



## MSIT CSE NEWSLETTER



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# TECHNOPULSE

This Newsletter showcases the achievements of the Computer Science Department of Maharaja Surajmal Institute of Technology.

The CSE department has published numerous journal entries, patents, articles, books, and research on various topics from all walks of life. It also includes all the fun and educational events the department has organized.

## Our Vision

To maintain academic excellence aiming to produce competent technocrats imbued with ethical values to serve the national emerging technological needs.

## Our Mission

To impart quality education to the students by providing effective teaching, learning, research, and application based innovative environment.

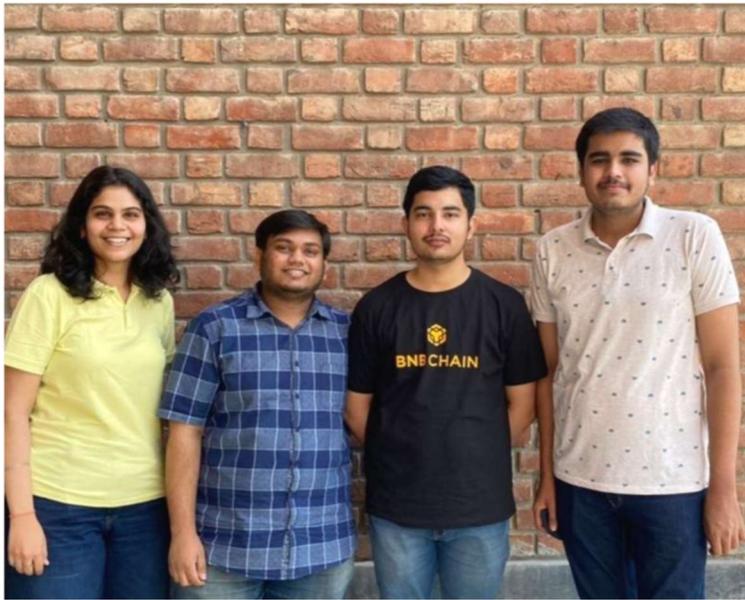
To include creativity, team-spirit, leadership, and ethical competence through continuous collective curricular, co-curricular and extracurricular activities.

# SOFTWARE DEVELOPMENT CELL

Maharaja Surajmal Institute of Technology, Janakpuri, New Delhi inaugurated “Software Development Cell (SDC)” in the institute premises on 13 April 2022. The SDC was jointly inaugurated by Sh. Kaptan Singh, President, Surajmal Memorial Education Society and Prof. Pratap Singh Desai, President, Indian Society for Technical Education (ISTE) along with Prof. Vijay Vaidya, Executive Secretary, Indian Society for Technical Education (ISTE). The aim of the cell is to develop software in-house for various needs of the institute. The cell is composed of teaching staff, students as well as alumni of the institute.



# Shining Stars of MSIT



A 24-hour hackathon organized by the Netaji Subhas University of Technology Team 'Jupiter', a four-member team from Maharaja Surajmal Institute of Technology won the InnovateNSUT hackathon organized by International Organization of Software Developers at Netaji Subhas University of Technology. The team built an online crowdfunding platform using blockchain technology that incentivizes donors for their contributions in the campaigns running on the portal. The four-member team includes Tushar Ojha, Nihal Gupta, Ishani Kohli and Vaibhav Krishan Yadav from 3rd year, Department of Computer Science and Engineering. The team was appreciated for their commendable performance in showcasing an end-to-end product and implementation in just a 24-hour hackathon.

Support the project at <https://twitter.com/giftamatic>



Mr. Bhuvnesh was presented a participation certificate in recognition of outstanding contribution to the Online World Martial Arts Masterships in 2021 by the president of the association.



# Placements

- **Yogesh Chhabra**, student of CSE department has achieved Rs 22 LPA package in Ixigo.
- **Ankur Gupta**, student of CSE department has achieved Rs 22 LPA package in Bright Money.
- **Shivani Dogra**, student of CSE department has achieved Rs 21 LPA package in Goldman Sachs.
- **Samrath Srivastava**, student of CSE department has achieved Rs 20 LPA package in Upstox.
- **Kartik Sood**, student of CSE department has achieved Rs 20 LPA package in Amazon.

# Internships

Name	Batch	Company Name	Year Of Internship	Duration (in months)	Stipend (amount per month)
Manan Chhabra	2018 - 2022	BNP Paribas	2022	5	50000
Anushka Agrawal	2018 - 2022	Amazon	2022	5 months	50,000
Anant Mathur	2018 - 2022	CommeceIQ	2021-2022	12	100000
Shashwat Tyagi	2018-2022	Relevel by Unacademy	2022	6	50000
Sakshi Munjal	2018-2022	Microsoft	2021	2.5	80000
Sakshi Munjal	2018-2022	Velvet	2022	3	70000
Sakshi Munjal	2018-2022	MX Player	2022	3	50000
Vidhi Angrish	2018-2022	BNY Mellon	01/22 to 06/22	6 months	
Siddharth Sen	2018-2022	Fampay	08/21 to 06/22	Option 1	
Ishika Aggarwal	2018-2022	Amazon	01/22 to 06/22	6 months	
Kirti Singh			02-2022 to 06-2022		
Duhan	2018-2022	Amazon	2022	5 Months	
Ritik Ramuka	2019-2023	Microsoft	2022	2	125000
Tushar Ojha	2019-2023	Groww	2022	6	61000
Ritik Ramuka	2019-2023	Pepcoding	2021-22	7	75000
Gaurav Aggarwal	2019-2023	opg securities and lions roar solution	2021-till now	currently working	variable
Prince Gupta	2019-2023	Google	2022	12 weeks	1.1L
Jayashy Sinha	2019-2023	ServiceNow	2022	10 weeks	70K
Manokamna Sharma	2019-2023	Adobe	2022	10 weeks	1 L
Paramjot Singh	2019-2023	Microsoft	2022	8 weeks	1.25 L
Rohitesh Jain	2019-2023	Mitacs	2022	12 weeks	1.25 L
Himanshu Goel	2019-2023	Summer of Bitcoin	2022	12 weeks	approximately 80k
Yashi Shukla	2019-2023		2022	2-May-2022	27-June-2022

# E- Yantra

Four faculty members i.e., **Dr. Priyanka Nandal**, **Dr. Sapna Malik**, **Dr. Sonia Rathee** and **Dr. Shalu Mehta** of CSE Department along with the nine selected students successfully completed 50 days online crash course on Embedded system and Robotics which was conducted as a part of MOOC through e-Yantra Resource Development Center (eYRDC) by ERTS Lab, Department of Computer Science and Engineering, IIT Mumbai. The training was sponsored by MSIT.

S. No.	Role	Teacher's Name	Designation
1	Team Coordinator	Dr. Priyanka	Associate Professor
2	Team Member	Dr. Sapna Malik	Assistant Professor
3	Team Member	Dr. Sonia Rathee	Assistant Professor
4	Team Member	Dr. Shalu	Assistant Professor

List of students		
Enrollment No.	Student Name	Year
715002720	Abhishek Gupta	CSE-1, 5th Sem
9015002720	Naman Vyas	CSE-2, 5th Sem
6015002720	Gunjan Gupta	CSE-2, 5th Sem
20415002720	Kunal Bhandari	CSE-2, 5th Sem
9315002720	Omesh	CSE-2, 5th Sem
6415002720	Harsh Ojha	CSE-2, 5th Sem
7515002720	Hitesh Rana	CSE-2, 5th Sem
20615002720	Arjun Handa	CSE-3, 5th Sem
14115002720	Tivranshu	CSE-3, 5th Sem

# International Internships

**Rohitesh Kumar Jain:** CSE-3rd yr. Carleton University Ottawa Canada, under AICTE & Mitacs 2022 Globallink Research Internship program jointly sponsored by AICTE, Govt. of India and Mitacs, Govt. of Canada. Duration of research: 12 weeks during 27-07-22 to 22-10-22. Research Project title Mobile applications: adding simulation to your smart phone Clone (1) Financial Arrangement: funding will provide in accordance with the AICTE New Delhi. Although Mitacs Canada will provide: -1. Airfare Can\$1,500. 2. Can\$175 transportation 3. Can\$200/- week living stipends. 4. Can\$45/- per day for HR. 5. Can\$300/- for fees to the institutions 6. Can\$240 immigration fees. 7. Can\$ 500 for medical expenses.

**Prince Gupta:** CSE -3rd Yr - (i) Stipend Rs. 1.10 Lac Per Month with company Google for 12 weeks during 09-05-22 to 29-07-22 (ii) Stipend Rs. 3.20 Lac Per Month backend internship at Mercari Tokyo Japan for 3 months during 15-08-22 to 15-11-22. (iii) Stipend Rs. 50,000/- Per Month backend internship at Sharechat for 10 months during 16-06-21 to 31-03-22.

**Ekjot Kaur:** CSE- 3rd YR – (i)International Internship with MITACS – GRI, Govt. of Canada, Research Intern at the University of Guelph. Project titled “Sustainable Management of Animal Species Using Simulations and Agent Based Models”. (ii) Stipend Rs. 1 Lac Per Month at Adobe

06 Students with Microsoft @ 1,25,000/- Per Month, 02 Students with Google @ 1,20,000/- PM, 03 Students with ADOBE @ 1,00,000/- PM, 40 Students stipend more than Rs. 50,000/- Per Month

**Total Internship: 105 Student (Batch 2022) + 548 Student (2021 batch) = 653 Interns**

# IEEE CS Report

## Jan 2022-June 2022

Sr. no	Title	Date	Speaker	Participants
1	Industrial Talk on Web Development	26 February 2022	Mr. Swapnil Narayan	70
2	Path to Top Product Based Companies	21 March 2022	Mr. Rajneesh Kumar & Mr. Aman Kumar	170
3	Workshop on Introduction to Machine Learning	11 April 2022 – 12 April 2022	Mr. Prateek Bhardwaj	30

# JOURNALS

- **Rinky Dwivedi, Associate Professor, Vidwan ID - 241399,** “An ensemble model to optimize modularity in dynamic in bipartite networks” published by International Journal of system assurance engineering and management, Indexing: ESCI and Scopus
- **Rinky Dwivedi, Associate Professor, Vidwan ID - 24139 and Koyel Datta Gupta, Vidwan ID – 240950,** “Predicting and monitoring COVID-19 epidemic trends in India using sequence-to-sequence model and an adaptive SEIR model” published by Open Computer Science, Indexing: ESCI & SCOPUS
- **Koyel Datta Gupta, Associate Professor, Vidwan ID-240950,** “Mitigation of black hole attacks in 6LoWPAN RPL-based Wireless sensor network for cyber physical systems” published by Computer Communications, Indexing: SCIE
- **Koyel Datta Gupta, Associate Professor, Vidwan ID-240950,** “Blockchain Tree Powered Green Communication for Efficient and Sustainable Connected Autonomous Vehicles” published by IEEE Transactions on Green Communications and Networking, Indexing: SCIE
- **Rinky Dwivedi, Associate Professor, Vidwan ID – 241399,** “A Dynamic Visual Analytical Approach for Crime-Transformation to Better Decision Making” published by Journal of Logistics, Informatics and Service Science, Indexing: Scopus
- **Amita Yadav, Associate Professor, Vidwan ID 241017,** "An IoT Method for Telemedicine: Lossless Medical Image Compression Using Local Adaptive Blocks," in IEEE Sensors Journal, 2022, Indexing: SCIE

# JOURNALS

- **Kavita Sheoran, Associate Professor, Vidwan ID - 241003 & Geetika Dhand, Associate Professor, Vidwan ID - 240999**, "Solving Connect 4 Using Optimized Minimax and Monte Carlo Tree Search" published by Advances and Applications in Mathematical Sciences, Indexing: ESCI
- **Navdeep Bohra, Assistant Professor, Vidwan ID - 241019** "Social Media Popularity Prediction by TTM Clustered Bayesian Factorization" published by Advances and Applications in Mathematical Sciences, Indexing: ESCI
- **Navdeep Bohra**, "A TCAD Approach to Analyze the Performance of Dual Gate Dielectric Modulated Vertical Tunnel Field Effect Transistor Based Biosensor" published by MAPAN, Indexing: SCIE
- **Pooja Kherwa**, "A Survey on Semantic Annotation Tools on Knowledge Management", published by International Journal of Engineering Applied Sciences and Technology, Indexing: Google Scholar
- **Adeel Hashmi**, et al. "Contrast Enhancement in Mammograms Using Convolution Neural Networks for Edge Computing Systems." Scientific Programming 2022 (2022).
- **Neeti Sangwan and Vishal Bhatnagar**. "A Framework for Video Popularity Forecast Utilizing Metaheuristic Algorithms." Arabian Journal for Science and Engineering. 47, (2022): 2077-2094.
- **Deshwal, D., Sangwan, P. & Dahiya, N.** Economic Analysis of Lithium-Ion Battery Recycling in India. Wireless Pers Commun (2022). <https://doi.org/10.1007/s11277-022-09512-5>.

# CONFERENCE PUBLICATIONS

- **Vimal Gaur, Assistant Professor, Vidwan ID - 241010, Dr. Rinky Dwivedi, Associate Professor, Vidwan ID - 241399,** published “Conversion of Sign Language into Devanagari Text using CNN” at the International Conference on Computational Intelligence and Communication Technology which was published by Springer.
- **Vimal Gaur, Assistant Professor, Vidwan ID - 241010,** published “Multiclass Classification for DDoS Attacks Using LSTM Time-Series Model” at 7th International Conference on Computing in Engineering and Technology which was published by 7th Edition of DBATU Conference Series organized by Department of E & TC Engineering.
- **Vimal Gaur, Assistant Professor, Vidwan ID - 241010,** published “Design and Development of Loan Predictor Using Machine Learning” at 7th International Conference on Computing in Engineering and Technology which was published by 7th Edition of DBATU Conference Series organized by Department of E & TC Engineering.
- **Priyanka Nandal, Associate Professor, Vidwan ID - 241004,** published “A Hybrid Model for Review Analysis using Deep Learning”, at 4th International Conference on Communication and Computational Technologies which was published by Springer.

# CONFERENCE PUBLICATIONS

- **Kavita Sheoran, Associate Professor, Vidwan ID - 241003**, published the “Traffic sign Recognition Using CNN” at 3rd international conference on emerging technologies in Data Mining and information Security (IEMIS 2022) published by Springer.
- **Geetika Dhand, Associate Professor, Vidwan ID - 240999**, published “Diabetes Prediction System” IDoSCI-2022 published by Elsevier, SSRN.
- **Geetika Dhand, Associate Professor, Vidwan ID - 240999**, published “Secure Health System” IDoSCI-2022 which was published by Elsevier, SSRN.
- **Geetika Dhand, Associate Professor, Vidwan ID - 240999**, published “Music Recommendation Using Sentiment Analysis from Facial Recognition” IDoSCI-2022 published by Elsevier, SSRN.
- **Vimal Gaur, Assistant Professor, Vidwan ID - 241010**, published “FSMDAD: Feature Selection Method for DDoS Attack Detection” at International Conference on. Electronics and Renewable Systems (ICEARS 2022). Tuticorin, India which was published by

# CONFERENCE PUBLICATIONS

- **Vimal Gaur, Assistant Professor, Vidwan ID - 241010**, published “ET-RF Based Model for Detection of Distributed Denial of Service Attacks” at International Conference on Sustainable Computing and Data Communication Systems (ICSCDS-2022) which was published by IEEE.
- **Vimal Gaur, Assistant Professor, Vidwan ID - 241010**, published “DDoSLSTM: Detection of Distributed Denial of Service Attacks on IoT Devices using LSTM Model” at International Conference on Communication, Computing and Internet of Things (IC3IoT'22) which was published by IEEE.
- **Amita Yadav- Associate Professor, Vidwan ID- 241017, Sonia Rathee Assistant Professor, Vidwan ID 241006 & Shalu, Assistant Professor, Vidwan ID 241002** "Natural Language Based Naïve Bays Classifier Model for Sentence Classification" international conference on innovative computing and communication (ICICC-2022) published by Springer.
- **Amita Yadav Associate Professor, Vidwan ID 241017**, "Analysis of Various Chaos Based Image Encryption Method" in ICIDSSD'22 at Jamia Humdard University.

# PATENTS

- **Dr. Kavita Sheoran, Associate Professor, Vidwan ID - 241003**, invented the “IOT based speaker Reorganization system” with patent no. 202211003534A
- **Dr. Geetika Dhand, Associate Professor, Vidwan ID - 240999**, invented the “IOT Based Waste Management System” with patent no. 202211003443A
- **Dr. Sapna Malik, Associate Professor**, invented the “System and method for early detection and post disease care of dementia patients” with patent no. 202211001585.
- **Dr. Kavita Sheoran, Associate Professor, Vidwan ID - 241003**, **Dr. Geetika Dhand, Associate Professor, Vidwan ID - 240999**, invented the “IOT Based E-Challan System for Real Time face mask Detection for transport enforcement” with patent no. 202211028015
- **Dr. Priyanka Nandal, Associate Professor, Vidwan ID - 241004**, invented “New computing paradigm for communications through edge computing” with patent no. 202211031844
- **Dr. Sangeeta** has published patent on "Blueprint of green sustainable and clean renewable energy"

# SPECIAL ACHIEVEMENTS

**Dr. Rinky Dwivedi** has successfully guided one Ph.D. student in 2022. The candidate, Ms. Neelu Chaudhary was enrolled in Department of Computer Science & Technology under Faculty of Engineering of Manav Rachna University, Faridabad. The topic of the doctoral thesis is ***Mining and Analysis of Evolving Patterns in Dynamic Graphs.***



**Dr. Koyel Dutta Gupta** was topper in MOOCS DBMS Course with **90% score.**

**Dr. Kavita Sheoran** was awarded the best paper award for the paper entitled to **Traffic Sign Recognition using CNN** in the session Technical Session 3.3/Pattern Recognition II in International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS) 2022.



# SPECIAL SESSION AND GUEST LECTURE

- **Dr. Kavita Sheoran, Associate Professor, Vidwan ID - 241003, Dr. Geetika Dhand, Associate Professor, Vidwan ID - 240999**, at 3rd International Conference on emerging technologies in data mining and Information Security, Institute of Engineering and Management Group, Kolkata.
- **Dr. Kavita Sheoran, Associate Professor, Vidwan ID - 241003, Dr. Geetika Dhand, Associate Professor, Vidwan ID - 240999**, at ICICC-2022, Shaheed Sukhdev college of business studies University of Delhi.
- **Amita Yadav, Associate Professor, Vidwan ID- 241017, Shalu, Assistant Professor, Vidwan ID-241002** at 3d international conference on ICT for Digital, smart and sustainable development ICIDSSD. Jamia Humdard University, New Delhi.

# New Joining's of Year 2022



**Ms. Kirti Dahiya**

**Joined as assistant professor on 07/06/2022.  
2 year 3 months of teaching experience**



**Ms. Jyoti**

**Joined as assistant professor on 06/06/2022  
1 year 2 months of teaching experience**

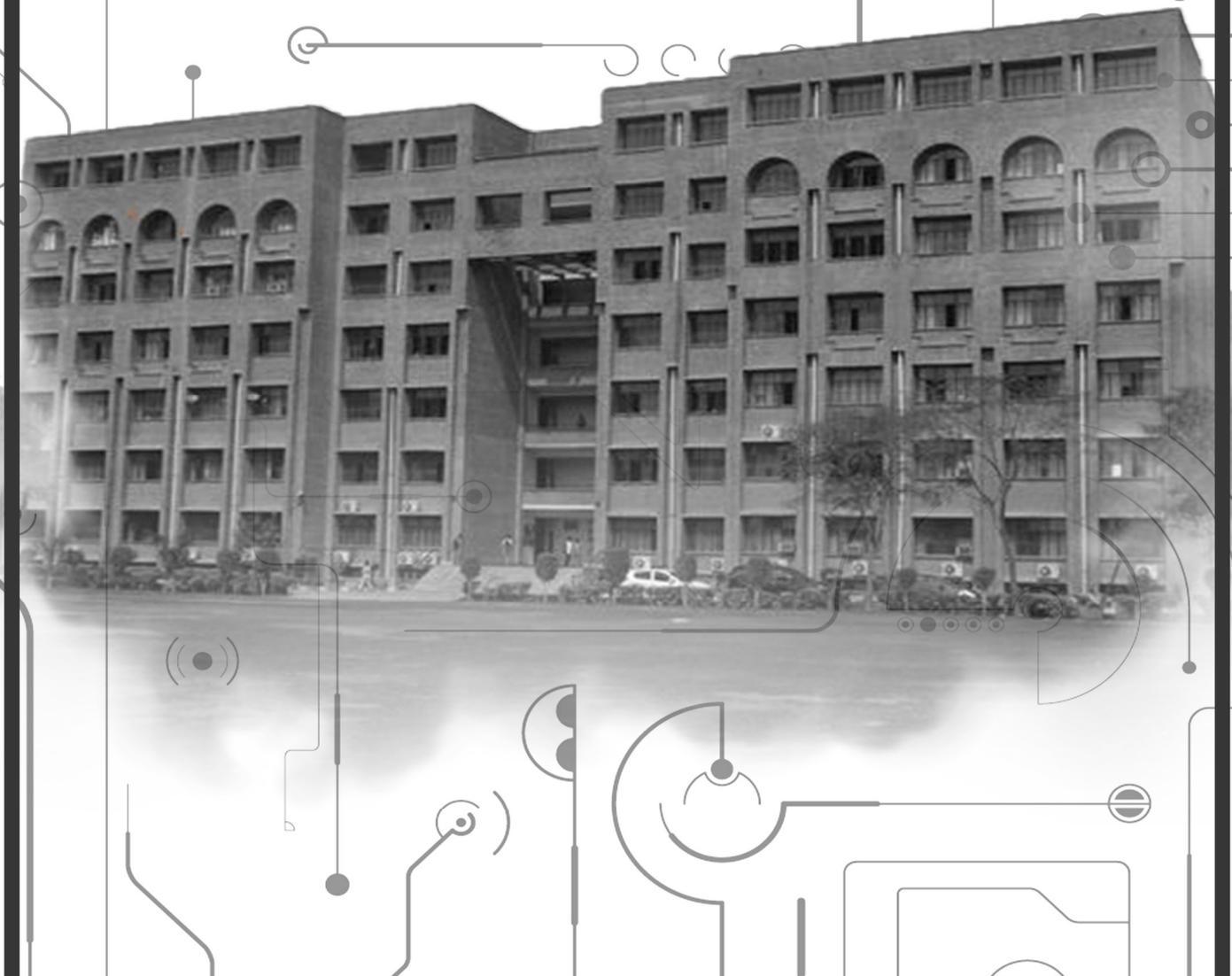


**Ms. Vaani Garg**

**Joined as assistant professor on 06/06/2022  
Qualified UGC-NET examination for computer science  
and applications  
She is pursuing PhD from Delhi Technological  
University, New Delhi**

# EVENT GALLERY





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