoelectronics. He has published papers in SCI and Scopus-indexed journals and presented papers in various International conferences.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	3

1. Choudhary S., Mittal P., **Raturi A.**, 2023, ' Density Functional Characterization of Electronic and Optical Properties of Strontium Titanate Under Doping and Strain for Optoelectronic Applications' *IEEE Transactions on Nanotechnology* Vol. No. 22 Page no. 481-489 **Impact Factor 2.4**

2. Choudhary S., Mittal P., **Raturi A.**, 2023, "Strain engineering for tuning the electronic and optical properties of lithium niobate for optoelectronic applications' *Solid State Communications, Elsevier* Vol. No. 361 Page no. 115074 **Impact Factor 2.1**

3. Choudhary S., Mittal P., **Raturi A.**, 1 Oct.2023, "Strain tunability of the properties of Fe- doped lithium niobate for optoelectronic applications: Theoretical insights' *Main Group Chemistry, IOS Press* **Impact Factor 1.5**

Biography

AYUSH

Department Of Electronics And Communication Engineering

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 endeavors 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 in-memory computing architectures.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Ayush**, Rohilla R. , Mittal P.,2023, 'Variation-Tolerant Sense Amplifier Using Decoupling Transistors for Enhanced SRAM Read Performance ' *Circuits, Systems, and Signal Processing* Vol. No. 42 Page no. 5799-5810 **Impact Factor 2.3**

Biography

AYUSH DHAIYA

Department of Electronics and Communication Engineering

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 endeavors 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 in-memory computing architectures.

Award Summary and Publication Details

Category Detail	No. of Publications
Premier Research Award	01

1. **Dahiya A.**, Mittal P., & Rohilla R. 2023. "Modified decoupled sense amplifier with improved sensing speed for low-voltage differential SRAM". *ACM Transactions on Design Automation of Electronic Systems*, 28(6), 1-15. **Impact Factor: 1.4**

Biography

ANUKUL PANDEY

Department Of Electronics And Communication Engineering

Dr Anukul Pandey was born in Jamui, Bihar, India. He received his M.Tech and PhD degrees in Electronics and Communication Engineering in 2013 and 2019, respectively. Currently, He is serving as an Assistant Professor at Delhi Technological University (Formerly Delhi College of Engineering) India. His research interests include the Machine Learning, Biomedical signal/image processing, data compression, steganography.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Pandey A.**, 14 Jan 2023, 'ECG data compression using the formation of QRS-complex segment bank and integer DCT-based plateau region processing' *Biomedical Signal Processing and Control* Vol. No. 85 **Impact Factor 5.1**

Biography

AMARENDRA KUMAR MISHRA

Department Of Electronics And Communication Engineering

Amarendra Kumar Mishra was born in Varanasi, India. He has completed B.tech from Uttar Pradesh Technical university in the specialisation Electronics and communication Engineering. He received M.tech degree from Delhi Technological University with the specialisation signal processing and digital design. Currently, he is doing Ph.D. from Delhi Technological University. His research area signal processing, image processing, and computer vision.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Mishra A.K.,** ChoudhryM.S., Kumar M.,2023, 'Underwater image enhancement using multiscale decomposition and gamma correction' *Multimedia Tools and Applications* Vol. No. 82 Page no. 15715-15733 **Impact Factor 3.6**

Biography

BHAWNA RAWAT

Department of Electronics And Communication Engineering

Ms. Bhawna Rawat is a Ph.D. research scholar in the Department of Electronics and Communication Engineering at Delhi Technological University under the supervision of Prof. Poornima Mittal. Her research interests include low power circuit design and memory circuits in emerging technologies. She received her B. Tech Degree in Electronics and Communication Engineering from Shiv Nadar University, Greater Noida, and M.Tech degree in VLSI Design from Indira Gandhi Delhi Technical University for Women, Delhi. She is GATE qualified and receives DTU fellowship.

Award Summary and Publications Details

Category Name	No. of Publications
Premier Research Award	1
Commendable Research Award	1

1. **Rawat B.**, & Mittal P., 2023. "A latch-based sense amplifier with improved performance for single ended SRAM application' *Physica Scripta, IOP Publishing Ltd* Vol. No. 98 Page no. 065025-065036 **Impact Factor 2.9**

2. **Rawat B.**, & Mittal P., 2023. A Reconfigurable 7T SRAM Bit Cell for High Speed, Power Saving and Low Voltage Application. *ACM Transactions on Design Automation of Electronic Systems*, 28(6), 1-14. **Impact factor: 1.4**

Biography

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 9, and has 561 total research citation count in last five years. She has published 22 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 and 2022 for her outstanding research contributions. She is a Subject Matter Expert at TCSions 2021 to Present.

Award Summary & Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. **Dhiman C.**, Antil A., 2023, 'A two-stream face anti-spoofing framework using multi-level deep features and ELBP features' *Multimedia Systems* Vol. No. 29 Page no. 1361-1376 **Impact Factor 3.9**
2. **Dhiman C.**, Sharma N. , Singh I.,2023, 'Visual-Motion-Interaction Guided Pedestrian Intention Prediction Framework' *IEEE sensors* Vol. No.23 Page no. 27540 - 27548 **Impact Factor 4.3**

Biography

DAMYANTI SINGH

Department Of Electronics And Communication Engineering

Damyanti Singh is currently working as an Assistant Professor in Department of Electrical & Electronics Engineering at IILM University, Greater Noida. She has completed her Ph.D. in area of VLSI from Delhi Technological University, New Delhi, in 2023. She has received B. Tech degree in Electronics and Communication Engineering from Uttar Pradesh Technical University, Lucknow, U.P., in 2014, M. Tech in VLSI design and Embedded systems from Delhi Technological University, New Delhi, in 2018.

Her research interest includes design of non-volatile SRAM and DRAM memory. She has published various papers in different journals and conferences.

Award Summary & Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. Gupta K. , **Singh D.**, Pandey N.,2023, 'A novel read decoupled 8T1M nvSRAM cell with improved read/ write margin' *Analog Integrated Circuits and Signal Processing (AICSP)* Vol. No. 114 Page no. 89-101 **Impact Factor 1.4**
2. Gupta K., **Singh D.**, Pandey N.,2023, 'Process invariant Schmitt Trigger non-volatile 13T1M SRAM cell' *Microelectronics Journal* Vol. No. 135 Page no. 105773 **Impact Factor 2.2**

Biography

DHRUV SHARMA

Department of Electronics And Communication Engineering

Dhruv Sharma, received his B.Tech degree from GGSIPU University in 2015 and M.Tech degree from Ambedkar Institute of Advanced Communication Technology & Research, New Delhi, India, in 2017. He is currently pursuing the Ph.D. degree with the Department of Electronics and Communication Engineering from Delhi Technological University, New Delhi, India. His current research interest includes computer vision, natural language processing

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Sharma D.**, Dhiman C., Kumar D.,2023, 'Evolution of visual data captioning Methods, Datasets, and Evaluation Metrics: A Comprehensive Survey' *Expert Systems with Applications* Vol. No. 221C Page no. 119773 **Impact Factor 8.5**

Biography

ISHU TOMAR

Department of Electronics And Communication Engineering

Ishu Tomar received the B.Tech. in Electronics and Communication Engineering from Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi, India, in 2018. She completed her Ph.D. degree in Real Time Traffic Control Systems with the Department of Electronics and Communication Engineering, Delhi Technological University (DTU), Delhi, India, in 2023. She is currently working as a Managing Editor in Global Services- OA department, SAGE, New Delhi, India. She has many publications in peer-reviewed journals and presented her research articles in several International Conferences. She has been awarded with two Patent grants by the Intellectual Property India, Govt. of India. Her area of research is Intelligent Transportation systems, Real time Control System, PLC and SCADA automation.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Tomar I.**, Sreedevi I., Pandey N.,2023, 'PLC and SCADA based Real Time Monitoring and Train Control System for the Metro Railways Infrastructure' *Wireless Personal Communications* Vol. No.129 Page no. 521–548 **Impact Factor 2.2**

Biography

JYOTI

Department Of Electronics And Communication Engineering

My name is Jyoti. I am pursuing PhD in the department of electronics and communication Engineering.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Jyoti**, Raghava N.S., Pandey R.,2023, 'Harmonic analysis of CMOS low noise amplifier with employing PMOS IMD technique for biosensor applications' *Microsystem Technologies* Vol. No. 29 Page no. 875-898 **Impact Factor 2.1**

Biography

KAMAKSHI RAUTELA

Department Of Electronics And Communication Engineering

Kamakshi Rautela, received M.Tech. degree from Graphic Era Hill University, Bhimtal, India, in 2017. She is currently pursuing the Ph.D. degree with the Department of Electronics and Communication Engineering from Delhi Technological University, New Delhi, India. Her current research interest includes machine learning, deep learning, computer vision, and medical image processing. She is also a reviewer in Computers in Biology and Medicine.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Rautela K.**, Kumar V., , Kumar D.,2023,'Active Contour And Texture Features Hybrid Model for Breast Cancer Detection From Ultrasonic Images' *International Journal of Imaging Systems and Technology* Vol. No.33 Page no. 2061-2072 **Impact Factor 3.3**

Biography

KAVITA BHATT

Department Of Electronics And Communication Engineering

Kavita Bhatt is a Ph.D. scholar in the department of Electronics and Communication Engineering at Delhi Technological University. She has received B.Tech. degree in Electronics and Communication Engineering from Uttar Pradesh Technical University, India, and M.Tech. degree in Signal Processing from Guru Gobind Singh Indraprastha University India. Her research area includes biomedical signal processing, machine learning, deep learning, and artificial intelligence in healthcare.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Bhatt K.**, Jayanthi N., Kumar M.,2023,' High-resolution superlet transform based techniques for Parkinson's disease detection using speech signals.' *Applied Acoustics* Vol. No.214 Page no. 109657 **Impact Factor 3.4**

Biography

LOKESH SONI

Department Of Electronics And Communication Engineering

Lokesh Soni received the B.E. degree in Electronics and Communication engineering from Institute of Information Technology and Management, Gwalior, Madhya Pradesh, India, in 2015, the M.Tech. degree in Embedded System and VLSI from Netaji Subhas Institute of Technology (NSIT), New Delhi, India, in 2019. He is currently pursuing Ph.D. degree from Delhi Technological University, New Delhi, India. His research interest is focused on to design Low power and High-performance SRAM cell.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Soni L.**, Pandey N.,2023, 'A novel CNTFET based Schmitt-Trigger read decoupled 12T SRAM cell with high speed, low power, and high ratio' *AEU - International Journal of Electronics and Communications* Vol. No.167 Page no. 154669 **Impact Factor 3.2**

Biography

MANJEET KUMAR

Department Of Electronics And Communication Engineering

Manjeet Kumar received the B.Tech degree in Electronics and Telecommunication Engineering from Kurukshetra University, Kurukshetra, India in 2008, and the M.Tech degree in Signal Processing from Guru Gobind Singh Indraprastha University, Delhi, India, in 2011, and the Ph.D. degree in from the Department of Electronics and Communication Engineering, Netaji Subhas Institute of Technology (NSIT), Delhi affiliated to University of Delhi, India, in 2017. He served as Assistant Professor the department of Electronics and Communication Engineering, Bennett University, Greater Noida from June 2016 to July 2020. From July 2020, he has been working as Assistant Professor in the department of Electronics and Communication Engineering at Delhi Technological University, Delhi. He has authored more than thirty-five research articles and fifteen conference papers in reputed international journals and conferences. He also served as a reviewer in many International Journals. His research interests include Signal processing, Biomedical signal processing, Image processing, Fractional systems, Optimization algorithms, Nature-inspired algorithms, Artificial Intelligence in Healthcare, Signal analysis using Wavelet Transform, Wavelet filter banks, Adaptive filtering, Linear and nonlinear system identification, Healthcare assistive techniques, and Low-power biomedical circuit design, ECG detection, ECG Classification, PPG Signal Analysis, Heart rate estimation and Blood pressure estimation, Non-Stationary signal analysis, IoMT and Analog circuit design. He has been awarded with "Premier Research award" in 2022 and "Commendable Research Award" in 2021 and 2022 by Delhi Technological University, Delhi, India. His total citations are 1579 with h-index 24 and i-10-index 43.

Award Summary and Publications Details

Citation Awards	
Cumulative Citation Awards (Silver)	
Yearly Citation Awards (Early Research Impact and Influence Awards)	
Category Name	**No. of Publications**
Commendable Research Award	5

1. Tripathi P. M., Kumar A., and Komaragiri R., **Kumar M.**,2023, "Automatic Seizure Detection and Classification Using Super-resolution Superlet Transform and Deep Neural Network' *Computer Methods and Programs in Biomedicine (Elsevier)* Vol. No.240 Article No. 107680 **Impact Factor 6.1**
2. Pankaj, Kumar A., and Komaragiri R., **Kumar M.**,2023, 'Optimized Deep Neural Network Models for Blood Pressure Classification Using Fourier Analysis-Based Time-Frequency Spectrogram of Photoplethysmography Signal' *Biomedical Engineering Letters (Springer)* Vol. No.13 pages 739–750 **Impact Factor 4.6**
3. Pankaj, Kumar A., and Komaragiri R., **Kumar M.**,2023, 'A Novel CS-NET Architecture Based on the Unification of CNN, SVM and Super-Resolution Spectrogram to Monitor and Classify Blood Pressure Using Photoplethysmography' *Computer Methods and Programs in Biomedicine (Elsevier)* Vol. No.240 Article no. 107716 **Impact Factor 6.1**
4. Pankaj, Kumar A., and Komaragiri R., **Kumar M.**,2023, 'Blood Pressure Estimation and Classification Using A Reference Signal-less Photoplethysmography Signal - A Deep Learning Framework' *Physical and Engineering Sciences in Medicine (Springer)* Vol. No.46 pages 1589–1605 **Impact Factor 4.4**
5. Pankaj, Kumar A., and Komaragiri R., **Kumar M.**,2023, 'Analysis of Photoplethysmogram Signal During Physical Activity Using Fractional Fourier Transform-A Sampling Frequency Independent and Reference Signal-less Method' *Computer Methods and Programs in Biomedicine (Elsevier)* Vol. No. 229 Article No.-107294 **Impact Factor 6.1**

Biography

MOHIT TYAGI

Department of Electronics And Communication Engineering

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 analog mixed signal design of ultra-low 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.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Mittal P., **Tyagi M.**, 2023, 'Design of 8 -bit low power SAR ADC in 45nm for biomedical implants' *Physica Scripta* Vol. No.98 Page no. 116101 **Impact Factor 2.9**

Biography

NEHA GARG

Department of Electronics And Communication Engineering

Neha Garg received her BTech degree in electronics and instrumentation engineering from Anand Engineering College, Agra, India in 2006 and MTech degree in measurement and control from Madhav Institute of Technology and Science, Gwalior, India in 2009. She is currently pursuing PhD from Delhi Technological University, Delhi, in electronics and communication engineering. Her areas of interest are image processing, artificial intelligence, machine learning and signal processing.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Garg, N.**, Choudhry, M. S., & Bodade, R. M. (2023). A review on Alzheimer's disease classification from normal controls and mild cognitive impairment using structural MR images. *Journal of neuroscience methods*, 384, 109745.

Biography

NEETA PANDEY

Department of Electronics And Communication Engineering

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 180 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.

Award Summary and Publications Details

Citation Award	
Yearly Citation Award (Early Research Impact and Influence Award)	
Category Name	**No. of Publications**
Commendable Research Award	2

1. Gupta K., **Pandey N.**, Singh D.,2023, 'Schmitt Trigger 12T1M Non-volatile SRAM cell with improved process variation tolerance' *AEU-International Journal of Electronics and Communications* Vol. No.162 Page no. 154573 **Impact Factor 3.2**
2. Kumar M., Kumar N., Kumar M., **Pandey N.**, 2023,'Two MOS transistor based floating memristor circuit and its application as oscillator' *AEU - International Journal of Electronics and Communications* Vol. No.171 Page no. 154916 **Impact Factor 3.2**

Biography

NAVNIT KUMAR

Department of Electronics And Communication Engineering

He is a full-time research scholar in the Electronics and Communication Engineering department at Delhi Technological University. His research interests include fractional-order devices, non-linear circuits, and analog IC design.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. **Kumar N.**, Kumar M., Pandey N.,2023, 'Electronically tunable positive and negative fractional order inductor circuit using single topology' *INTEGRATION, the VLSI journal* Vol. No. 88 Page no. 379–389 **Impact Factor 1.9**
2. **Kumar N.**, Kumar M., Kumar M.,2023,' CCTA based four different pairs of mutually coupled circuit using single topology' *INTEGRATION, the VLSI journal* Vol. No.91 Page no. 43-53 **Impact Factor 1.9**

Biography

NEETIKA YADAV

Department of Electronics And Communication Engineering

Neetika Yadav received her B.Tech in Electronics and Communication Engineering from Guru Gobind Singh Indraprastha University(GGSIPU), Delhi, India and M.Tech in VLSI Design from Guru Gobind Singh Indraprastha University(GGSIPU), Delhi, India. She is currently pursuing Ph.D. from Delhi Technological University (DTU), Delhi, India and working as assistant professor in Amity Institute of Space Science and Technology,Amity University, Noida. Her area of research is low power VLSI.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Yadav N.**, Pandey N., Devanand, 2023, 'LDML: a proposal to reduce leakage power in DML circuits' *Wireless Personal Communications* Vol. No. 129 Page no. 1009–1024 **Impact Factor 2.2**

Biography

NEETU SHARMA

Department of Electronics And Communication Engineering

Neetu Sharma is currently a full-time PhD scholar at Delhi Technological University, India. She is PG-certified in blockchain technology from IIT Bangalore. Earlier, she worked as an assistant professor for 10 years. She received her MTech and BE degrees in electronics and communication engineering from RGPV, Madhya Pradesh Technical University, India, in 2010 and 2007, respectively. Her research interests include blockchain technology, IoT, machine learning, deep learning, image Processing and VLSI. She is a gold medalist in MTech and has received the Srijin Award for good teaching. She has co-guided 10+ MTech thesis and has 44 research papers published.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Sharma N.**, Rohilla R.,2023 "A novel Hyperledger blockchain-enabled decentralized application for drug discovery chain management' *Computers & Industrial Engineering* Vol. No.183 Page no. 109501 **Impact Factor 7.9**

Biography

NIKHIL SINGH

Department of Electronics And Communication Engineering

Nikhil Singh was born in Uttarakhand, India, in 1994. He received the B.Tech degree in electrical and electronics engineering from the Uttarakhand Technical University, Uttarakhand, India, in 2016 and M.Tech. degree in digital signal processing form G. B. Pant Engineering College, Uttarakhand, India, in 2018. Currently he is pursuing Ph.D. degree in Electronics and Communication Engineering from Delhi Technological University, Delhi, India.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Singh N.**, Kapoor R.,2023, 'Multi-modal Expression Detection (MED): A cutting-edge review of current trends, challenges and solutions' *Engineering Applications of Artificial Intelligence (Elsevier)* Vol. No. 125 Page no. 106661 **Impact Factor 8**

Biography

PALAK HANDA

Department of Electronics And Communication Engineering

Palak Handa is working as a full-time PhD scholar in the department of Electronics and Communication Engineering at Delhi Technological University (DTU), Delhi. She completed her master's degree in VLSI design from the department of Electronics and Communication Engineering at Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi. She has published 8 journal papers, 17 conference papers, 5 book chapters, and 1 granted patent. Her area of interest includes medical image analysis, biomedical signal processing and CAD simulations.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	3

1. Goel N., Deepak, Gunjan, **Handa P.**, Indu S., 2023, 'Automatic Detection of Colorectal Polyps with Mixed Convolutions and its Occlusion Testing' *Neural Computing and Applications* Vol. No. 35 Page no. 19409–19426 **Impact Factor 6**

2. Mangotra H., Goel N., **Handa P.**, 2023,' Effect of selection bias on Automatic Colonoscopy Polyp Detection' *Biomedical Signal Processing and Control* Vol. No. 85 Page no. 104915 **Impact Factor 5.1**

3. Chhabra D., Goel N., Krishnan S., **Handa P.**, 2023, "Exploring the role of ChatGPT in medical image analysis' *Biomedical Signal Processing and Control* Vol. No. 86 Part C Page no. 105292 **Impact Factor 5.1**

Biography

POORNIMA MITTAL

Department of Electronics And Communication Engineering

Prof. Poornima Mittal (B.Tech, M.Tech (Honors), Ph.D.) Senior Member IEEE has published 200+ research papers in international journals and conferences of repute. Her research interest includes Design/Modeling of Flexible Electronic Devices, Memory and Low Power VLSI Circuits. She is the awardee of one Indian Patent on Electric Switch Board and has published two patents on Novel TFT Structure and Reconfigurable Memory. 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 and 2024 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 18+ years of academic and research experience. Presently, she is working as Professor in the Department of ECE, DTU, Delhi, India.

Award Summary and Publications Details

Category Name	No. of Publications
Premier Research Award	1
Commendable Research Award	3

1. **Mittal P.**, Rawat B.,2023, "A low power single bit line configuration dependent 7T SRAM bit cell with process variation tolerant enhanced read performance' *Analog Integrated Circuits and Signal Processing, Springer* Vol. No. 115 Page no. 77-92 **Impact Factor 1.4**

2. Chamola P. and **Mittal P.**, 2023, 'A non-invasive optical method for anaemia detection' *Physica Scripta* Vol. No.98 Page no. 65023 **Impact Factor 2.9**

3. Negi S., **Mittal P.**, Yadav S.,2023, "Characteristic performance and analysis of the positional variation of the charge generation layer to enhance the performance of OLEDs' *Journal of Computational Electronics, Springer* Vol. No. 38 Page no. 1304- 1316 2023 **Impact Factor 2.1**

4. Rawat B., & **Mittal P.**, 2023, "A switching NMOS based single ended sense amplifier for high density SRAM applications". *ACM Transactions on Design Automation of Electronic Systems*, 28(3), 1-14. **Impact Factor: 1.447**

Biography

PARITOSH CHAMOLA

Department of Electronics And Communication Engineering

Paritosh Chamola has received the B. Tech. from Dr. A P J Abdul Kalam Technical University (AKTU) in 2015, M. Tech. from Guru Gobind Singh Indraprastha University (GGSIP) in 2018 and Ph.D. from Delhi Technological University (DTU) in 2023. His research interests include Organic Electronics and VLSI design. He has received Commendable Research Award in 2021.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	3

1. **Chamola P.**, Mittal P.,2023, "PPV–PCBM bulk heterojunction organic solar cell to power modern pacemakers' *Journal of Material Research* Vol. No. 38 Page no. 1304- 1316 **Impact Factor 2.7**
2. **Chamola P.**, Mittal P.,2023, "Flexible organic solar cell to power modern cardiac pacemakers: Versatile for all age groups, skin types and genders' *Physica Scripta* Vol. No.98 Page no. 35018 **Impact Factor 2.9**
3. **Chamola P.**, Mittal P.,2023, "Parametric extraction and internal analysis of fullerene-based polymer bulk heterojunction solar cell' *Main Group Chemistry* Vol. No.22 Page no. 155- 166 **Impact Factor 1.5**

Biography

RAJIV KAPOOR

Department of Electronics And Communication Engineering

Rajiv Kapoor received an ME and PhD degrees in ECE from Delhi College of Engineering, Delhi University, and Punjab University, Chandigarh, respectively. Dr Kapoor is presently working as professor in electronics communication engineering Department, Delhi Technological University, Delhi). He has authored over 100 research papers in various renowned international journals and conferences. His primary research interests are machine learning, computer vision, signal and image processing.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Kapoor A., **Kapoor R.**, Singh ,N., 2023, "Multi-sensor based object tracking using enhanced particle swarm optimized multi-cue granular fusion' *Multimedia Tools & Application* Vol. No. 85 Page no. 42417–42438 **Impact Factor 3.6**

Biography

SNEHLATA YADAV

Department of Electronics And Communication Engineering

Snehlata Yadav received the B.Tech. degree in ECE from Uttar Pradesh Technical University, India, in 2014, and the M.Tech. degree in Microelectronics from the National Institute of Technology, Srinagar (J&K), India, in 2018. She has rendered her services in the Electrical Engineering department at IIT Jammu for a year. She is currently pursuing a Ph.D. degree at Delhi Technological University, India.

Award Summary and Publications Details

Category Detail	No. of Publications
Premier Research Award	01

1. **Yadav S.**, Rewari S., & Pandey R.,2023, "Impact of temperature on a ferroelectric interfaced negative capacitance double gate junctionless accumulation mode field effect transistor-compact model" *Proceedings of the Royal Society* A, 479(2271), 20220528 **Impact Factor: 3.5**

Biography

SACHIN TARAN

Department of Electronics And Communication Engineering

Dr. Sachin Taran is a motivated Teaching Professional with approximately Twelve years of teaching and research experience in Electronics and Communication Engineering. Dr. Taran presently working as an Assistant Professor at Delhi Technological University (DTU), Shahbad Daulatpur, New Delhi, 10042, India, Since July 2020. He received Ph.D. degree from the Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, India, and done Postdoc from the Nanyang Technological University (NTU) Singapore, From 2019 to June 2020.

Dr. Taran served as an Assistant Professor at the Department of Electronics and Communication at, Shangvi Innovative Academy, Indore, India during 2009-2010. He served as an Assistant Professor at the Department of Electronics and Communication at, Medicaps University, Indore, India during 2010-2015. He has authored/co-authored 46 research papers in various reputed international publishers' journals/conferences, such as IEEE, Elsevier, Springer, IET, and IOP. His last five-year citations are 1264 with h-index 19 and i-10-index 28. His research interests include artificial intelligence, signal processing, and time-frequency analysis. He is a member of IEEE, Associate Editor for Frontiers in signal processing, and technical reviewer of leading international journals of IEEE, Elsevier, Springer, and IET etc.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	3

1. **Taran S.**, Ravi, 2023, 'A nonlinear feature extraction approach for speech emotion recognition using VMD and TKEO' *Applied Acoustics* Vol. No. 214 Page no. 109667 **Impact Factor 3.4**

2. **Taran S.**, Sharma D.,Pandey A.,2023, 'A fusion way of feature extraction for automatic categorization of music genres' *Multimedia Tools and Applications* Vol. No.82 Page no. 25015–25038 **Impact Factor 3.1**

3. **Taran S.**, Kala J., Pandey A., 2023, 'A Dual-Staged heterogeneous stacked ensemble model for gender recognition using speech signal' *Applied Acoustics* Vol. No. 205 Page no. 109271 **Impact Factor 3.4**

Biography

S. INDU

Department of Electronics And Communication Engineering

Prof. S. Indu is a Professor in the Department of Electronics and communication Engineering, Delhi Technological University, Delhi, and is currently the head of the department there. She has done Ph.D. in Computer Engineering from University of Delhi and M.Tech, Post B.Tech. from University of Kerala, Kerala. She was awarded the Best Branch Counsellor award 2013 IEEE USA. Her research interests are in the field of Computer Vision, Image Processing, and wireless sensor network. She has 3 completed sponsored research projects. She published several research papers in international journals and conferences.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Kaushik A., **Indu S.**, Vadlamani L.S.S., Hussain M. M., Sahay M., Singh R., Singh A.K., Goswami P., Kousik N.G.V., 2023, 'Post Quantum Public and Private Key Cryptography Optimized for IoT Security' *Wireless Personal Communications* Vol. No. 129 Page no. 893-909 **Impact Factor 2.2**

Biography

SHIVANI YADAV

Department of Electronics And Communication Engineering

Shivani Yadav is a Ph.D research scholar in the Department of Electronics and Communication Engineering, Delhi Technological University, Delhi, India. Her research interests include simulation and modeling of nanoscale device and biosensor applications. She received her B. Tech degree in electronics and communication engineering from UIET, CSJM University Kanpur, and M. Tech degree in VLSI design from MNIT Jaipur, India. She has rendered her services as assistant professor in the department of ECE at Inderprastha Engineering college, Ghaziabad for 6 years.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. 1. Yadav S., Rewari S., 2023, "Analytical modeling and numerical simulation of graded JAM Split Gate-All-Around (GJAM-SGAA) Bio-FET for label free Avian Influenza antibody and DNA detection' *Microelectronics Journal* Vol. No. 142 Page no. 106011 **Impact Factor 2.2**
2. 2. Yadav S., Rewari S., 2023, "Numerical Simulation of Hetero Dielectric Trench Gate JAM GateAll-Around FET (HDTG-JAM-GAAFET) for Label Free Biosensing Applications' *ECS Journal of Solid State Science and Technology* Vol. No.12 Page no. 127008 **Impact Factor 2.2**

Biography

SONAL SINGH

Department of Electronics And Communication Engineering

Dr. Sonal Singh received her Ph.D degree in electronics engineering from University of Petroleum & Energy Studies (UPES), Dehradun, India and M. Tech degree from Jamia Millia Islamia, Delhi, India. She has more than 8 years of teaching experience. Her area of interest includes Nanoelectronics/Nanotechnology and photonics. She has published more than 20 papers in reputed international journals, conferences, research articles and book chapters.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. **Singh S.**, Chaudhary V., 2023, 'Twin core photonic crystal fiber based temperature sensor with improved sensitivity over a wide range of temperature' *Optical and Quantum Electronics* Vol. No. Page no. **Impact Factor 3**
2. **Singh S.**, Chaudhary V., 17 Jan 2023, 'Highly sensitive twin core photonic crystal fiber for hazardous cancer cell detection in THz frequency regime' *Optical and Quantum Electronics* Vol. No.55 **Impact Factor 3**

Biography

SHIKHA

Department of Electronics And Communication Engineering

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 PhD in VLSI from Delhi Technological University, New Delhi

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Shikha, Pandey N., 2023 'Memristor based architectures for PFSCL circuit realizations' *CSSP* Vol. No. 42 Page no. 4985–5012 **Impact Factor 2.311**

Biography

SUGANDHA YADAV

Department of Electronics And Communication Engineering

Ms. Sugandha Yadav is a Ph.D. research scholar in the department of electronics and communication engineering at DTU. She has received B.Tech degree in electronics and communication engineering from HIT, Greater Noida. Afterward, she completed his M. Tech from NIT Kurukshetra in VLSI design. Her research focuses are computational techniques, material science, organic and flexible electronics. She has published papers in SCI journals and presented papers in various international conferences.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. Negi S., **Yadav S.**, Mittal P., 2023, 'Advancements and Perspectives of Organic LED: In Depth Analysis of Architectural Design, Characteristics Parameters, Fabrication Techniques, and Applications.' *ECS Journal of Solid State Science and Technology* Vol. No. 12 Page no.4 **Impact Factor 2.2**

2. Negi S., **Yadav S.**, Mittal P., 2023, 'An In-Depth Analysis of Variation in Characteristic Performance of OLED with Respect to Position of Charge Generation Layer' *ECS Journal of Solid State Science and Technology* Vol. No. 12 Page no. 106001 **Impact Factor 2.2**

Biography

SOURABH RANA

Department of Electronics and Communication Engineering

Mr. Sourabh Rana is Assistant Professor in the Department of Electronics & Communications Engineering at Bharati Vidyapeeth College of Engineering, New Delhi. He is currently pursuing Ph.D. from Delhi Technological University, Delhi, India. He has a teaching experience of more than 6 years. His current research interests include metamaterials, metasurfaces, characteristics mode analysis, and RCS reduction of antennas.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Rana S.**, Jain P., 12 Jan, 2023 'Design of low-profile high-gain wideband circularly polarized low RCS single-layer metasurface antenna using characteristics mode analysis' Vol. No. 15(9) **Impact Factor 1.4**

Biography

SHIKHA SINGHAL

Department of Electronics And Communication Engineering

Shikha Singhal received the B.Tech. degree in Electronics and Communication Engineering from Kurukshetra University, Kurukshetra, India, in 2011, and M.Tech. degree in Electronics and Communication Engineering from Kurukshetra University, Kurukshetra, India, in 2015. She is currently pursuing the Ph.D. degree from 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, machine learning, and image processing.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Singhal S.**, Kumar M., 2023, 'A Systematic Review on Artificial Intelligence-Based Techniques for Diagnosis of Cardiovascular Arrhythmia Diseases: Challenges and Opportunities' *Archives of Computational Methods in Engineering* Vol. No.30 Page no. 865-888 **Impact Factor 9.7**

Biography

SUMEDHA GUPTA

Department of Electronics And Communication Engineering

Ms Sumedha Gupta received the B.Tech degree and M.Tech degree from Guru Gobind Singh Indraprastha University, Delhi, India in the year 2011 and 2013 respectively. She is currently pursuing Ph.D. with the Department of Electronics and Communication, Delhi Technological University, Delhi, India. She has publications in peer-reviewed journals and also presented her work in the International Conferences as well. Her area of research is Modeling of Microelectronic Devices.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. Gupta R.S., **Gupta S.**, Pandey N., 2023, 'Analytical model for junctionless accumulation-mode cylindrical surrounding gate (JAM-CSG) MOSFET as a biosensor' *International Journal of Numerical Modelling* Vol. No.36 Page no. 3095 **Impact Factor 1.436**

2. **Gupta S.**, Pandey N., 2023, 'Modeling of Dual- Metal Junctionless Accumulation-Mode cylindrical surrounding gate (DM-JAM-CSG) MOSFET for cryogenic temperature applications' *Microelectronics Journal* Vol. No.139 Page no. 105880 **Impact Factor 1.992**

Biography

TANVIKA GARG

Department of Electronics And Communication Engineering

Ms. Tanvika Garg is a Ph.D. research scholar in the Department of Electronics and Communication Engineering at Delhi Technological University. Her research interests include designing of gallium nitride high electron mobility transistor for power electronics applications. She received her B.Tech degree in Information and Communication Technology from Dhirubhai Ambani Institute of Information and Communication Technology, Gujarat and M.Tech degree in Electronics and Communication Engineering from National Institute of Technology, Delhi. She is GATE qualified and receives DTU fellowship.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	2

1. **Garg T.**, Kale S., 6 Jan, 2023 'A novel p-GaN HEMT with AlInN/AlN/GaN double heterostructure and InAlGaN back-barrier' *Microelectronics Reliability* Vol. No. 145 **Impact Factor 1.6**

2. **Garg T.**, Kale S., 6 Jan, 2023, 'A novel stepped AlGaN hybrid buffer GaN HEMT for power electronics applications' *Microelectronics Reliability* Vol. No. 149 **Impact Factor 1.6**

Biography

VANSH SINGHAL

Department of Electronics and Communication Engineering

Mr. Vansh Singhal is a fourth-year BTech student majoring in Electronics and Communication Engineering. With a profound interest in electronics, Vansh delves deep into VLSI concepts, particularly focusing on near Vth SRAM cell design. Over the past year, he has dedicated his research efforts to understanding and optimizing SRAM cells.

His current focus extends to the innovative realm of CAM (Content addressable memory) where he explores cutting-edge applications of memory in computation. His passion for digital VLSI is evident through various projects that showcase his curiosity and technical prowess in the domain. Notably, he has secured an internship role at Texas Instruments in the summer of 2023, contributing his skills to design verification.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. Kumar B., **Singhal V.**, Rawat B.,Mittal P., 2023, 'A single ended, single port configuration based 9T SRAM cell for stability enhancement' *Physica Scripta* Vol. No. 98 Page no. 115035 **Impact Factor 2.9**

Biography

YASHNA SHARMA

Department of Electronics and Communication Engineering

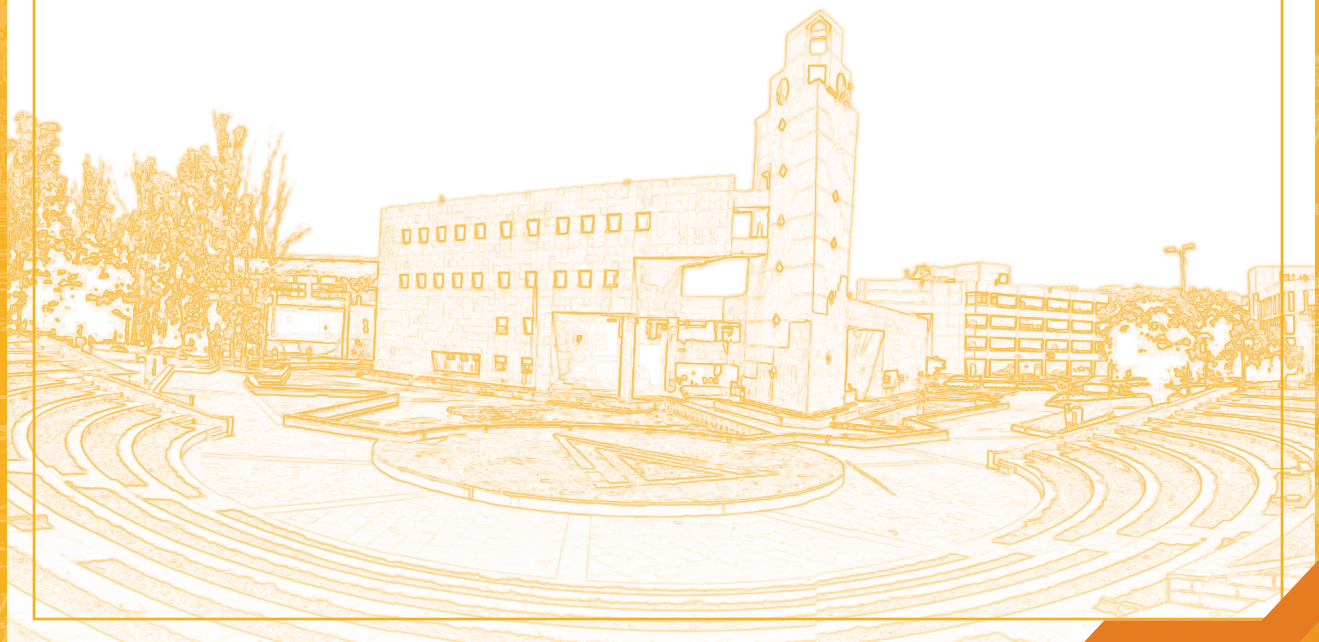
Dr. Yashna Sharma is an Assistant Professor in the Department of Electronics and Communication Engineering at Delhi Technological University, India since 2016. She joined the Indira Gandhi Institute of Technology, Delhi in 2007 and received a degree of Bachelor of Technology in Electronics and Communication, 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 doctoral thesis from IIT Delhi on 'Nanophotonic Sensors and Devices" in June 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, SERS-based sensing and the design of optical switches based on phase change materials.

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Sharma Y.**, Dalal K., 2023, 'Broadband plasmonic switches based on nanodisc-dimers with progressively increasing diameters on a plasmonic film with a VO2 spacer' *Optics Communications* Vol. No. 530 Page no. 129121 **Impact Factor 2.4**

Department of
Information Technology



Biography

ABHISHEK VERMA

Department of Information Technology

Hello! I'm Abhishek Verma, a devoted research scholar at Delhi Technological University (DTU) with a passion for pushing the boundaries of Information Technology. Currently immersed in my Doctor of Philosophy (PhD) journey at DTU, I've spent the last 1 year and 5 months dedicated to cutting-edge research, specializing in data analytics and experimental design.Before embarking on my PhD, I served as an Associate Researcher at the esteemed Indian Institute of Technology, Kanpur, for 6 months. During this period, I actively contributed to groundbreaking research, resulting in publications on forecasting satellite-based carbon-monoxide time-series data and pioneering methods for predicting PM2.5 pollution in Delhi.My academic background includes a Master of Technology (MTech) from Dr. A.P.J. Abdul Kalam Technical University and a Bachelor of Technology (BTech) in Information Technology from KIET Group of Institutions. Alongside my academic pursuits, I have earned an O level certification, showcasing my commitment to continuous learning. With a strong focus on interdisciplinary research and a determination to advance the field of information technology, I am enthusiastic about making meaningful contributions to academia during my PhD at DTU. My analytical skills, dedication, and passion position me as a promising scholar, ready to explore new horizons in the world of Information Technology.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Verma A.**, Ranga V. & Vishwakarma D.K., 2023, 'A novel approach for forecasting PM2.5 pollution in Delhi using CATALYST', *Environmental Monitoring and Assessment* 195, p1457, **Impact Factor 3**.

Biography

AKANKSHA KAROTIA

Department of Information Technology

Akanksha Karotia is currently pursuing her Ph.D. at the Department of Information Technology, Delhi Technological University, Delhi. She completed her B.Tech in Information Technology from Guru Tegh Bahadur Institute of Technology (GTBIT) in 2018. In 2020, she received her M.Tech degree in Computer Science and Engineering from the Centre for Development of Advanced Computing (C-DAC), Noida. Her areas of interest include Natural Language Processing, Machine Learning, and Deep Learning, in which she actively engages in ongoing research.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Susan S., **Karotia A.**, 2023, 'CovSumm: an unsupervised transformer-cum-graph-based hybrid document summarization model for CORD-19', *The Journal of Supercomputing* 79, p 16328–16350, **Impact Factor 2.57**

Biography

ANANYA PANDEY

Department of Information Technology

My name is Ananya Pandey, have completed my B.Tech in CSE from Jamia Hamdard University, New Delhi in 2018. I have completed M.Tech in computer engineering from Jamia Millia Islamia University, New Delhi in 2020. Currently, doing PHD from the department of Information Technology under the guidance of Prof. Dinesh Kumar Vishwakarma in the field of computer vision. My topic for the PHD thesis is "Design a Framework for Sentiment Analysis using Deep Learning".

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Pandey A.**, Vishwakarma D.K., 2023, 'VABDC-Net: A framework for Visual-Caption Sentiment Recognition via spatio-depth visual attention and bi-directional caption processing', *Knowledge-Based Systems* 268, p 110515, **Impact Factor 8.8**

Biography

ANUSHA CHHABRA

Department of Information Technology

I received Bachelor in Engineering degree in 2007 from Maharishi Dayanand University, Rohtak, Haryana and Master of Technology degree in 2011 from Guru Gobind Singh Indraprastha University, Delhi, India. I am currently pursuing Ph.D. degree from the Delhi Technological University, India under the supervision of Prof. Dinesh Kumar Vishwakarma. My thesis title is "Design and Development of Framework for Detection of Hate Content.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Chhabra A.**, and Vishwakarma D.K., 2023, 'A literature survey on multimodal and multilingual automatic hate speech identification', *Multimedia Systems* 29, p 1203-1230, **Impact Factor 3.9**

2. **Chhabra A.**, and Vishwakarma D.K., 2023, 'Multimodal hate speech detection via multi-scale visual kernels and knowledge distillation architecture', *Engineering Applications of Artificial Intelligence* 126, P 106991, **Impact Factor 8**

Biography

ASHISH BAJAJ

Department of Information Technology

I am Ashish Bajaj. In 2019, I earned a Bachelor of Technology degree in Computer Science from Guru Gobind Singh Indraprastha University, located in Delhi, India. Afterwards, in 2021, I completed a Master of Technology degree in Information Technology from the same university. I am currently enrolled in a Ph.D. program at Delhi Technological University in India. I am now focused on researching Adversarial Machine Learning.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Bajaj A.**, Vishwakarma D.K., 2023, 'HOMOCHAR: A novel adversarial attack framework for exposing the vulnerability of text based neural sentiment classifiers', *Engineering Applications of Artificial Intelligence Journal* Volume 126, Part A, November 2023, 106815, **Impact Factor 8**

2. **Bajaj A.**, Vishwakarma D.K., 2023, 'Evading text based emotion detection mechanism via adversarial attacks', *Neurocomputing Journal* Volume 558, 14 November 2023, 126787, **Impact Factor 6**

Biography

ANKIT YADAV

Department of Information Technology

Ankit Yadav is a research scholar in the department of Information Technology.

Award Summary and Publication Details

Category Detail	No .of Publications
Premier Research Award	01

1. **Yadav, A.**, & Vishwakarma, D. K. (2023). MRT-Net: Auto-adaptive weighting of manipulation residuals and texture clues for face manipulation detection. *Expert Systems with Applications*, 232, 120898. **Impact Factor 8.5**

Biography

BINDU VERMA

Department of Information Technology

Dr. Bindu Verma is a faculty in the Department of Information Technology at Delhi Technological University (Formerly known as Delhi College of Engineering). She earned a masters and Doctorate degree in Automated Intent Recognition using Hand Gesture and Face Expression Analysis from School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi. She is passionate to work in the area of computer vision, machine learning, human computer interaction, intelligent systems, and affective state monitoring. I have made substantial contributions to the field of human-computer interaction, emotion recognition, and intent recognition with many research articles published in international conferences and journals. I am the reviewer of many International Journals such as IET intelligent transport system, IEEE Transactions on Circuits and Systems for Video Technology, intelligent transportation system conferences, etc.

Award Summary and Publication Details

Category Detail	No .of Publications
Premier Research Award	01

1. Mittal H., & **Verma B.** 2023, 'CAT-CapsNet: A convolutional and attention based capsule network to detect the driver's distraction'. *IEEE Transactions on Intelligent Transportation Systems*. **Impact Factor : 8.5**

Biography

DEEPIKA VARSHNEY

Department of Information Technology

During my research career in Delhi Technological University(New Delhi) since 2019, I received commendable research award for publishing article in SCI indexed journals in the year of 2020 and 22. I was also awarded with Senior Research Fellowship (SRF) Presently, I am working as Assistant Professor and serving academics & research in the Department of Computer Science and Engineering & Information Technology, Jaypee Institute of Information Technology, Noida-62, U.P., since 2022. I have published 7 research articles in reputed SCI/Scopus journals. Also, I've participated in organizing short term training programs.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	02

1. **Varshney D.**, Vishwakarma D.K., 2023, 'An automated multi-web platform voting framework to predict misleading information proliferated during COVID-19 outbreak using ensemble method.', *Data & Knowledge Engineering* 143, p102103, **Impact Factor 2.5**

2. **Varshney D.**, Vishwakarma D.K., 2023,'Framework for detection of probable clues to predict misleading information proliferated during COVID-19 outbreak', *Neural Computing and Applications* 35, 5999-6013, **Impact Factor 6**

Biography

DINESH KUMAR VISHWAKARMA

Department of Information Technology

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, 2018, 2019, 2020, 2021 and 2022. 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 2023, 2022 and 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.

Award Summary and Publication Details

Citation Awards	
Cumulative Citation Awards : Gold	
Highly Citation Award01 :	
Yearly Citation Award)Early Research Impact and Influence Award)	
Category Name	**No .of Publications**
Premium Research Award	02
Commendable Research Award	03

1. Gautam, N., & **Vishwakarma, D. K.**, 2022. Obscenity detection in videos through a sequential convnet pipeline classifier. *IEEE Transactions on Cognitive and Developmental Systems*, 15(1), 310-318, **Impact Factor 5**

2. Yadav, A., & **Vishwakarma, D. K.**, 2023. A deep multi-level attentive network for multimodal sentiment analysis. *ACM Transactions on Multimedia Computing, Communications and Applications*, 19(1), 1-19, **Impact Factor 5.1**

3. Gupta S., and **Vishwakarma D.K.**, 2023, 'HISNet: a Human Image Segmentation Network aiding bokeh effect generation', *Multimedia Tools and Applications* 82, 12469–12492, **Impact Factor 3.6**

4. Tanwar A., and **Vishwakarma D.K.**, 2023, 'A deep neural network-based hybrid recommender system with user-user networks', *Multimedia Tools and Applications* 82, 15613–15633, **Impact Factor 3.6**

5. Khatra I., Choudhary A., Rao A., Tyagi A., **Vishwakarma D.K.**, 2023 'Influence Maximization in social networks using discretized Harris' Hawks Optimization algorithm', *Applied Soft Computing* 149, **Impact Factor 8.7**

Biography

NIDHI

Department of Information Technology

Nidhi received a Bachelor of Technology and a Master of Technology in Computer Science from Banasthali Vidyapith, Rajasthan, India. She is currently pursuing her Ph.D. degree from Delhi Technological University, Delhi, India. She has a keen interest in the fields of computer vision, machine learning, image classification, etc.

Her current research interest is facial emotion recognition. Delving into this field showcases her commitment to exploring the intricate aspects of human-computer interaction and affective computing.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. Verma N., **Nidhi**, 2023 'From methods to datasets: a detailed study on facial emotion recognition', *Applied Intelligence* 53, p 30219–30249, **Impact Factor 5.3**

Biography

PRIYANKA MEEL

Department of Information Technology

Dr. Priyanka Meel received a Bachelor of Technology (B.Tech.) Degree from the Indian Institute of Information Technology and Management, Gwalior, India, in 2011 and Master of Technology (M.Tech.) Degree from the Indian Institute of Information Technology and Management, Gwalior, India, in 2013. She joined as an Assistant Professor in the Department of Information Technology, Delhi Technological University, New Delhi, India, in 2016. She received a Doctor of Philosophy (Ph. D.) degree from the Department of Information Technology, Delhi Technological University, New Delhi, India in 2022. Her current research interests include Artificial Intelligence, Data Analytics, Fake News Detection, Image Processing, Pattern Analysis, Machine Learning, and Deep Learning.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Meel P.**, Vishwakarma D.K., 2023, 'Multi-modal fusion using Fine-tuned Self-attention and transfer learning for veracity analysis of web information', *Expert Systems with Applications* 229, p 120537, **Impact Factor 8.5**

Biography

PULKIT SHARMA

Department of Information Technology

Pulkit Sharma is a graduate of Delhi Technological University(formerly DCE) who majored in Information Technology and passed out in 2022. Currently, he is working as a Software Engineer at Myntra. He's always interested to explore areas related to Deep Learning. He's proficient in programming languages such as C, C++ and Python and acquainted various deep learning libraries such as Pytorch and Keras. His interests mainly include exploring research areas of Computer Vision and Natural Language Processing.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Sharma P.**, Arya R., Verma R., Verma B., 2023, 'Conv-CapsNet: capsule based network for COVID-19 detection through X-Ray scans'. *Multimedia Tools and Applications, Springer* 82, pages 28521–28545, **Impact Factor 2.577**

Biography

SUNAKSHI MEHRA

Department of Information Technology

Name: Sunakshi Mehra. Educational Qualification: B. Tech in Information Technology from Guru Gobind Singh Indraprastha University, Delhi in 2015 with 70.27 grade. M. Tech. in Information Technology from Guru Gobind Singh Indraprastha University, Delhi in 2017 with 82.22 grade. Joined Ph.D. in Information Technology Department at Delhi Technology University Delhi in July 2019. Cleared UGC NET examination. Research areas of interest: Speech and Natural language Processing, deep learning, linguistics.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Mehra S.**, Susan S., 2023, 'Deep fusion framework for speech command recognition using acoustic and linguistic features', *Multimedia Tools and Applications* 82, 38667–38691, **Impact Factor 3.6**

Biography

VIRENDER RANGA

Department of Information Technology

Dr. Virender Ranga has received his Ph.D. degree in February 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. He has published more than 100 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 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 etc.

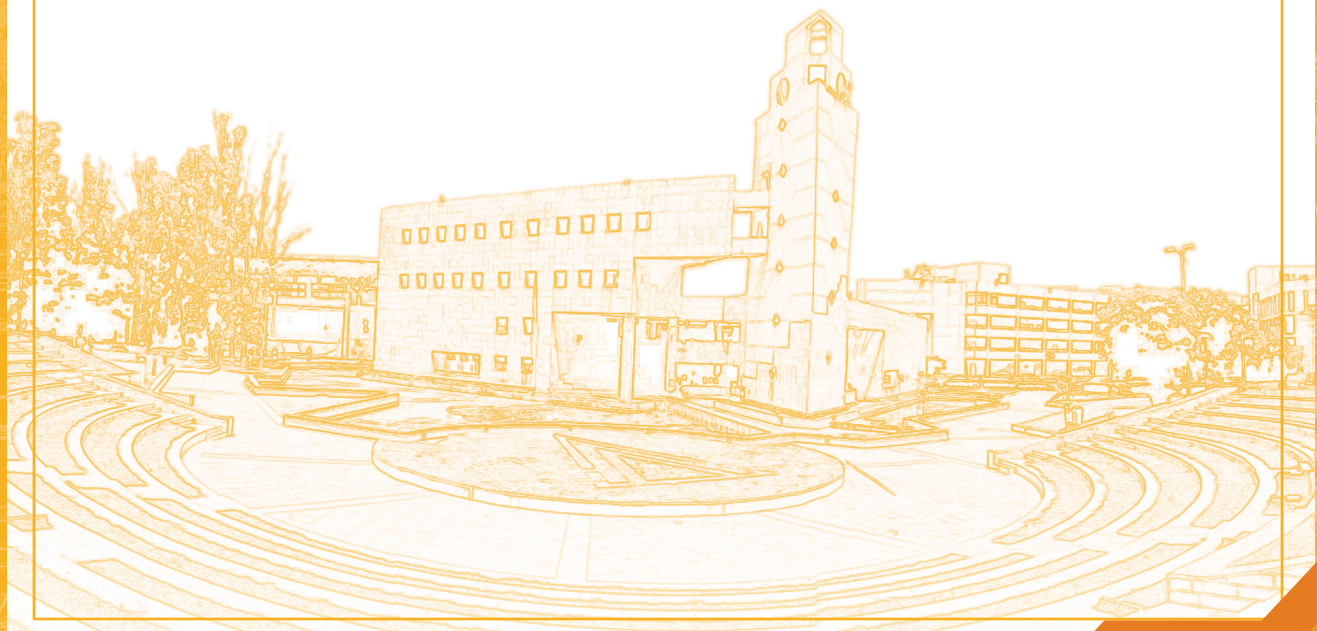
Award Summary and Publication Details

Citation Award	
Cumulative Citation Award) Silver,(	
Yearly Citation Award) Early Research Impact and Influence Award(	
Category Name	No .of Publications
Commendable Research Award	02

1. **Ranga V.**, 2023, 'Mitigation of DDoS Attack Using Moving Target Defense in SDN', *Wireless Personal Communications* 131, 2429–2443, **Impact Factor 2.2**

2. **Ranga V.**, Zear A., Bhushan K., 2023, 'Coordinated network partition detection and bi-connected inter-partition topology creation in damaged sensor networks using multiple UAVs', *Computer Communications* 203, 15-29, **Impact factor 6**

Department of
Mechanical Engineering



Biography

ABHISHEK SAHU

Department of Mechanical Engineering

Dr. Abhishek Sahu has successfully completed his PhD in Mechanical Engineering from Delhi Technological University. He holds a Bachelor of Engineering degree in Mechanical Engineering from RGPV University, Bhopal, and a Master of Engineering degree in Advanced Production Systems from NITTTR, Bhopal. With extensive experience in academia, research, and industry, his expertise spans various areas. Dr. Sahu's research focuses on Industry 4.0, Circular Economy, Supply Chain Management, and Assembly Line Balancing. He has contributed significantly to the field with numerous research articles and patents published in prestigious International Journals and Conferences. His work has been featured in Journal of Enterprise Information Management, Sustainable Energy Technologies and Assessments, Environmental Science and Pollution Research, Sustainable Computing: Informatics and Systems, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, and The TQM Journal.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

Topics-:

1. **Sahu A.**, Agrawal S., and Kumar G., 2023, 'Triple bottom line performance of manufacturing Industry: A value engineering approach' *Sustainable Energy Technologies and Assessments* Vol No. 56 Page no. 103029 **Impact Factor 8.**

Biography

ANIL KUMAR

Department of Mechanical Engineering

Dr. Anil Kumar is Associate Professor in Department of Mechanical Engineering, with an additional charge of Additional Coordinator-Centre for Energy and Environment, Delhi Technological University, Delhi, India. He completed his Ph.D. in Solar Energy from Indian Institute of Technology Delhi, India in 2007. He was Post-Doctoral Researcher at Energy Technology Research Center, Department of Mechanical Engineering, Faculty of Engineering, Prince of Songkla University, Hat Yai, Songkhla, Thailand in the discipline of Energy Technology. His nature of experience in Teaching and Research (Science, Technology, Society, and Sustainable Development). His areas of specialization are; Energy Technology, Energy Economics, Heat Transfer, and Environmental Issues. He has published 195 papers in international peer-reviewed journals and 80 papers in the International/National conferences proceeding. He has received more than 6700+ citations with 45 h-index (Google Scholar) and 4200+ citations with 36 h-index (SCOPUS). He authored 12 books (4 National and 8 International editions). He is Fellow and Chartered Engineer of The Institution of Engineers (India) (vide no. F-1268879, date of election

24-08-2020). He appears in the most cited number Information Systems (IS) researchers featured in the World Ranking of"Top 2% scientists created by Stanford University since 2019". He also appeared in AD Scientific Index 2021, 2022 and 2023: World Scientist and University Rankings. 01 granted patent and 03 published patents in his credit.He has supervised 10 Ph.D. scholars, 43 master students. Dr. Kumar has visited countries, namely UK, Thailand, and Malaysia.

Award Summary and Publications Details

Citation Award	
Cumulative Citation Award) Platinum)	
Yearly Citation Award) Early Research Impact and Influence Award(	
Category Name	**No .of Publications**
Premier Research Award	2
Commendable Research Award	7

1. Singh P., Gaur M. K., Tiwari G. N., & **Kumar A.**, 2023, "Thermal Modeling of Water-in-Tube Type Evacuated Tube Solar Collectors to Predict Outlet Water Temperature: An Experimental Validation" *Journal of Solar Energy Engineering*, 145(2), 021004 **Impact Factor: 2.3**

2. Kushwah A., **Kumar A.**, Gaur M. K., & Pal A., 2023 "Heat and Mass Transfer, Quality, Performance Analysis, and Modeling of Thin Layer Drying Kinetics of Banana Slices" *Journal of Solar Energy Engineering* 2023 145(5), 051010. **Impact Factor: 10.4**

3. Sharma M., Atheaya D., **Kumar A.**, 2023,'Performance evaluation of indirect type domestic hybrid solar dryer for tomato drying: Thermal, embodied, economical and quality analysis' *Thermal Science and Engineering Progress* Vol No. 42 (1) Page no. 101882 **Impact Factor 4.8**

4. Richhariya G., Shukla A.K., Shukla K.N., Chanakaewsomboon I., **Kumar A.**, 2023 ,'Efficient photosensitive light harvesting dye sensitized solar cell using hibiscus and rhodamine dyes' *Journal of Power Sources* Vol No. 572 Page no. 233112 **Impact Factor 9.2**

5. Richhariya G., Shukla A.K., Shukla K.N., & Meikap B.C., **Kumar A.**, 2023 ,'Effect of Different Counter Electrodes on Power Conversion Efficiency of DSSCs' *Journal of Electronic Materials* Vol No. 52 Page no. 60–71 **Impact Factor 2.1**

6. Bhukesh S.K., **Kumar A.**, 2023, 'Simulation, modeling and experimental performance investigations of novel giant water lens solar thermoelectric generator' *Energy Conversion and Management* Vol No. 295 (1) Page no. 117656 **Impact Factor 10.4**

7. Kant R., **Kumar A.**, 2023, 'Energy-economic and exergy-environment performance evaluation of solar energy integrated essential oil extraction system' *Solar Energy* Vol No. 265 (15) Page no. 112101 **Impact Factor 6.7**

8. Kant R., **Kumar A.**, 2023, 'Thermo-enviro-economic analysis of conventional steam distillation system for peppermint oil extraction' *Thermal Science and Engineering Progress* Vol No. 46 (1) Page no. 102246 **Impact Factor 4.8**

9. Yadav A.K., Sinha S., **Kumar A.**, 2023, 'Comprehensive review on performance assessment of solid oxide fuel cell-based hybrid power generation system' *Thermal Science and Engineering Progress* Vol No. 46 (1) Page no. 102226 **Impact Factor 4.8**

Biography

ANIL KUMAR

Department of Mechanical Engineering

Mr. Anil Kumar currently holds the position of Scientist 'E' at the Centre for Fire Explosive and Environment Safety (CFEES), a division of the Defence Research and Development Organization (DRDO) under the Government of India, a role he has diligently fulfilled since 2004. An alumnus of the National Institute of Technology (NIT) Trichy, he earned his B.Tech in Mechanical Engineering. Subsequently, he pursued higher studies, obtaining an M.Tech in Thermal Engineering from Delhi Technological University, completing his degree from 2021 to 2023.

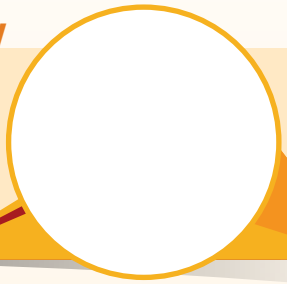
His professional expertise is centered around explosive safety, encompassing areas such as the hazard classification of ammunition, determination of TNT equivalence for both ammunition and explosives, and compliance with Quantity Distance regulations. Mr. Anil Kumar's dedicated contributions have significantly advanced the field, reinforcing his standing as a valuable asset within the domain of fire, explosives, and environmental safety.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Kumar A.**, Kushwah A., and **Kumar A.**, 2023, 'A novel reduced nano- phase change material based absorber for enhancing the water productivity and performance of solar desalination system' *Materials Letters* Vol No. 341 Page no. 134298 **Impact Factor 3**

Biography



ASHOK KUMAR SINGH

Department of Mechanical Engineering

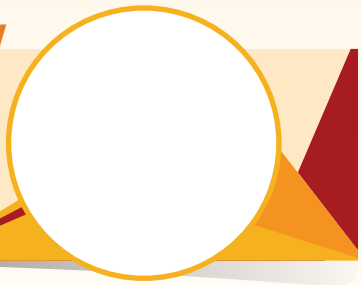
Dr. Ashok Kumar Singh was born on 01st February 1983, in Lucknow, Uttar Pradesh, India. He did his Ph.D. in 2022 at Mechanical Engineering Department, specializing in Thermal Engineering from Delhi Technological University, Delhi. He has received his B.Tech. Degree from Uttar Pradesh Technical University, 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 17 years and published more than 12 SCI-indexed papers in reputed International Journals and more than 28 Scopus-indexed papers in International Conferences and Journals. Dr. Singh received "Commendable Research Award – 2020, 2021 & 2022" in 2021, 2022, and 2023, respectively, from Delhi Technological University, Delhi, and also featured in the list of "World Ranking of Top 2% Scientists" in the 2022 database created by the experts at Stanford University, United States of America. His research areas of interest are solar thermal, solar desaltification, drying and heating systems, and renewable energy technology.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Singh A.K.**, Samsher, 2023 'Eco-Design Requisites for Solar Desaltification Still Augmented Evacuated Annular Tube Collectors with Parabolic Concentrator: An Optimum-Environ-Economic Viability' *Environment Development and Sustainability* Vol No. 25 Page no. 11057–11094 **Impact Factor 4.9**

Biography



ASHUTOSH MISHRA

Department of Mechanical Engineering

I am Ashutosh Mishra, a research scholar in the Department of Mechanical Engineering. Recently, I successfully completed my Pre-Ph.D., and I am on track to submit my thesis soon. My Ph.D. research revolves around energy conversion and optimizing thermal systems, with a specific focus on the combined cycle power plant. In my work, I have proposed methods to enhance the performance of combined cycle power plants through various approaches, employing mathematical modeling and subsequent multi-objective optimization.I have contributed to the academic community by publishing research papers in esteemed journals affiliated with ASME and Springer. Additionally, one more publication is currently in communication, and I am in the process of preparing another paper. My academic journey includes earning an M. Tech. in Thermal Engineering from Delhi Technological University, where my project delved into the energy modeling of a typical combined cycle power plant. Prior to that, I completed my B. Tech. in Mechanical Engineering.

Award Summary and Publications Details

Category Name	No .of Publications
Premier Research Award	01

1. **Mishra A.**, Arora B. B., & Arora A., 2023, 'Multi-objective optimization of an inlet air-cooled combined cycle power plant. *Journal of Thermal Science and Engineering Applications*, 15(7), 071005. **Impact Factor: 2.1**

Biography

ASHISH KUMAR

Department of Mechanical Engineering

I am Dr. Ashish Kumar, a recent Ph.D. graduate in Mechanical Engineering from DTU. Currently serving as an Assistant Professor in the Mechanical Engineering department at Galgotias College of Engineering and Technology, my research focuses on developing lightweight materials for aerospace and automotive engineering. Proficient in advanced tools such as SEM, EDS, TEM, EBSD, Nanoindentation, Electrochemical Corrosion, and Mechanical properties, I am dedicated and work diligently to achieve research targets.

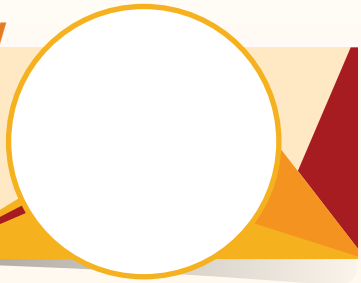
Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Kumar A.**, Singh R. C., Chaudhary R., 2023 'Investigation of Microstructure and Several Quality Characteristics of AA7075/Al2O3/Coconut Shell Ash Hybrid Nanocomposite Prepared through Ultrasonic Assisted Stir-Casting' *Journal of Materials Engineering and Performance* Vol No. 32 Page no. 9263-9278 **Impact Factor 2.3**

2. **Kumar A.**, Singh R. C., Chaudhary R., 2023, 'The utilisation of coconut shell ash in production of hybrid composite: Microstructural characterisation and performance analysis' *Journal of Cleaner Production* Vol No. 398 Page no. 136494 **Impact Factor 11.1**

Biography



ANANT BHARDWAJ

Department of Mechanical Engineering

I am Mechanical engineering Graduate and Production Engineering Post graduate and presently working in the area of abrasive flow machining. I was associated with BHEL haridwar as GAT and KIET group of Institutions as Assistant Professor.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Bhardwaj A.**, Srinivas K., Chaudhary R., 2023, 'Novel electrode for thermal additive centrifugal force-assisted abrasive flow machining' *Journal of the Brazilian Society of Mechanical Sciences and Engineering* Vol No. 45 Page no. 583 **Impact Factor 2.2**

2. **Bhardwaj A.**, Srinivas K., Chaudhary R., 2023, 'Analysis of Shapes of Centrifugal Force-Generating Rod in Centrifugal Force-Assisted Abrasive Flow Machining Process' *MAPAN* Vol No. 38(2) Page no. 459-479 **Impact Factor 1**

Biography

ANAND SHARMA

Department of Mechanical Engineering

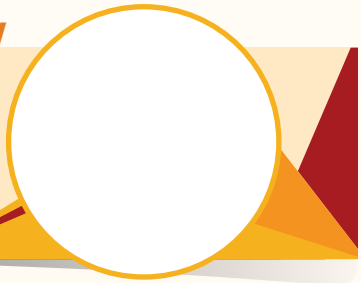
Anand Sharma is a Research Scholar at Delhi Technological University, (formerly Delhi College of Engineering), New Delhi. He has a total teaching experience of more than 10 years. He has published 9 papers in peered International Journals (indexed in SCI/SCOPUS) and 4 papers in International Conferences. His areas of interest are Magnetorheological Finishing methods, Nano-Finishing, Non-Traditional machining processes, Characterization of Metal Matrix Composites, Machining of difficult to machine materials.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Sharma A.**, Niranjan M.S., 2023, 'Surface topography assessment using chemical assisted ball end magnetorheological finishing' *Physica Scripta* Vol No. 98 Page no. 115961 **Impact Factor 3.081**

Biography



ANAND KUSHWAH

Department of Mechanical Engineering

Mr. Anand Kushwah is a research scholar in the department of Mechanical engineering, Delhi technological University. He did his M.Tech from R.J.I.T, BSF academy, Gwalior. After M.Tech, he worked as Assistant professor in Madhav Institute of Technology and Science, Gwalior, India since 2017.There, using the research facilities he combined his interests and gained the quantitative and analytical skills and successfully filed two patents on Apparatus for Heating Automotive/Industrial Coolant Using Solar Evacuated Tubes and System of the Same (Patent No. 201821045563) and Method and Apparatus for Controlling the Temperature of Solar Dryer (Patent No. 201921001878).

During these years, he participated in organizing and enrolling in 11 workshops and short-term courses. Besides this, he also coordinated tech fests, GIAN course and industry visits for students to teach them using live and hands on experience. Through his patents and interest in research and innovation he has published 7 papers in International Conference, 4 papers in National Conference, 2 papers in Scopus Journals, and 11 paper in SCI Journal.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Kushwah A.**, Gaur M.K., Kumar A., 2023, 'Optimization of Drying Parameters for Hybrid Indirect Solar Dryer for Banana Slices Using Response Surface Methodology' *Process Safety and Environmental Protection* Vol No. 170 Page no. 176-187 **Impact Factor 7.8.**

2. **Kushwah A.**, Gaur M.K, Shrivastav P., Kumar A., 2023, 'Environmental Sustainability and Exergetic Based Sustainability Indicators for Heat Exchanger-Evacuated Tube Assisted' *Sustainable Energy Technologies and Assessments* Volume Vol No. 57 Page no. 103277 **Impact Factor 8**

Biography

ANKIT SONTHALIA

Department of Mechanical Engineering

Ankit Sonthalia completed his B.Tech in Mechanical Engineering from the VIT, Vellore in the year 2010. He then completed his M.Tech in Automotive Engineering from the VIT, Vellore in collaboration with ARAI Pune in the year 2014. He joined the SRM University as an Assistant Professor in the year 2015 in the Department of Automobile Engineering. In the year 2016, he joined Delhi Technological University as a part-time Research Scholar and his area of research is production of renewable diesel and its testing in a diesel engine. He has published seventeen scientific research papers in SCI journals. He is a reviewer for several international journals. He is also a member of Society of Automotive Engineers and Institution of Engineers, India.

Award Summary & Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Sonthalia A.**, Geo V.E., Thiyagarajan S., & Pugazhendhi A., Kumar N., Tomar M., 2023,' Moving ahead from hydrogen to methanol economy: scope and challenges' *Clean Technologies and Environmental Policy* Vol No. 25 Page no. 551–575 **Impact Factor 4.3**

Biography

DEEPAK KUMAR

Department of Mechanical Engineering

Deepak Kumar is a research scholar in the Department of mechanical engineering DTU. He is working on the "wear behaviour of thermally sprayed ceramic coating for high-temperature application". He completed his M.Tech. from DTU in 2016. He has published 12 international research papers and attended six international conferences. He received the Best Paper Award in the international conference on Industrial and manufacturing systems (CIMS-2020) at NIT, Jalandhar. Also received the best paper award in the International conference on smart cities at Jamia Millia Islamia, 2019.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Kumar D.**, Walia R.S. ,Singh P., Murtaza Q., 10 Jan, 2023,' Synergistic effect of Al_2O_3–40%TiO_2 coating on thermal conductivity and corrosion rate of SS 304 substrate' *SADHANA - Academy Proceedings in Engineering Sciences, Springer* Vol No. 48 (266) **Impact Factor 1.6**

Biography

GAURAV KUMAR

Department of Mechanical Engineering

I am a passionate and skilled CFD analyst with over 5 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 high-quality 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.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Kumar G.**, Singh R.K., 2023, 'Supercritical water flow in heated wire wrapped rod bundle channels: A review' *Progress in Nuclear Energy* Vol No. 158 Page no. 104620 **Impact Factor 2.7**

Biography

GIRISH KUMAR

Department of Mechanical Engineering

Dr. Girish Kumar is working as a Professor in the Department of Mechanical Engineering at Delhi Technological University, Delhi, India. He has more than 25 years of experience in industry, teaching and research. Dr. Kumar is currently having additional responsibilities as Chief Executive officer (CEO) of DTU-Innovation and Incubation Foundation, Nodal officer-World class skill Centre-DTU and coordinator, Internal Quality Assurance Cell (IQAC)-DTU. He has worked as Works Manager for five years in Indian Ordnance Factory Services (IOfS) under the Ministry of Defence Government of India before joining academics. His teaching and research areas include Optimization, Reliability Engineering, Maintenance Management, Quality engineering, Stochastic Modeling, etc. He holds a PhD degree in Reliability Engineering from Indian Institute of Technology Delhi, India. Dr. Kumar has published more than 70 papers in International Journals and conference proceedings. He also completed a visiting faculty assignment at Asian Institute of Technology Bangkok in the year 2017.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	3

1. James A.T., Mohammad Asjad, Shukla V.C., Arya V. , **Kumar G.**, 2023, 'Analyzing barriers for implementing new vehicle scrap policy in India' *Transportation Research Part D-Transport And Environment* Vol No. 114(2023) Page no. 103568 **Impact Factor 7.6**

2. James A.T., **Kumar G.**, Pundhir A., Tiwari S., Sharma R., 2023, 'Assessment of sustainable maintenance performance of automobile garages in India' *International Journal of Environmental Science and Technology* Vol No. 20 Page no. 9945–9962 **Impact Factor 3.1**

3. Bhujel R.C., Mohammad Asjad, **Kumar G.**, Aggarwal A., Gupta D.,Yadav A., 2023, 'Analyzing the barriers for aquaponics adoption using integrated BWM and fuzzy DEMATEL approach in Indian context' *Environmental Science and Pollution Research* Vol No. 30 Page no. 47800–47821 **Impact Factor 5.8**

Biography

HARI SHANKER

Department of Mechanical Engineering

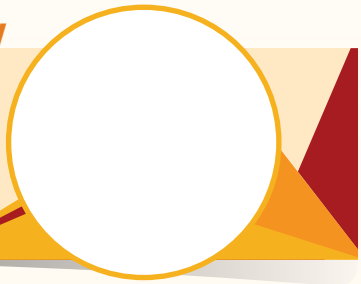
Mr Hari Shanker is a research scholar in the Department of Mechanical Engineering and my Roll No- 2K17/PhD/ME/28. I am pursuing my Ph.D. at DTU Delhi in the Department of Mechanical Engineering under the supervision of Dr. Reeta Wattal. My topic of research is "Mechanical and Microstructural Characterization of Cold Metal Transfer Welded Aluminium Metal Matrix Composite Joints". I have completed my coursework and SRC. I have also published 3-SCIE and 2-Scopus-indexed conference papers.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Shanker H.**, Wattal R., 2023, 'Comparative study of microstructural and mechanical properties of robotic CMT and GMAW welded 7475-T7351 aluminium alloy joints' *Materials Today Communications* Vol No. 37 Page no. 2352-4928 **Impact Factor 3.8**

Biography



KHUSHBU YADAV

Department of Mechanical Engineering

Khushbu Yadav is working as a Research Scholar at the Centre for Advanced Studies and Research in Automotive Engineering (CASARE), Mechanical Engineering Department, Delhi Technological University, Delhi. She did her B.Tech in Mechanical Engineering from M.P.E.C, Kanpur. She did her M.Tech in Mechanical Engineering from MNNIT, Allahabad. Her research expertise includes alternative fuels with special emphasis on Biodiesel. She has more than 11 years of teaching experience in mechanical engineering. She has published 2 research papers in SCI and Scopus indexed journals and 8 research papers in peer reviewed journals/conferences. She is working as an Assistant Professor in the department of Mechanical Engineering, Amity School of Engineering and Technology, Amity University, Noida, U.P.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Yadav K.**, Kumar N., Chaudhary R., 2023, 'ANN prediction approach analysis for performance and emission of antioxidant-treated waste cooking oil biodiesel' *International Journal of Environmental Science and Technology* Vol No. 20 Page no. 12581-12596 **Impact Factor 3.1**

Biography

MADHUKAR CHHIMWAL

Department of Mechanical Engineering

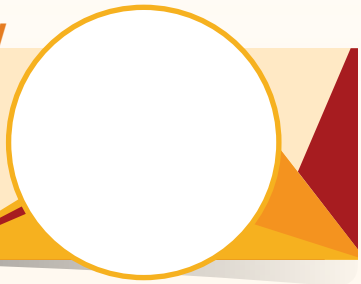
Madhukar Chhimwal is pursuing PhD in Mechanical Engineering from Delhi Technological University, Delhi, India. He obtained Master's in Manufacturing Systems Engineering (MSE) from Sant Longowal Institute of Engineering and Technology (Deemed University, Estd. Govt. of India), Sangrur, Punjab, India. He is also a recipient of Swachhta Saarthi Fellowship (SSF) 2021-22 under Waste to Wealth Mission spearheaded by The office of the Principal Scientific Adviser to the Government of India (GOI), housed at Invest India. He has published various research papers in journals of international repute viz. Resources Policy (Elsevier), Sustainability (MDPI), Journal of Modeling in Management (Emerald), International Journal of Intelligent Enterprise (Inderscience). His focused areas of research are circular economy, circular supply chain, sustainability and risk management.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Chhimwal M.**, Agrawal S., Kumar G., 2023, 'Markovian approach to evaluate circularity in supply chain of non ferrous metal industry' *Resources Policy* Vol No. 80 Page no. 103260 **Impact Factor 10.2**

Biography



MOHD ASJAD SIDDIQUI

Department of Mechanical Engineering

Mohd Asjad Siddiqui is a research scholar in the area of Thermal Engineering in the Department of Mechanical Engineering at Delhi Technological University (DTU) Delhi. He is a competent and valued researcher in the area of Alternative fuel combustion, Thermal-fluid science, and Renewable energy-based power generation and cooling systems. He has experience in teaching various subjects of Mechanical Engineering which includes; Thermodynamics, Fluid Mechanics, Automotive Components Design, Energy Sources for Automobiles. He has a solid background in thermodynamic concepts and computational skills required to simulate the performance of renewable energy systems and published research papers in reputed international journals.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Siddiqui M. A.**, 2023, 'Development and assessment of a novel natural gas fuelled HCCI engine based combined power, heating, and refrigeration system' *Energy* Vol No. 283 Page no. 128994 **Impact Factor 9**

Biography

MD GULAM MUSTAFA

Department of Mechanical Engineering

The individual's educational history demonstrates their commitment to excellence and their aspiration to pursue a career at top engineering institutions in a technologically advanced environment, where they can flourish in demanding situations. Currently working towards a Ph.D. degree at Delhi Technological University (DTU). The individual also completed an M.Tech in Renewable Energy Technology from Delhi Technological University (DTU), Delhi, and a B.Tech. in Mechanical Engineering from Jamia Millia Islamia, Delhi.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Zunaid M., Gautam S., **Mustafa M.G.**, 2023, 'Numerical Analysis and Moth Flame Optimization of Passive T-Micromixer with Twist and Bend mixing channel' *Chemical Engineering and Processing - Process Intensification* Volume Vol No. 190 Page no. 109436 **Impact Factor 4.3**

Biography

MOHIT VISHNOI

Department of Mechanical Engineering

Mr. Mohit Vishnoi is a Research Scholar in the Department of Mechanical Engineering at Delhi Technological University, Delhi. He received his B.Tech degree from Dr. A.P.J. Abdul Kalam Technical University (AKTU) (formerly UPTU) and M.Tech from National Institute of Technology, Tiruchirappalli (Tamil Nadu). He is working as an Assistant Professor in Department of Mechanical Engineering at JSS Academy of Technical Education, Noida. He has published more than 30 research papers in International Journal and Conferences Proceeding, 2 Book chapters. He is currently working in the area of Surface modification such as Plasma Electrolytic Oxidation (PEO) and Thermal Spaying Coatings.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Vishnoi M.**, Murtaza M. and Kumar P., 11 Jan, 2023, "Mechanical and Erosion Characterization of Untreated and Solution-Treated Nitrogen-Alloyed (23-8N) Austenitic Stainless Steel" *Journal of Materials Engineering and Performance* Vol No. 32 **Impact Factor 2.3**
2. **Vishnoi M.**, Murtaza M. and Kumar P., 12 Jan, 2023,'Mechanical and surface characterization of Er_2O_3/La_2O_3/CeO_2 doped carbide coating developed using high velocity oxy fuel (HVOf)' *Physica Scripta* Vol No. 98 **Impact Factor 2.9**

Biography

N YUVARAJ

Department of Mechanical Engineering

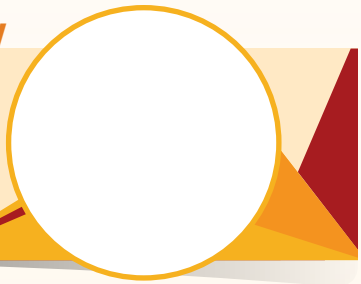
Dr N.YUVARAJ has obtained his Bachelor's degree in production engineering from the Government College of Technology, Coimbatore, India, and a Masters's Degree in Mechanical Engineering from Delhi College of Engineering, Delhi University, Delhi, India and a PhD from Delhi Technological University. Since 2000, he has been working as a faculty member in the Department of Mechanical Engineering at Delhi Technological University (Formerly Delhi College of Engineering), Delhi, India. He is doing active research in surface composites, welding, casting, manufacturing and reverse logistics. He has published more than 30 papers in SCI journals.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Koli Y.**, Vedabouriswaran G. , Yuvaraj N., and Issar P., 2023, 'Mechanical and Tribological Properties of AA6061/SiC/Aloe Vera Powder Hybrid Al Composites Fabricated by Stir Casting' *Silicon* Vol No. 15 Page no. 2451-2465 **Impact Factor 3.4**

Biography



NIRANJAN SAHOO

Department of Mechanical Engineering

Niranjan Sahoo is a research scholar and pursuing his Ph.D. at Mechanical Engineering Department with specialization in Thermal Engineering from Delhi Technological University, Delhi. He has received his M.Tech. from Jadavpur University, Kolkata. Mr. Niranjan Sahoo has published 3 SCIE indexed paper in reputed International Journal, and 4 Scopus indexed papers in International Conferences. His research areas of interests are solar power towers and application of solar energy in the field of cement industry.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Sahoo N.**, Kumar A., Samsher, 2023, 'Potential of solar thermal calciner technology for cement production in India and consequent carbon mitigation' *Process Safety and Environmental Protection* Vol No. 179 Page no. 667-676 **Impact Factor 7.8**

2. **Sahoo N.**, Kumar A., Samsher, 2023, 'Design of solar cement plant for supplying thermal energy in cement production' *Journal of Cleaner Production* Vol No. 426 Page no. 139151 **Impact Factor 11.1**

Biography

NITIN
Department of Mechanical Engineering

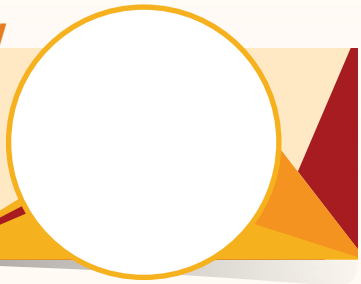
I am a research scholar in the mechanical department. My Ph.d topic is fatigue failure analysis of low pressure steam turbine blades under the guidance of Dr. Sushila Rani.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Sehra, N**., & Rani, S. (2023). Failure investigations of last stage low-pressure steam turbine blade. *Journal of Mechanical Science and Technology*, *37*(8), 4017-4023. **Impact Factor 1.5**

Biography



NEELAM BAGHEL
Department of Mechanical Engineering

Ms. Neelam Baghel is currently working as a full-time research scholar in Mechanical Engineering Department at Delhi Technological University, Delhi. She has completed his B.E. in Mechanical Engineering from Madhav Institute of Technology and Science, Gwalior and M.Tech. with specialization in Thermal Engineering from Delhi Technological University, Delhi. She has received "Best Program conducted" award, awarded by ITM Gwalior in 2020. His area of interest is Solar Photovoltaics and Hybrid Renewable Energy Systems.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Baghel N.**, Kumar A., K. Manjunath, September 2023, 'Performance evaluation and optimization of albedo and tilt angle for solar photovoltaic system' *Computers and Electrical Engineering* Volume Vol No. 110 Page no. 108849 September 2023 **Impact Factor 4.3**

Biography

NEERAJ BUDHRAJA

Department of Mechanical Engineering

I am Neeraj Budhraja, a young and dynamic research scholar working in the field of energy and IC engines. I have completed my graduation (B.Tech.) in Mechanical and Automotive engineering in 2015 and post-graduation (M.Tech.) in Renewable Energy Technology in 2018 from Delhi Technological University, Delhi. Currently, I am pursuing Doctoral degree in Hydrogen production techniques, and utilization in Fuel Cells. My key interest areas are Hydrogen energy, Biofuels like biogas and biodiesel, IC engines, and Environmental pollution reduction. I have 6 SCIE research papers in reputed peer-review international journals, 1 ESCI and 2 SCOPUS research article along with 2 Book chapters in LNME (Springer). I have reviewed many articles in international journals like Environment, development and sustainability (Springer Nature), International Journal of Engine Research (SAGE), Chemical Engineering Journal (Elsevier), Renewable & Sustainable Energy Reviews (Elsevier), Renewable Energy (Elsevier) and Renewable & Sustainable Energy Reviews (Elsevier), etc. I have also qualified UGC NET 2017 in Environmental Studies and GATE 2014, 2016, 2019, 2021 in Mechanical Engineering. I have actively participated and being in the organizing committee of many workshops, seminars, and faculty development programs.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Budhraja N.**, Pal A., and Mishra R.S., 2023, 'Plasma reforming for hydrogen production: Pathways, reactors and storage' *International Journal of Hydrogen Energy* Vol No. 48 Page no. 2467 – 2482 **Impact Factor 7.2**

2. **Budhraja N.**, Pal A., and Mishra R.S., 2023, 'Optimizing Methanol Reforming Parameters for Enhanced Hydrogen Selectivity in an Aspen Hysys Simulator using Response Surface Methodology' *Energy Technology* Vol No. 11 Page no. 2300203 **Impact Factor 3.8**

Biography

PRAVIN KUMAR

Department of Mechanical Engineering

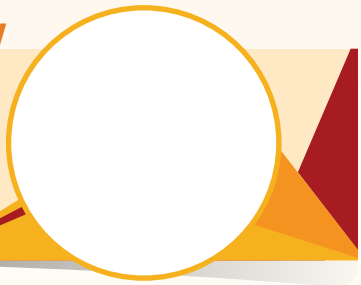
Dr. Pravin Kumar is working as an Associate Professor in the Department of Mechanical Engineering, Delhi Technological University, Delhi. He has obtained the degree of B Sc. Engg. (Mechanical) From Bhagalpur College of Engineering, M.Tech. (Industrial Management) from IIT (BHU), Varanasi, and Ph.D. from IIT Delhi. He has more than 24 years of teaching and research experience. He has teaching experience of different subjects in the area of Industrial Engineering, Operations and Supply Chain Management, Quality Management, Operations Research, etc. He has authored more than 70 research papers in reputed Journals and conferences.

He has authored book on Basic Mechanical Engineering (Pearson Learning, Delhi), Engineering Economics and Management (Wiley India), Industrial Engineering and Management (Pearson Learning, Delhi).

Award Summary and Publications Details

Citation Award
Yearly Citation Award) Early Research impact and Influence Awards)

Biography



PREM SHANKER YADAV

Department of Mechanical Engineering

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.

Mr. Prem shanker Yadav conducted research on 3-hole probe, 5-hole probe in wind tunnel study and single phase, multiphase flow on computational fluid dynamics. His M.Tech research was based on determination of flow characteristics on war ship. The PhD work is focused on spray characteristics to emphasis on cleaner combustion with alternative fuel. he mainly emphasis on state-of -the art on nozzle geometry reformation technique, which purposes to employ an enhanced spray behavior of biodiesel, diesel and blends. 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.

He has published SCI and Scopus indexed scientific research papers. Besides, one book chapter is published for a known publisher such as Springer. He also works as a reviewer for many reputed journals such as Springer, Elsevier etc. In recognition of his excellent research contribution, he has also been awarded the DTU Research Excellence award for executing commendable research work in the year 2023 and eligible in 2022.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Yadav P.S.**, Said Z., Caliskan H., Raman R., Gautam R., 2023, 'Novel investigation on atomization, performance, and emission characteristics of preheated jatropha oil methyl ester and ethyl ester' *Energy* Vol No. 270 Page no. 126870 **Impact Factor 9**

Biography

PRABHAT RANJAN

Department of Mechanical Engineering

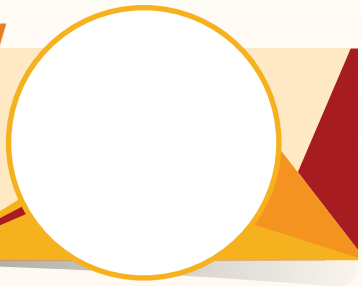
Prabhat Ranjan is a Ph.D. student in the Delhi Technical University. His research interests include FGM coating, Surface Engineering, and Optimization. He has completed his B. Tech. in Mechanical Engineering from BBIET&RC, Bulandshahr, and M.Tech. in Turbo Machine from SVNIT, Surat.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Ranjan P.**, Walia R.S., Kumar R., 2023, 'Morphological, microstructural and mechanical study of FGM coatings prepared using HVOf technique' *Journal of Mechanical Science and Technology* Vol No. 37 Page no. 5855-5864 **Impact Factor 1.6**

Biography



QASIM MURTAZA

Department of Mechanical Engineering

Award Summary and Publications Details

Citation Award
Cumulative Citation Award) Silver)
Yearly Citation Award) Early Research impact and Influence Awards(

Biography

RAVI KANT

Department of Mechanical Engineering

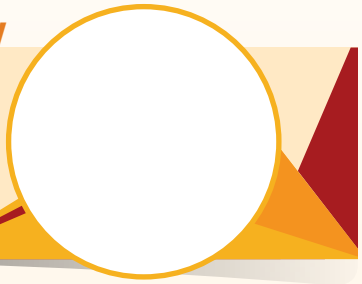
Ravi Kant is working as Associate Scientist in Sardar Patel Renewable Energy Research Institute, Vallabh Vidyanagar, Anand, Gujarat. He has completed his Ph.D. at Mechanical Engineering Department in Mechanical Engineering with specialization in Thermal Engineering from Delhi Technological University, Delhi (2019-2023). He has received his M.Tech. from Maulana Azad National Institute of Technology, Bhopal. Dr. Ravi Kant has published 8 SCIE indexed papers in reputed International Journals, and more than 5 Scopus indexed papers in International Conferences and Journals. He has received Gramodya-2022 award awrded by IIT Delhi Alumini Association, Research Excellance Award awarded by DTU, Delhi. His research areas of interests are solar energy systems, and solar desalination systems, Heat transfer, extraction of essential oil by solar energy.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Kant R.**, Kumar,A., 11 Jan, 2023 'Thermodynamic analysis of solar assisted steam distillation system for peppermint oil extraction' *Journal of Food Process Engineering* Vol No. 46 **Impact Factor 3**
2. **Kant R.**, Kumar M., Kushwah A., Kumar A., 2023 'Solar drying of peppermint leave: Thermal characteristics, drying kinetics, and quality assessment' *Journal of Stored Products Research* Vol No. 100 Page no. 102068 **Impact Factor 2.7**

Biography



RASHIN KHERA

Department of Mechanical Engineering

I am Rashin Khera, pursuing Ph.D. from Department of Mechanical Engineering at Delhi Technological University. Prior to this, I have completed M.Tech. in thermal engineering from Delhi Technological University, where my project delved into energy and exergy modelling of waste heat recovery from gas turbine power plant. Prior to that, I completed my B.Tech. in Mechanical Engineering from RTU, Kota.

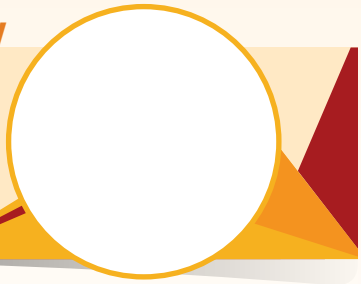
My Ph.D. research revolves around the thermal optimization of refrigeration systems. In my research work, I have proposed various methods to enhance the thermodynamic performance of refrigeration systems by employing mathematical modeling and subsequent multi-objective optimization. I have contributed to the academic community by publishing a research paper in an esteemed journal affiliated with Elsevier and attended some international conferences. Additionally, one research paper is in communication, and I am writing another research paper.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Khera R.**, Arora B.B., Arora A., 2023, 'Performance analysis and multi-objective optimization of a vortex tube integrated single-stage vapour compression refrigeration cycle' *International Journal of Refrigeration* Vol No. 154 Page no. 335-348 **Impact Factor 3.9**

Biography



RAJESH KUMAR

Department of Mechanical Engineering

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 23 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 25 M. Tech and 20 Ph. D. theses. He has published more than 45 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.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. Khalid F., **Kumar R.**, 2023, 'Thermodynamic assessment of a new PTC operated polygeneration system for freshwater, cooling, electricity and hydrogen production for a residential community' *International Journal of Hydrogen Energy* Vol No. 48 Page no. 38991-39001 **Impact Factor 7.2**

Biography

S. LALHRIATPUIA

Department of Mechanical Engineering

The individual's educational history demonstrates their commitment to excellence and their aspiration to pursue a career at top engineering institutions in a technologically advanced environment, where they can flourish in demanding situations. Currently working towards a Ph.D. degree at Delhi Technological University (DTU). The individual also completed an M.Tech in Thermal Engineering from Delhi Technological University (DTU), Delhi, and a B.Tech. in Mechanical Engineering from North Eastern Regional Institute of Science and Technology (NERIST), Itanagar.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Lalhriatpuia S.**, Pal A., 2023, 'Computational optimization of engine performance and emission responses for dual fuel CI engine powered with biogas and Co_3O_4 nanoparticles doped biodiesel' *Fuel* Vol No. 344 Page no. 127892 **Impact Factor 7.4**

2. **Lalhriatpuia S.**, Pal A., 2023,'Computational optimization of engine emissions and performance of a CI engine powered with biogas and NiO nanoparticles doped diesel' *Environmental Progress & Sustainable Energy* Vol No. 42 Page no. e14207 **Impact Factor 2.8**

Biography

PIU JAIN

Department of Mechanical Engineering

Mrs Piu Jain is a Research Scholar in the Department of Mechanical Engineering, Delhi Technical University, New Delhi. She holds a Batchelor's degree from BIT, Sindri and Master's degree from JSSAT Noida. Her areas of research include manufacturing issues in industry and mass customization. She has ten years of industrial experience in Indian manufacturing industries. She is also working as an Assistant Professor in the Department of Mechanical and Automation Engineering, Maharaja Agrasen Institute of Technology, Delhi. She has authored many research papers in international conferences and two research papers in International Journals

Award Summary and Publications Details

Category Name	No. of Publications
Commendable Research Award	1

1. **Jain, P.**, Garg, S., & Kansal, G. (2023). A TISM approach for the analysis of enablers in implementing mass customization in Indian manufacturing units. *Production Planning & Control*, *34*(2), 173-188. **Impact Factor 8.3**

Biography

SHUBHANGI CHOURASIA

Department of Mechanical Engineering

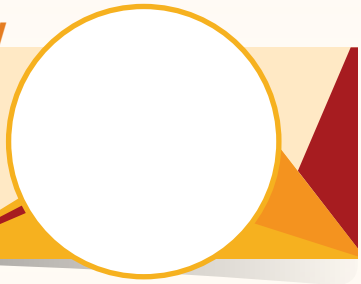
I am Shubhangi Chourasia, doing a Ph.D. (Part-Time) in mechanical engineering under Proff. Qasim Murtaza (Guide) and Dr. Saurabh Agrawal (Co-Guide). I have published 2 SCI papers.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Chourasia S.,** Murtaza Q., Agarwal S., Gupta K., June 2023,'Redefining Industry 5.0 in Ophthalmology and Digital Metrology: A Global Perspective' *MAPAN-Journal of Metrology Society of India* Vol No. 38(2) Page no. 527–545 **Impact Factor 1**

Biography



SHAHAZAD ALI

Department of Mechanical Engineering

I am Shahazad Ali, Research scholar in department of Mechanical Engineering, I am doing my PhD in composite materials under the supervision of Prof. Qasim Murtaza

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Ali S.,** Gupta P., Murtaza Q., 2023, 'Mr. Synergetic Effect of Gr-B4C Reinforcement on the Structural and Mechanical Properties of AA6351 Hybrid Metal Matrix Composites' *ECS Journal of Solid State Science and Technology* Vol No. 12 Page no. 67002 **Impact Factor 2.2**

Biography

SURAJ BHAN

Department of Mechanical Engineering

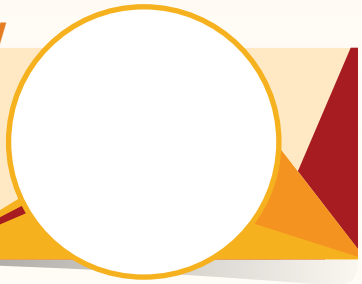
Suraj bhan graduated with B.tech from UPTU university with first division and M.tech from Alfalah university with honor degree. He is pursing a Phd in mechanical department of delhi technological university, delhi- 110042.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Bhan S.,** Gautam R., Singh P., 2023, 'Application of response surface approch to optimize CI engine parameters fuelled by newly developed waste cooking biodiesel in fused with Al_2O_3 nanoparticles' *Environmental progress and sustainable energy* Vol No. 42 Page no. e14151 **Impact Factor 2.8**

Biography



SUNIL KUMAR GUPTA

Department of Mechanical Engineering

Sunil Kumar Gupta is a part-time research scholar in Mechanical Engineering Department of Delhi Technological University. He obtained Master of Engineering degree from Delhi College of Engineering in 2002. He is a Lecturer (Mechanical Engineering) in regular capacity in the Department of Training and Technical Education, Delhi, which is now under the academic umbrella of Delhi Skill and Entrepreneurship University (DSEU).His research area is Refrigeration and Air-Conditioning. He is carrying out his research under the supervision of Prof. B.B. Arora and Prof. Akhilesh Arora. He has published three research papers in reputed SCI expanded journals and one technical brief published in ASME journal. Two SCIE papers are published by Springer (IF 1.5 and 2.2) and one SCIE paper is published by Elsevier (IF 3.9). One of his research article is also accepted for publication in ASME (Journal of Thermal Science and Engineering Applications).He has presented three papers in International Conferences.

Award Summary and Publication Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Gupta S.K.**, Arora B.B., Arora A., 2023, 'Effect of Evaporative Cooling of Condenser on the Performance of Air Conditioner' *Iranian Journal of Science and Technology, Transactions of Mechanical Engineering* Vol No. 47 Page no. 1661-1677 **Impact Factor 1.5**

2. **Gupta S.K.,** Arora B,B., Arora A., 13 Jan, 2023, 'Effect of varying ambient conditions on the performance of air conditioner using evaporative cooler '*Journal of the Brazilian Society of Mechanical Sciences and Engineering* Vol No. 45 **Impact Factor 2.2**

Biography

SANJEEV KUMAR

Department of Mechanical Engineering

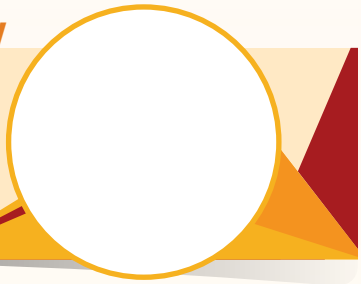
I am pursuing PhD in Mechanical Engg Deptt under the supervision of Prof Amit Pal. My area of research is life cycle analysis. I am working as Assistant Professor in Mechanical Engineering department in Delhi Skill and Entrepreneurship University.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Kumar S.,** Pal A., 2023, Life cycle analysis of biodiesel derived from fresh water microalgae and Karanja' *Sustainable Energy Technologies and Assessments* Vol No. 56 Page no. 103082 **Impact Factor 8**

Biography



SANKAR RAM T

Department of Mechanical Engineering

Mr Sankar Ram is a PhD scholar in the Department of Mechanical Engineering. The topic of his research is Stress analysis of Superconducting Magnets for MRI Scanners which is also partly conducted at Inter-University Accelerator Centre, New Delhi.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. Kar S., **Thekkethil S.R.**, Rastogi V.,2023, Multi-physics modelling of quench in a superconducting magnet using bond graph' *Physica C: Superconductivity and its Applications* Vol No. 604 Page no. 1354179 **Impact Factor 1.7**

2. Kar S., **Thekkethil S.R.**, Rastogi V.,2023, 'Multiphysics Stress Analysis of a 1.5 T Superconducting MRI Magnet' *Journal of Superconductivity and Novel Magnetism* Vol No. 36 Page no. 467 **Impact Factor 1.8**

Biography

SAKET KUMAR

Department of Mechanical Engineering

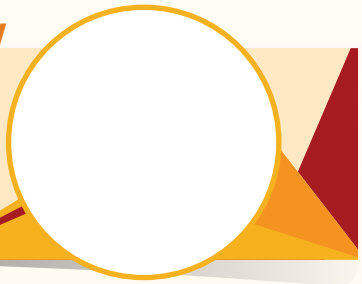
I am Dr. Ashish Kumar, a recent Ph.D. graduate in Mechanical Engineering from DTU. Currently serving as an Assistant Professor in the Mechanical Engineering department at Galgotias College of Engineering and Technology, my research focuses on developing lightweight materials for aerospace and automotive engineering. Proficient in advanced tools such as SEM, EDS, TEM, EBSD, Nanoindentation, Electrochemical Corrosion, and Mechanical properties, I am dedicated and work diligently to achieve research targets.

Award Summary and publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Kumar S.,** Gautam R., 2023, 'Energy and exergy assessment of diesel-tallow biodiesel blend in compression ignition engine for engine design variables' *Sustainable Energy Technologies and Assessments* Vol No. 57 Page no. 2213-1388, **Impact Factor 8**

Biography



SHARAT CHANDRA SRIVASTAVA

Department of Mechanical Engineering

Myself Sharat C. Srivastava, PhD student in deptt. of Mechanical Engg. at Delhi Technological University under the kind supervision of Prof. Qasim Murtaza & Dr. Paras Kumar.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Srivastava S. C.,** Murtaza Q., Kumar P., 2023, 'Microstructural analysis of microwave processed EWAC + Cr_3C_2 cladding on SS-304 substrate' *Physica Scripta* Vol No. 98 Page no. 11 **Impact Factor 2.9**

Biography

SURESH KUMAR GARG

Department of Mechanical Engineering

Prof. S. K. Garg is Professor and Former Pro Vice Chancellor Delhi Technological University (Formerly Delhi College of Engineering). He is the founder Head of Delhi School of Management, DTU, offering two year full time MBA and weekend MBA Programs. He headed the Training and Placement Deptt of DTU from 2008-13 and in 2012, DTU stood first in placements among all Engineering Institutions, as per All India Survey. He was an Independent Director in Rashtriya Ispat Nigam Limited, a Navratna Public Sector Enterprise, Govt. of India from 2012-15. Prof. Garg has more than 28 years of experience in teaching and Research and another four years in industry (Hero Honda Motors Ltd.). His teaching and research areas include Supply Chain Management, Logistics Management, Manufacturing Process Automation and Technology Management, Operations Management, Materials Management, Operations Research, Manufacturing Strategy, Production Planning and Control etc. He has guided 18 PhD thesis and five others are in progress. He has published more than 150 papers including above 100 in International Journals. He has visited Chile and USA in 1997 to present paper and visit Universities. In July 2013, he visited Georg August University, Gottingen, Germany a supervisor of DAAD research scholar under sandwich scheme and again in October as subject expert in Indo German Logistics Forum workshop. In 2016, he visited several universities of US and UK to understand their administrative and research eco system. He been to Cambridge University for one week as LEAP participant.

Award Summary and Publications Details

Citation Award
Cumulative Citation Award (Silver)
Yearly Citation Award (Early Research impact and Influence Awards)

Biography

SYED WASIUL HASAN RIZVI

Department of Mechanical Engineering

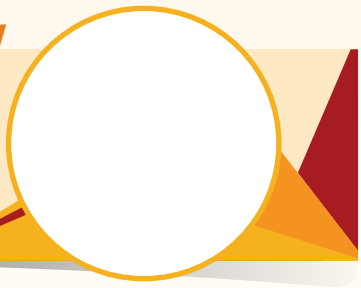
Syed Wasiul Hasan Rizvi is currently a PhD scholar at Delhi Technological University (DTU) in the Department of Mechanical Engineering. He gained his bachelors in mechanical engineering from Jamia Millia Islamia university (1999) based in New Delhi, India and his Masters in Industrial & Production Engineering (2016) from Al-Falah University, Faridabad, India and his other Masters in Information Technology (2003) from Universiti Putra Malaysia, Serdang, Malaysia. He is having about seven years of industry experience and about 10 years in teaching at both graduate and postgraduate levels. He has published many papers in national and international journals and conferences. His research interests include industrial engineering areas such as Supply Chain management, Human Factors Engineering and Ergonomics.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	1

1. **Rizvi S.W.H.,** Agrawal S., Murtaza Q., 2023, 'Automotive industry and industry 4.0-Circular economy nexus through the consumers' and manufacturers' perspectives: A case study' *Renewable and Sustainable Energy Reviews* Vol No. 183 Page no. 113517 **Impact Factor 15.9**

Biography



SUMIT JAIN

Department of Mechanical Engineering

Dr Sumit Jain received his PhD from Delhi Technological University, Delhi, in 2023. He has completed his M.Tech (Manufacturing System) and B.tech from Kurukshetra University, Kurukshetra, in 2014 and 2009, respectively. His teaching and research interests include Friction stir welding/Processing, Composite materials, strength of Materials, fluid mechanics and advanced materials. He has more than 11 years' teaching experience as an Assistant Professor in different institutions. Now, he is working as an Assistant Professor in the Department of Mechanical Engineering at Panipat Institute of Engineering and Technology, Panipat, India. He has published more than 30 research papers in reputed journals and conferences.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Jain S.,** Mishra R.S., & Mehdi H., 2023, 'Influence of SiC Microparticles and Multi-Pass FSW on Weld Quality of the AA6082 and AA5083 Dissimilar Joints' *Silicon* Vol No. 15 Page no. 6185–6197 **Impact Factor 3.4**

2. Mishra R.S., & **Jain S.,** 2023, 'Parametric Optimization of FSWed Dissimilar Composite Joints of AA7075 and AA6061 Using RSM' *Transactions of the Indian Institute of Metals* Vol No. 76 Page no. 2993–3006 **Impact Factor 1.6**

Biography

YUNIS KHAN

Department of Mechanical Engineering

Yunis Khan received his Phd degree from the department of Mechanical Engineering, DTU Delhi. He published 11 SCI Journal papers and 8 SCOPUS index journal papers and many peer reviewed journal/conferences papers. His research interest is Analysis, Design and Optimisation of Solar Thermal Technologies, Waste heat recovery, Multi-generation Energy Systems and Low Temperature Thermodynamic Cycles etc.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	2

1. **Khan Y.,** Mishra R.S., 2023, 'Performance analysis of a solar based novel trigeneration system using cascaded vapor absorption-compression refrigeration system' *International Journal of Refrigeration* Vol No. 155 Page no. 207-218 **Impact Factor 3.9**
2. **Khan Y.,** Rashidi M.M., Caliskan H., Chauhan M.K., Chauhan A.K., Raman R., 2023, 'Thermodynamic analysis and experimental investigation of the water spray cooling of photovoltaic solar panels' *Journal of Thermal Analysis and Calorimetry* Vol No. 148 Page no. 5591–5602 **Impact Factor 4.4**

Biography

DIVYASHIKHA SETHIA

Award Summary and Publications Details

Category Name	No .of Publications
Innovation Research Award:	01

Department of
Software Engineering

Biography

MASSOUD MASSOUDI

Department of Software Engineering

I am Massoud Massoudi, an Assistant Professor at Parwan University in Afghanistan Commencing my Ph.D. in the Software Engineering Department at Delhi Technological University in 2018, I concluded the program in 2023. With nearly 12 years of teaching experience, I have published numerous research papers in peer-reviewed journals and IEEE conferences. Currently, I serve as a Guest Faculty in the Software Engineering Department at Delhi Technological University.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	02

1. Malhotra R., **Massoudi M.,** Jindal R., 2023, 'An alumni-based collaborative model to strengthen academia and industry partnership: The current challenges and strengths', *Education and Information Technologies The official Journal of the IFIP Technical Committee on Education* 28, 2263–2289, **Impact Factor 5.5**

2. Malhotra R., **Massoudi M**., Jindal R.,2022, 'Shifting from traditional engineering education towards competency-based approach: The most recommended approach-review', *Education and Information Technologies 28*, p8, **Impact Factor 5.2**

Biography

RAHUL

Department of Software Engineering

Mr. Rahul is currently designated as Assistant Professor in the Department of Software Engineering, Delhi Technological University (DTU), Delhi, India since 2017. He is also pursuing his PhD Degree (Part Time) in the Department of Computer Science & Engineering, DTU, Delhi, India. He has published more than 40 research papers in International Conferences and Journals (Scopus and Web of Science indexed). His research area of interest includes Machine learning, Social Networking, Deep Learning, and Sentiment Analysis.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Rahul**, Katarya R.,2023, 'Deep auto encoder based on a transient search capsule network for student performance prediction', *Multimedia Tools and Applications 82*, 23427–23451, **Impact Factor 3.6**

Biography

ROSHNI SINGH

Department of Software Engineering

Roshni Singh is a Ph. D Research Scholar in Software Engineering Department, at Delhi Technological University, Delhi, India. She received her Master's in Computer Science Engineering in the year 2017 from Madan Mohan Malviya University and she obtained her B.Tech Computer Science Engineering in the year 2013 from Punjab Technical University India. She has 3 years of Teaching Experience in Motilal Nehru National Institute of Technology Allahabad (MNNIT) and 1 year of industrial experience in IBM Cloud. Her research interests include Computer Vision, Image Processing, etc.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. Sharma A., **Singh R.,** 2023, "ConvST-LSTM-Net: convolutional spatiotemporal LSTM networks for skeleton-based human action recognition", *International Journal of Multimedia Information Retrieval* 12, 34, **Impact factor 5.6**

Biography

RUCHIKA MALHOTRA

Department of Software Engineering

Prof. Ruchika Malhotra is Head of Department and Professor in the Department of Software Engineering, Delhi Technological University, Delhi, India. 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, and 2023. She is recipient of Commendable Research Award (in 2018, 2019, 2020, 2021, 2022, and 2023) by Delhi Technological University. Her h-index is 36 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 245 research papers in international journals and conferences. Her research interests are in software testing, improving software quality, statistical and adaptive prediction models, software metrics and the definition and validation of software metrics.

Award Summary and Publications Details

Citation Award	
Cumulative Citation Award) Gold)	
Yearly Citation Award) Early Research Impact and Influence Award(	
Category Name	**No .of Publications**
Commendable Research Award	04

1. **Malhotra R**., Singh P.,2023,'Recent advances in deep learning models: a systematic literature review', *Multimedia Tools and Applications* 82, 44977–45060, **Impact Factor 3.6**

2. Kessentini M., **Malhotra R.**, Jain B., 2023, 'Examining deep learning's capability to spot code smells: a systematic literature review', *Cluster Computing The Journal of Networks, Software Tools and Applications 26*, 3473–3501, **Impact Factor 4.4**

3. **Malhotra R.**, Massoudi M., Jindal R.,2023,'An alumni-based collaborative model to strengthen academia and industry partnership: The current challenges and strengths', *Education and Information Technologies The official Journal of the IFIP Technical Committee on Education* 28, 2263–2289, **Impact Factor 5.5**

4. Sharma A., **Malhotra R.**, Chawla S.,2023, 'Software defect prediction using hybrid techniques: a systematic literature review', *Soft Computing 27*, 8255–8288, **Impact Factor 4.1**

Department of

USME

Biography

MEHAK NANDA

USME

Mehak Nanda is a Research Scholar in the Department of Management, Delhi Technological University, East Delhi Campus. She has contributed several research papers in reputed journals published by Oxford, Elsevier, Springer, Wiley, and Sage. Her areas of research interest include health expenditure and public health.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	01

1. **Nanda M.,** 2023, 'A comprehensive examination of the economic impact of out-of-pocket health expenditures in India', *Health Policy and Planning* 38, 926–938, **Impact Factor 3.2**

Biography

NAVAL GARG

USME

Naval Garg is an Assistant Professor (HR & OB) in University School of Management and Entrepreneurship, Delhi Technological University, New Delhi. His areas of interest are workplace spirituality, gratitude and business ethics. He has published more than seventy papers in various international and national journals. He has also edited an book on workplace spirituality.

Award Summary and Publications Details

Category Name	No .of Publications
Commendable Research Award	03

1. **Garg N.,** 2023, 'Development and Validation of Hindu Gratitude Scale (HGS-15): A Rnas Perspective', *Journal of Religion and Health* 62, 3622–3639, **Impact Factor 2.8**
2. **Garg N**., 2023, 'Validation of the Transpersonal Gratitude Scale (TGS) and the Relationship between Transpersonal Gratitude, Spiritual Well-Being and Distress in India', *Journal of Religion and Health* 62, 3604–3621, **Impact Factor 2.8**
3. Mehak, **Garg N**., 2023, 'Gratitude resentment and appreciation scale (GRAT-16): analyzing psychometrics properties in the Indian context', *Current Psychology 42* , 8771–8780, **Impact Factor 2.8**

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DTU

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Dept. of Applied Chemistry

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