



# REFLECTIONS



## MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY



**SH. KAPTAN SINGH**  
CHAIRMAN



**SH. AJIT SINGH CHAUDHARY**  
SECRETARY



**PROF. (Dr.) ARCHANA BALYAN**  
DIRECTOR

## ABOUT THE INSTITUTE

Maharaja Surajmal Institute Of Technology (Affiliated to GGSIPU | NAAC Accredited 'A' Grade | NBA (CSE, IT, ECE,EEE) | Approved by AICTE | ISO 9001:2015 Certified) is ideally located in the Institutional area of Janakpuri, New Delhi. Established in 2001, MSIT has a campus spread over eight acres of land with beautiful eco-friendly surroundings. Institute was earlier operating from four storeyed building of 6279 sq. metre of built-up area. Recently it has been shifted to a more spacious seven storeyed building with built up area of 17837 sq. metre. The institute has over a short span of time acquired and developed impressive infrastructure, expertise and resources for imparting high quality engineering education. The institute offers B.Tech courses in CSE, ECE, IT and EEE with total intake of 780 student.

# Maharaja Surajmal Institute of Technology

## VISION

To become one of the most admired centers of academic excellence in the field of Engineering & Technology for all-round professional development of students to enable them to meet the growing technological needs of the country.

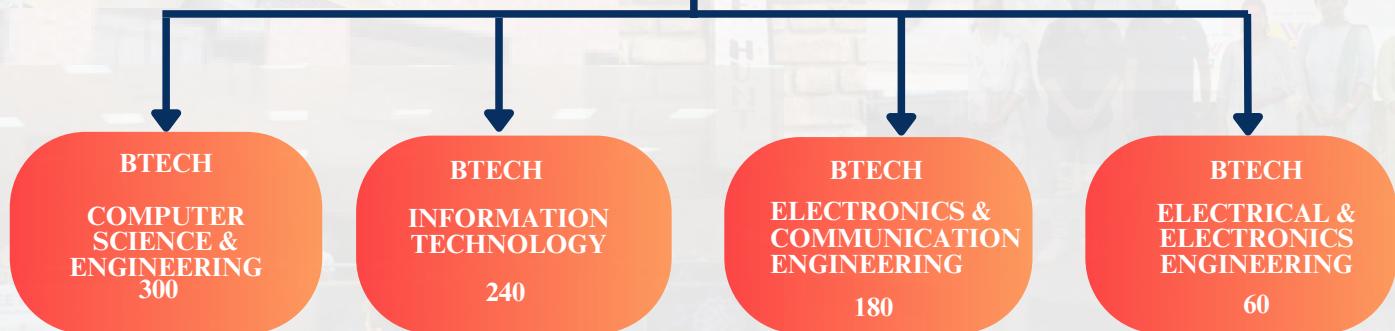
## MISSION

Developing new paradigm in imparting education in the fields of Engineering and Technology and to imbibe national values leading to student's empowerment, with a view to prepare them to meet the national and global challenges.





# COURSES OFFERED



# STUDENTS SOCIETIES

NSS IIC E-CELL IEEE PRAKRITI MUTANTS  
VEDA TECHSOC UBA EBSB E-YANTRA NISP  
IIC GDSC





# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## PAPERS PUBLISHED IN THE JOURNALS

- Jatana, N., Singh, M., Gupta, C., Dhand, G., Malik, S., Dadheech, P., ... & Aneja, S. (2024). Differentially processed optimized collaborative rich text editor. Multimedia Tools and Applications, 1-16.
- Singh, S., Jatana, N., Sehgal, S., Anand, R., Arunkumar, B., & Ramesh, J. V. N. (2024). Making Digital Payments Accessible Beyond Sight: A Usability Study of UPI-Based Smartphone Applications. IEEE Access.
- Jatana, N., Wadhwa, D., Singh, N. K., Hassen, O. A., Gupta, C., Darwish, S. M., ... & Abdulhussein, A. A. (2024). Future Frame Prediction using Generative Adversarial Networks. Karbala International Journal of Modern Science, 10(1),

## PAPERS PUBLISHED IN THE CONFERENCE

- Dr. Nishtha Jatana, Ms. Vaani Garg, Dr. Shaily Malik, Dr. Divya, Dr. Geetika Dhand, Dr. Kavita Sheoran presented “Search Space Reducer for Text Analysers and Compilers” in 4th International Conference on ICT for Digital, Smart and Sustainable Development conducted from 23/4/2024 to 24/4/2024
- Dr. Nishtha Jatana presented “User Profile Management using Deep Learning for Assistive Headgear” in International Conference on Artificial Intelligence and Applications (ICAIA'24) conducted from 19/3/2024 to 20/3/2024
- Dr. Nishtha Jatana presented “A Multi-Key Authentication and Data Sharing Model in Blockchain Networks” in International Conference on Artificial Intelligence and Applications (ICAIA'24) conducted from 19/3/2024 to 20/3/2024
- Dr. Nishtha Jatana, Dr. Divya, Dr. Shaily Malik, Ms. Vaani Garg, Dr. Geetanjali Sharma presented “A Real time Camera based Motion Sensing Game” in 2nd International Conference on Knowledge Engineering and Communication conducted from 18/4/2024 to 19/4/2024
- Dr. Shaily Malik, Dr. Nishtha Jatana, Dr. Divya Jatain, Ms. Vaani Garg, Dr. Geetanjali Sharma, Dr. Amita Yadav presented “Deep Non-Negative Matrix Factorization Model For clustering-based image denoising” International Conference on Artificial Intelligence and Applications (ICAIA'24) conducted from 19/3/2024 to 20/3/2024



# DEPARTMENT OF INFORMATION TECHNOLOGY

## PAPERS PUBLISHED IN THE JOURNALS

- Tripti Sharma and Mamta Gahlan. "NeuArt- Style Transfer Using VGG19 & RESNET50 and their Comparison", International Journal of Research Publication and Reviews, Vol 5, no 1, pp 2246-2251 January 2024, Google Scholar.
- Tripti Sharma and Neetu Anand," Comparison of Various Youtube Transcript Summarizer Transcript Summarizer Techniques:, International Journal of Progressive Research in Engineering Management and Science, vol.4(1), 53-56, 2024, ISSN 2583-1962.
- J. Arora, S. Rathee, M. Gahlan, A. Yadav and Shalu, " Diabetes prediction using feature engineering and machine learning algorithms with security." Journal of Statistics & Management Systems, vol. 27(2), 273-284, 2024. ISSN 2169-0014, 2024.
- J. Arora, P. Kherwa and M. Tushir, "A comprehensive survey on the significance of industrial Internet of Things, energy management and big data analytics." Journal of Information & Optimization Sciences, vol. 45(2), 247-256, 2024, ISSN 2169-0103.
- J. Arora, B. Malhotra, P. Agarwala and C. Chandwani, "Analysis of Density-Based Clustering Algorithm Variants on Real-World and Gaussian Motion Datasets," 2024 14th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2024, pp. 205-211.
- J. Arora, J. Kumar, K. Kumar, K. Samadhiya, "Impact of Climate Change on Bird's Species using Species Distribution Model (SDM)," International Journal of All Research Education and Scientific Methods (IJARESM), vol. 12 (5), May 2024.
- Malik, S., & Jain, S. (2024). Deep Convolutional neural network for knowledge-infused text classification. New Generation Computing, 1-20. SCI-E.
- Singh, Akshay & Gosain, Anjana, "Catalyzing medical imaging : Exploring the potentials of deep transfer learning", Journal of Information and Optimization Sciences, 45:2, 439–448, 2024.
- Anupama Kaushik, Shruti Sagar, Sameep Punjani, Priyanshu Mahendra, " SOS Sync". International Journal of Computer Applications, 186(6): 6-13, January 2024.
- Mamta Gahlan, R.K Aggrawal "Novel Human Activity Recognition by graph engineered ensemble deep learning model" IFAC Journal of Systems and Control 12 March 2024



# DEPARTMENT OF INFORMATION TECHNOLOGY

## PAPERS PUBLISHED IN THE JOURNALS

- Mamta Gahlan, R.K Aggrawal, Advancing Human Activity Recognition: A Novel WAECN-BO Approach for Distinguishing Highly Correlated Actions Evergreen Journal Green Asia Strategy Jan 2024.
- Ashish Kumari, Navdeep Bohra, Deepti Deshwal, Amita Yadav, Anamika Rana “ANOMALY DETECTION IN ONLINE SOCIAL MEDIA THROUGH ADVANCED AI TECHNIQUES AND TOPIC MODELING” published in Proceedings on Engineering Sciences, March 2024. doi: 10.24874/PES.SI.25.03A.011
- Dr. Sitender malik published a paper on “Deep learning based predictive analysis of energy consumption for smart homes” in Multimedia tools & Application
- Dr.Sitender Malik published a paper on “High rainfall event identification using remote sensing satellite data in Proceedings of the Indian National Science Academy.
- Dr. Minakshi Tomer & Dr.Tripti Rathee published a paper on A Novel Approach of Stock Price Forecast Using Deep Learning Practices in International Journal of Intelligent Systems and applications in Engineering in February 2024

## PAPERS PUBLISHED IN THE CONFERENCES

- Dr. Sonika Malik, Dr. Preeti Rathee presented a paper ”Enhancing Covid-19 Diagnosis Accuracy and Transparency with XAI Techniques” in ICAIA 2024 dated 19th-20th March 2024.
- Prabhjot Kaur et al. presented a paper “Noisy digital image segmentation based on different similarity measures using clustering approach”, in 2nd International Conference on Artificial Intelligence and Applications, MSIT, Delhi, 19-20 March, 2024.
- Mr. Akshay Singh presented a paper “A Comparative Analysis of Deep Transfer Learning Techniques for Mammographic Image Classification” in ICAIA 2024 dated 19th-20th March 2024.
- Mr. Parveen Kumar presented a paper “Epilepsy Detection using Novel Bayesian Optimized Stacked Deep Learning Layers” in ICAIA 2024 dated 19th-20th March 2024.
- Ms. Nidhi Goel published a paper “Comprehensive Review on Anomaly Detection Techniques for Web Data Logging” in the conference series ICICTCS on May 11 2024.
- Ashish Kumari,et al., “Investigating the Reliability of Vehicle-to-Vehicle and Vehicle-to-Infrastructure Communication” in international conference on innovations in Computational Intelligence and computer vision, April 2024.
- Ashish



# DEPARTMENT OF INFORMATION TECHNOLOGY

## PAPERS PUBLISHED IN JOURNALS, CONFERENCE & BOOKS

- Ashish Kumari, Navdeep Bohra, Deepti Deshwal, Amita Yadav, Anamika Rana “ANOMALY DETECTION IN ONLINE SOCIAL MEDIA THROUGH ADVANCED AI TECHNIQUES AND TOPIC MODELING” published in Proceedings on Engineering Sciences, March 2024. doi: 10.24874/PES.SI.25.03A.011
- Dr. Sitender malik published a paper on “Deep learning based predictive analysis of energy consumption for smart homes” in Multimedia tools & Application
- Dr.Sitender Malik published a paper on “High rainfall event identification using remote sensing satellite data in Proceedings of the Indian National Science Academy.
- Dr. Minakshi Tomer & Dr.Tripti Rathee published a paper on A Novel Approach of Stock Price Forecast Using Deep Learning Practices in International Journal of Intelligent Systems and applications in Engineering in February 2024
- Dr. Sonika Malik, Dr. Preeti Rathee presented a paper ”Enhancing Covid-19 Diagnosis Accuracy and Transparency with XAI Techniques” in ICAIA 2024 dated 19th-20th March 2024.
- Prabhjot Kaur et al. presented a paper “Noisy digital image segmentation based on different similarity measures using clustering approach”, in 2nd International Conference on Artificial Intelligence and Applications, MSIT, Delhi, 19-20 March, 2024.
- Mr. Akshay Singh presented a paper “A Comparative Analysis of Deep Transfer Learning Techniques for Mammographic Image Classification” in ICAIA 2024 dated 19th-20th March 2024.
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- Ms. Nidhi Goel published a paper “Comprehensive Review on Anomaly Detection Techniques for Web Data Logging” in the conference series ICICTCS on May 11 2024.
- Ashish Kumari,et al., “Investigating the Reliability of Vehicle-to-Vehicle and Vehicle-to-Infrastructure Communication” in international conference on innovations in Computational Intelligence and computer vision, April 2024.
- Ashish Kumari, and Navdeep Bohra, “ML Classifiers for Sentiment Analysis of Twitter Posts”, 4th International Conference on ICT For Digital, Smart and Sustainable Development held on April 23-24, 2024.
- Dr. Tripti Sharma, Dr. Priya Dalal, Dr. Jyoti Khurana, Ms. Mamta et.al. “Artificial Intelligence: Recent Trends, Challenges and Applications “, Scientific International Publishing House (SIPH), ISBN: 978-93-6132-188-7.



## DEPARTMENT OF INFORMATION TECHNOLOGY

### PATENTS

- Ms. Priyanka , Dr. Priya Dalal, Prof. Tripti sharma, Dr. Jyoti Khurana, and Ms. Mamta Gahlan published an Indian design patent on “Artificial Intelligence based approach to early detection of natural coma based on brain mapping techniques” dated 12/01/2024 with application number as 202311084592
- Prof. Tripti sharma, Dr. Jyoti Khurana, Ms. Mamta Gahlan, Dr. Priya Dalal, Ms. Priyanka, and Dr. Sunesh Malik published an Indian design patent on “Artificial Intelligence based approach to predict cancer using the algorithm of WSN and Image Processing " dated 12/01/2024 with application number as 202311084591
- Prof. Tripti sharma, Dr. Bharti Sharma, Dr. Priya Dalal, and Ms. Priyanka published an Indian design patent on “Artificial Intelligence, Big Data, Internet of Things and Blockchain Techniques and applications in Smart Energy Management " dated 19/01/2024 with application number as 202311087301
- Ms Mamta Gahlan, Dr. Pooja, Dr. Raj Kamal Kaur, Gur Sharan Kant, Kavi Bhushan, Dr Arvind Jayant, et. all” published an Indian design patent on A DISTRIBUTED ENERGY RESOURCE MANAGEMENT SYSTEM WITH INTERNET OF THINGS” Dated 5/01/2024 with application no. as 202311075893



## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### PAPERS PUBLISHED IN JOURNALS, CONFERENCES AND BOOK

- Rani, Mamta & Yadav, Jyoti & Rathee, Neeru & Panjwani, Bharti. (2024). Optifusion: advancing visual intelligence in medical imaging through optimized CNN-TQWT fusion. The Visual Computer. 10.1007/s00371-024-03495-z.
- Garima. Goel, Nidhi, and Neeru Rathee. "Novel fractal pattern based features for EEG-based emotion identification." Biomedical Signal Processing and Control 96 (2024): 106505.
- Deshwal, D. et al. "COVID-19 Detection using Hybrid CNN-RNN Architecture with Transfer Learning from X-Rays". Current medical imaging 20(2024), 1573-405.
- Anshul Pareek, Poonam Kadian, Shaifali M. Arora and Nidhi Gupta. "Telecom customer churn prediction model : Analysis of machine learning techniques for churn prediction and factor identification in telecom sector". Journal of Information and Optimization Sciences(2024)2169-0103.

### PAPER PRESENTED IN NATIONAL/INTERNATIONAL SEMINARS/CONFERENCES

- Shaifali M. Arora, Anshul Pareek, Poonam Kadian. "IOT based water quality monitoring system for Aquaculture", 2024 International conference on Artificial Intelligence and Applications(ICAIA), MSIT Janakpuri.
- Neelam Nehra, "Speaker Identification System Using Audio Signal and Deep Learning Method", 2024 International conference on Artificial Intelligence and Applications(ICAIA), MSIT Janakpuri.
- Dinesh Sheoran, "Telecom Customer Churn Prediction Model: Analysis of Machine Learning Techniques for Churn Prediction and Factor Identification in Telecom Sector" 2024 International conference on Artificial Intelligence and Applications(ICAIA), MSIT Janakpuri.
- Anshul Pareek, Poonam Kadian, Shaifali M. Arora "Telecom Customer Churn Prediction Model: Analysis of Machine Learning Techniques for Churn Prediction and Factor Identification in Telecom Sector", 2024 International Conference on Renewable Energy Potential for Sustainable Initiatives.
- Chhikara, Jasmine, Nidhi Goel, and Neeru Rathee. "Deep Learning Techniques for Pancreatic Cancer Analysis: A Systematic Review and Implantation Prerequisites." Procedia Computer Science 235 (2024): 3118-3130.



## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### PAPERS PUBLISHED IN THE JOURNALS, CONFERENCES & BOOK

- Dr. Jyoti Jain published a paper on “ELECTRAPLAZA- an Automatic Wireless EV Charging Station”, in VDI-Z Integrierte Produktion JOURNAL, Vol 11, Issue 6, June 2024.
- Dr. Jyoti Jain published a paper on Face Detection using ESP Cam-32 in the journal of Research and applications: Emerging Technologies, Vol 06, Issue 02, and Year 2024
- Goel, Sonia & Tushir, Meena, “A conditionally positive definite kernel function for clustering of incomplete data”, Journal of Information and Optimization Sciences, 45:2, 403–412, 2024, (ESCI indexed)
- J. Arora, G. Altuwajiri, A. Nauman, M. Tushir, T. Sharma, D. Gupta and S. W. Kim, “Conditional Spatial biased intuitionistic clustering technique for brain MRI image segmentation.” Frontiers in Computational Neuroscience, 18: 1425008, 2024. (SCIE)
- J. Arora, P. Kherwa and M. Tushir, “A comprehensive survey on the significance of industrial Internet of Things, energy management and big data analytics.” Journal of Information & Optimization Sciences, vol. 45(2), 247-256, 2024, ISSN 2169-0103. (ESCI)
- Jyoti Jain published a paper on Face Detection using ESP Cam-32 in the journal of Research and applications: Emerging Technologies, Vol 06, Issue 02, and Year 2024.
- Jyoti Jain et al. published a paper on “ELECTRAPLAZA- an Automatic Wireless EV Charging Station”, in VDI-Z Integrierte Produktion JOURNAL, Vol 11, Issue 6, June 2024. <https://vzipjournal.com/archives/>
- Jyoti Jain published a paper on “Gas Leakage Detection System: Design and Implementation” Journal of Emerging Trends in Electrical Engineering Volume 6 Issue 3, August 2024, e-ISSN:3048-5924, DOI: <https://doi.org/10.5281/zenodo.13358902>.
- Dr. Jyoti Jain published a paper on “REVIEW ON APPLICATION OF INTERNET OF THINGS IN SMART HOME APPLIANCES” Satyam journal MSIT 2023. Dec. ISSN 2319-7897. PP.52-57.



# DEPARTMENT OF APPLIED SCIENCE

## PAPERS PUBLISHED IN THE JOURNALS

- Prof. A. K. Singh, et al. “Relativistic atomic structure calculations of Li-like ions used for plasma diagnostic studies”, Physica Scripta, 99(6) 2024.
- Dr. Rekha Tripathi, “Comparative Antimicrobial Studies of Aerial parts and Roots of *Abutilon bidentatum*” IJIRSET, 13(3), 1369-1371, 2024.
- Ms. Reenu Kumari et al. “Cross-efficiency aggregation by ordered visibility graph averaging: method, and application in portfolio selection” IMA Journal of Management Mathematics <https://doi.org/10.1093/imaman/dpae012>
- Ms. Reenu Kumari et al. “Stock Assessment using Cumulative Prospect Theory in DEA Cross-efficiency Model: A Case Study of the Indian Stock Market.” Croatian Operational Research Review, 15(2024), 1–11
- Dr. Rashmi Gupta et al. “ANALYTICAL STUDY OF BINGE WATCHING CULTURE AMONG INDIAN YOUTH” South Asian Review, 3(3), 11-26, 2024.

## PAPERS PUBLISHED IN THE JOURNALS

- Dr. Rashmi Gupta, presented a paper on “Navigating Change: Society, Technology and Human Well-being” in ICSSR sponsored National Seminar at Lingayas Vidyapeeth faridabad, 15-16 March, 2024.



# STUDENTS ACHIEVEMENTS

- Harsh Kumar Suryan (Batch 2021-25) holds 3rd rank in KIMO Tech competition.
- Ridhimma Upadhyay (Batch 2021-25) holds position 1 in spotsonic open mic competition in Genesis 2024.
- Abhay Senwal (Batch 2021-25) won 2nd prize in battle of bands at annual fest of IITM Group of institutions.
- Sidharth Dhondiyal (Batch 2020-24) won best paper award in International Conference on "Artificial Intelligence and Applications" (ICAIA 2024).
- Pulkit Mittal (Batch 2020-2024) scored 288 rank in GATE 2024
- Shubham Kumar (Batch 2021-2025) won 3rd prize at Hackathon 2024
- Harshit pant (Batch 2021-2025) won Runner up position in Anugoonj 2024 at GGSIPU
- Aparna Jindal(2021-2025) won first position in Anugoonj Zonal Prelim.
- Harshita, Saksham, Siddharth and Shaurya secured 1st position in Techathon 3.0 at SRCASW, DU organized by GDSC society on 7th March, 2024.
- Gauri Agarwal, batch 2019-23 received a gold medal for her outstanding academic achievements on Annual Day (Feb 2024).
- Saksham Gupta, batch 2021-2025 showed exemplary performance in GATE 2024 exam and secured AIR 11.
- KKrish Malhotra prepared for GATE 2024 exam and has secured AIR Rank as Gate DA: 401 and Gate CS: 468.
- Nilay Dutta, batch 2021-25 has also prepared GATE and Rank AIR: 383 and Gate DA 383.
- Four students, Bishwajeet Parhi (Mentor), Yash Bhardwaj, Anshita Chaudhary and Nandini Motwani (Group members) had won second prize in Ministry/Organisation: Ministry of Social Justice and Empowerment (PS Code: SIH1405) May, 2024.
- Ravi Nain has secured second position in Hackathon'2024 organized by Cyber Police Station, West District, Delhi.
- Ravi Nain has secured third position in 200 mts. on the sports day held at MSIT on 29 Jan, 2024 to 30 Jan, 2024



## FACULTY DEVELOPMENT PROGRAM

- Dr. Rekha Tripathi, published an Indian design patent on “Artificial Intelligence, Big Data, Internet of Things and Blockchain Techniques and applications in Smart Energy Management ” dated 19/01/2024 with application number as 202311087301.
- Dr. Rashmi Gupta, Water Saving System an Indian patent granted on 2nd April, 2024, with application number 202211011778A.
- Dr. Medhavi Malik and Ms. Indu attended the FDP on "Hands-on IoT based Applications from 8th -12th January 2024 conducted by GGSIPU.
- Dr.Amita,Dr.Sonia,Dr.Shalu,Dr.Parul,Dr. Medhavi Malik, Dr. Swati Malik, Mr. Ravi Chaudhary and Ms. Vaani attended FDP on "Internet of Things" from 15th- 19th January 2024 conducted by Brain Mentor’s organized by MSIT.
- Dr.Rinky,Dr.Geetika,Dr.Amita,Dr.Kavita,Dr.Sonia,Dr.Shalu,Dr.Priyanka Nandal,Dr. Nishtha Jatana and Ms. Gunjan attended FDP on " Recent Trends in Artificial Intelligence” from 22nd- 27th January 2024 conducted by Bhupal Nobles university, Udaipur organized by Pantech.
- Mr.Ravi Choudhary,Dr.Vimal Gaur attended FDP on " AI/ ML and Data Science for Industry 4.0 (Intermediate Level)" from 29th - 2nd February 2024 conducted by NITTTR organized by MSIT.
- Dr.Koyel,Dr.Sandeep,Dr.Parul,Dr.Vikrant,Dr. Medhavi Malik and Ms. Indu attended the FDP on "CyberSecurity" from 5th- 9th February 2024 conducted by ICT ACADEMY organized by MSIT.
- Dr.Geetika,Dr.Kavita,Dr.Amita,Dr.Shalu,Ms.Jyoti,Dr. Neeti Sangwan, Ms. Gunjan, Dr. Medhavi Malik and Ms. Indu attended the FDP on "Digital Tools for Teaching and Learning" from 11th - 15th March 2024 conducted by NITTTR organized by MSIT.
- Dr.Shalu,Dr. Nishtha Jatana and Ms. Gunjan attended FDP and NPTEL Certification Course on Data Mining conducted and organized by NPTEL.
- Dr. Naveen Dahiya, Dr. Nishtha Jatana, Dr. Neeti Sangwan, Dr. Swati Malik, Ms. Gunjan and Ms. Vaani attended FDP on "Effective Teaching Learning using Social Media" from 27th - 31st May 2024 conducted by NITTTR organized by MSIT.
- Dr.Koyel,Dr.Sandeep,Dr.Vikrant attended the FDP on "AI Evolution: From Foundations to Generative AI" from 22- 27 January 2024 conducted by AICTE organized by MSIT.
- Dr.Geetika attended a FDP and NPTEL Certification Course on “Cloud Computing” conducted and organized by NPTEL from 22 January to 19 April,2024.



## FACULTY DEVELOPMENT PROGRAM

- Prof. A.K. Singh, Dr. Rekha Tripathi, Dr. Sobinder Singh, Ms. Reenu Kumari, Dr. Narender singh, Dr. Rashmi Gupta, Dr. Swati Choudhary and Dr. Sachin Dhull has Participated in the AICTE Recognized Faculty Development Programme on “Stress Management” Conducted by the Education and Educational Management Department from 15/01/2024 to 19/01/2024 (One Week) at MSIT.
- Dr. Rekha Tripathi and Dr. Swati Choudhary has participated in STC on Digital Tools for Teaching and Learning from 11/3/2024 to 15/03/2024 organized by NITTTR conducted by MSIT New Delhi.
- Dr. Rekha Tripathi and Dr. Swati Choudhary has participated in STC on Energy storage materials and technology from 6/5/2024-10/5/2024 organized by NITTTR conducted by MSIT New Delhi.
- Dr. Rashmi Gupta has participated in Reforms and Innovations in Higher Education conducted by Coimbatore Institute of Technology, Chennai from 12/2/24-16/2/24.
- Dr. Narender Singh has participated in NEP 2020- Orientation & Sensitization Programme Conducted by Malviya Mission Teacher Training Programme from 1/02/2024-14/02/2024
- 1.Dr. Minakshi Tomer and Dr. Tripti Rathee has Participated in the AICTE Recognized Faculty Development Programme on “Stress Management” Conducted by Education and Educational Management Department from 15/01/2024 to 19/01/2024 (One Week) at MSIT
- Dr. Minakshi Tomer has participated in a one week Faculty Development Program on “Cybersecurity” conducted by ICT Academy on 05 Feb 2024 to 09 Feb 2024 at Maharaja Surajmal Institute of Technology.



# FACULTY DEVELOPMENT PROGRAM

- Dr. Jyoti Jain attended one week faculty development programme on Recent Trends in Artificial Intelligence organized by department of computer science and application, faculty of science Bhupal nobles' university, Udaipur with pantech e learning conducted on 22 January to 27 January 2024.
- Dr. Minakshi Tomer and Dr. Tripti Rathee of Department of Information Technology, Maharaja Surajmal Institute of Technology, Delhi successfully completed a 4-Week Faculty Induction/Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” from 21 February – 19 March, 2024 and obtained “Grade A” under the aegis of MINISTRY OF EDUCATION Malaviya Mission Teacher Training Programme.
- Dr. Jyoti Jain attended three week Master class program on “ELECTRIC VEHICLE DESIGN USING MTLAB” organized by Pantech E Learning in association with I - STEM (Indian Science, Technology and Engineering facilities Map) Bangalore from 29-05-24 to 20-06-24.
- Dr. Jyoti Jain completed the FDP program on “Electric Vehicle” organized by Skill Dzire & AICTE, from June 3rd to June 30th, 2024. (1 month)
- Dr. Jyoti Jain worked as Coordinator for 21 days Master class program organized by Pantech E Learning on “Internet of Things” from 26-06-24 to 26-07-24
- Dr. Jyoti Jain worked as a reviewer for 2nd International conference on Networks, Multimedia and Information technology is organized by Nitte Meenakshi Institute of Technology, Bengaluru India on 9-8-24 to 10-8-24 in association with Bangalore section.
- Dr. Jyoti Jain worked as a reviewer for 2nd International conference on Networks, Multimedia and Information technology is organized by Nitte Meenakshi Institute of Technology, Bengaluru India on 9-8-24 to 10-8-24 in association with Bangalore section
- Dr. Jyoti Jain published a paper on “REVIEW ON APPLICATION OF INTERNET OF THINGS IN SMART HOME APPLIANCES” Satyam journal MSIT 2023. Dec. ISSN 2319-7897. PP.52-57.



# PLACEMENTS

**Name: Baninderpreet Kaur Saini**  
**Branch- IT**  
**Company- Amazon**  
**Package – 45 LPA**



**Name: Gunjan Singhal**  
**Branch- CSE**  
**Company – Microsoft**  
**Package- 50 LPA**



**Name: Srishti Dharwani**  
**Branch: CSE**  
**Company: Flipkart (Intern + FTE)**  
**CTC: 32.5 LPA.**  
**Stipend during Internship : 1 lac.**



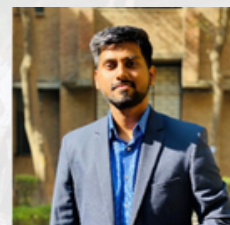
**Name: Sahil Srivastava**  
**Branch: CSE**  
**Company: Flipkart (Intern + FTE)**  
**CTC: 32.5 LPA.**  
**Stipend during internship: 1 lac.**



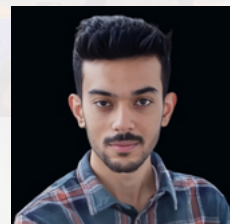
**Name: Saket Mundra**  
**Branch: CSE**  
**Company: Flipkart (Intern + FTE)**  
**CTC: 32.5 LPA.**  
**Stipend during internship: 1 lac.**



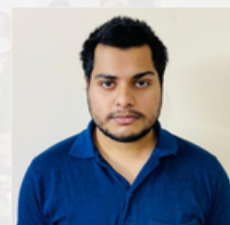
**Name -Bishwajeet Parhi**  
**Branch: CSE**  
**Company name- Homebase**  
**Package-26 LPA**



**Name- Sahil Mahajan**  
**Branch- IT**  
**Company – Zomato**  
**Package – 25 LPA**



**Name- Arpit Bajgoti**  
**Branch- IT**  
**Company – cpnet.io**  
**Package – 20.6 LPA**





# EVENTS/ACTIVITIES ORGANISED BY DEPARTMENTS

## Seminar on GGSIPU Academic Scheme for B.Tech. Programs (13th Feb. 2024)

10:00 AM - 12:00 Noon under the guidance of Prof. Prabjot Kaur (HoD, IT Department). The lecture was delivered by Mr. Akshay Singh (Assistant Professor, IT Department). Guru Gobind Singh Indraprastha University (GGSIPU) has implemented a new academic scheme for B.Tech programs starting from the academic session 2021-22. The new scheme is designed to be more flexible and interdisciplinary, in line with the National Education Policy (NEP) 2020.



## WEBINAR ON PUBLIC SPEAKING

The Information Technology department organized a webinar on 15th February 2024 from 1:00-2:00 PM on Microsoft Teams. Mrs. Tarannum Naseem Raza from T.I.M.E. was the speaker of the event. The main objective of the webinar is to outline diverse communication objectives and their implications. The webinar ended on a brighter note, with the audience feeling inspired and acquiring vital insights about leveraging resources, practicing techniques, and adopting considerate communication practices, individuals can strengthen their ability to connect, influence, and collaborate effectively in various professional settings.





## SEMINAR ON HOW TO BELL CAT EXAMINATION

An exclusive and informative seminar was organized by IT department on 16th Feb. 2024, from 10:00 AM - 12:00 Noon in collaboration with IIICell, MSIT. The lecture was delivered by Mr. Rohit Suri Chief Mentor – IMS Delhi-NCR) on “How to Bell CAT examination “. “Belling the CAT” is a common expression used in India, meaning to crack or excel in the Common Admission Test (CAT), a highly competitive entrance exam for admission into prestigious management institutes such as the Indian Institutes of Management (IIMs) and other top B-Schools in India



## WORKSHOP ON MACHINE LEARNING USING PYTHON

An exclusive and informative seminar was organized by IT department on 19th February 2024 from 11:00-12:00 Noon under the guidance of Prof. Prabhjot Kaur (HoD, IT Department). The lecture was delivered by Ms. Khushi Thakur (Senior Data Scientist at Brain Mentors Private Limited). The workshop aimed at providing students with a comprehensive understanding of the fundamentals of Machine Learning and its practical implementation using Python programming language to provide a solid foundation in practical skills. The session was concluded with a quick quiz about everything they had taught during the session.





## SEMINAR ON DESIGN THINKING

An exclusive and informative seminar on “Design Thinking” was organized by IT department in collaboration with IIICell, MSIT and ICT Academy. The lecture was delivered by Er. N. Rahul, Project lead for Open Innovation at Tamil Nadu Startup and Innovation Mission (StartupTN). Er. N. Rahul addressed the students by welcoming them to the seminar and shared his views on this event. He explained the objectives of Design Thinking in today’s dynamic scenario. He spoke about reframing the given problem statement according to user need instead of framing it from designer’s point of view. Later on the speaker explained the various challenges in designing a classroom from students perspective. He also shared his findings about Learning Pyramid and Difference between Traditional classroom & Learning studio.



## Seminar on “Crack the Success Code 2.0”

Ms. Priyanka and Ms. Ashish Kumari has organized a seminar on “Crack the Success Code 2.0” with Sister B.K. Dr. Aditi Singhal ( Guinness World Record Holder and TEDx Speaker). Also, a valuable and knowledgeable lecture on Nasha Mukti Abhiyaan was held with Dr. Ustat khullar ( MBBS). The event was conducted on March 18, 2024 from 11AM - 1PM in the MSI Auditorium. The event commenced with a thought-provoking session by Sister B.K Dr. Aditi Singhal, who delved into topics such as the success mantra, the power of self-control, positive self-talk, concentration, and the importance of self-knowledge.





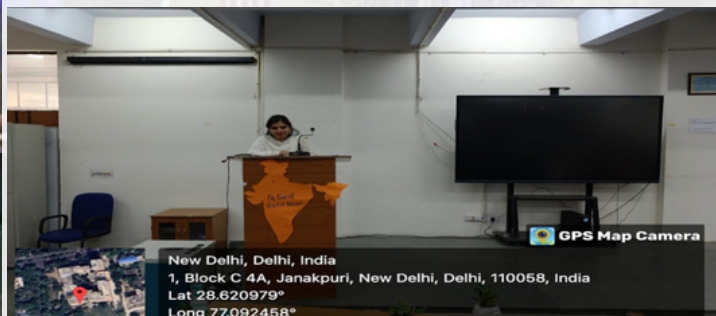
## SEMINAR ABOUT THE FOUR TYPES OF B.TECH UNDER THE NEW EDUCATION SCHEME

Dr. Sunesh Malik conducted a seminar about the four types of B.Tech under the new education scheme on February 13, 2024. She discussed the four types of BTech programs available to students under this scheme, providing valuable insights into each option. The seminar commenced by elucidating the fundamental aspects of the new BTech education scheme, emphasizing its relevance and significance in today's ever evolving world. The students were made aware of the current credit system, the concept of Open Area Electives/Emerging Area Electives (OAE/EAE), and the various ways students can fulfil the maximum credits required. She underscored the need for students to make informed decisions regarding their academic pursuits, considering the diverse opportunities offered by the scheme.



## WORKSHOP ON "EFFECTIVE WEB CACHING AND CONTENT DISTRIBUTION."

The Department of Information Technology (2nd Shift) at Maharaja Surajmal Institute of Technology, New Delhi, hosted an enlightening workshop on "Effective Web Caching and Content Distribution." Renowned Hybrid Cloud Architect at Google, Mr. Anmol Krishan Sachdeva, graced the occasion as the keynote speaker, known in tech circles as "GreatDevAks." Conducted on 28th March 2024.





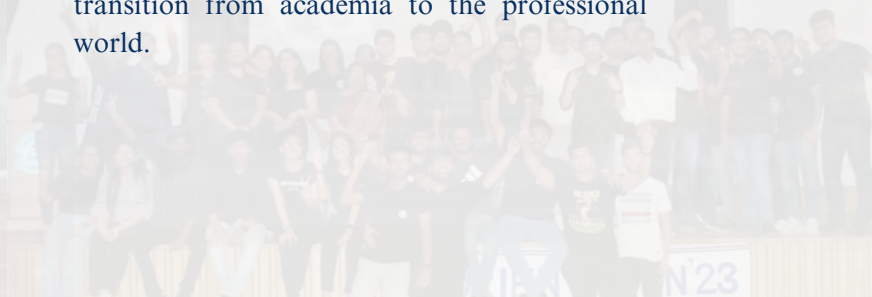
# THE MOCK PLACEMENT DRIVE

The Mock Placement Drive, organized by the IT-Evening Fourth Year for their juniors in the IT-Evening Third Year on April 13, 2024, aimed to simulate a real-world recruitment process to prepare students for future job opportunities. The event spanned across two days, each featuring distinct rounds designed to evaluate different skills and provide valuable insights from alumni. The Mock Placement Drive focused on enhancing students' understanding of the industry and providing valuable guidance from alumni.



## THE ALUMNI INTERACTION SESSION

The Alumni Interaction organized by the IT-Evening for their Final year on April 13, 2024, on the Topic “Navigating Careers, Alumni insights and interactive Session”. The alumni interaction session was enriching, offering a diverse range of perspectives and actionable insights for students preparing for HR and technical interviews. The speakers' expertise in various domains, coupled with practical advice and real-world experiences, provided a holistic understanding of industry expectations and career pathways. Overall, the session served as a guiding light for students navigating the transition from academia to the professional world.





## SEMINAR ON BREAKING THROUGH BIOTECHNOLOGY

An exclusive and informative seminar was organized by the Department of Applied Sciences(2nd Shift) on the topic “Dyeing-Dying Nexus: Breaking through Biotechnology” on 26th April 2024. The lecture was delivered by Prof. Anushree Malik, IIT, Delhi. An extensive discussion delved into the process by which effluents from textile dyeing, when discharged into water bodies, undergo conversion into amines, consequently leading to water pollution. The session also emphasized strategies for addressing this issue, particularly at an industrial scale.



## WORKSHOP ON “PCB DESIGN USING KICAD”

Department of Electrical and Electronics Engineering organized a comprehensive Hands-On Workshop on “PCB Design using KiCAD” for EEE IV and VI semester. The workshop was conducted by Mr. Vaibhav Bhardwaj and Mr. Shayak Choudhari, Ph.D. Prime Minister Research Fellow Scholar, IIT Delhi. The workshop was aimed at providing EEE students with practical skills and knowledge in the field of Printed Circuit Board (PCB) design. The sessions were conducted from March 6 to April 26, 2024.





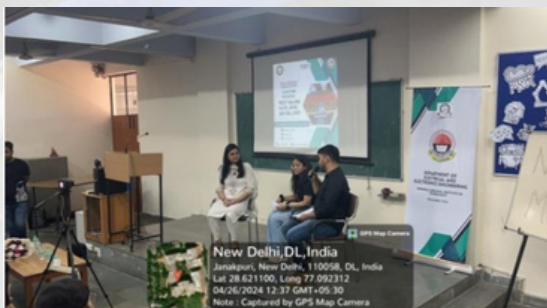
## EXPERT LECTURE ON “AI-BASED MOTION CONTROL”

Department of Electrical and Electronics Engineering in association with IEEE PES Chapter MSIT organized an expert lecture on “AI-based motion control” by Prof. Perna Gaur, Director West Campus, NSUT, New Delhi, and Chair, IEEE Delhi Section on April 23, 2024. In this lecture application of AI in different fields like Drones, bigger data precise control of motors, CNC machines, Robotics, AI-powered assistants, Autonomous Vehicles, Travel, and Transport, Automotive Industry, etc. was discussed.



## A TALK ON “BOOKS AND THEIR UTILITY FOR PUBLIC SECTOR”

A Talk on “Books and Their Utility for Public Sector” was organized by the National Digital Library of India (NDLI) MSIT and the Department of Electrical and Electronics Engineering on 26 April 2024 for 4th, 6th, and 8th-semester students of EEE. On 26 April, 2024, the Seminar Hall # 406 of MSIT buzzed with enthusiasm as students gathered to learn from an achiever, Ms. Saloni Vats, who is an illustrious alumna of our institution (B. Tech. EEE batch 2018-2022) and achieved an outstanding All India Rank (AIR) of 129 in the UPSC exams.

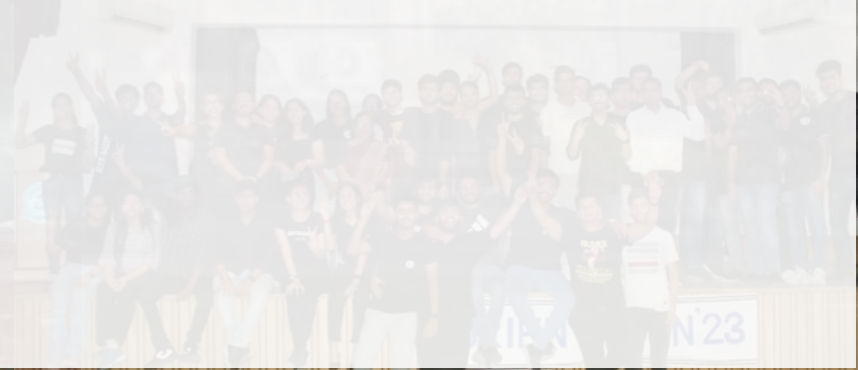




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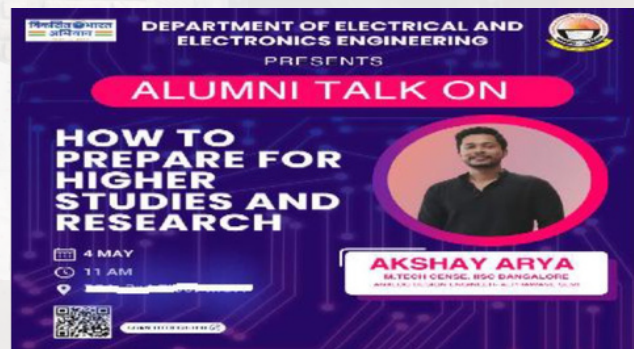
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## ONLINE SESSION ON “HOW TO PREPARE FOR HIGHER STUDIES AND RESEARCH”

The Department of Electrical and Electronics Engineering (EEE) of Maharaja Surajmal Institute of Technology, Janakpuri successfully conducted an online session on “How to Prepare for Higher Studies and Research” by Mr. AKSHAY ARYA, B.Tech EEE Batch (2016-2020), Analog Design Engineer, Alphawave Semi, on 04 May, 2024. Mr. AKSHAY ARYA completed his M.Tech from prestigious institute IISc, Bangalore.



## AMCAT Seminar

The AMCAT Seminar was held on March 5, 2024 from 11am to 12 pm, for third-year BTech. The session was conducted by Mr. Jasmeet Singh (Assistant vice president). The event aimed to introduce students to the AMCAT test and its significance in the placement process. The session began with an introduction by Mr. Jasmeet Singh, who outlined the importance of AMCAT as a tool for assessing students' employability skills. He emphasized how the test has flourished across various platforms and is widely utilized by companies for recruitment purposes.



# ION CONTRIBUTION RUN



B.Tech students from MSIT participated in the ION Contribution Run on 28th January 2024. The event was organized by ION technologies for their employees as well as the colleges with which they have a good association. Placement Committee MSIT coordinated the event. In total eight students from MSIT took part in the run which started from JSS academy Sector-62, Noida. Students were given free vouchers to participate in the event, they were also given various goodies. The event gave the students a platform to interact with the ION team members and build a connection with them, promoting a culture of health, wealth, wellness and giving back to the society. There were quiz and informative stalls by ION employees. The event also had healthy and scrumptious breakfast for all the participants.



## HUMAN LUDO ORGANIZED BY MSC MSIT

From January 31st to February 4th, 2024, MSC MSIT organized a life-sized twist on the classic board game Ludo at the MSIT Main Ground. Participants became the game pieces, navigating a giant Ludo board filled with challenges and obstacles. The event was designed to foster joy, teamwork, and friendly competition, creating a vibrant and collaborative atmosphere. Players worked together, strategized, and laughed as they moved across the board, turning a beloved game into an unforgettable, interactive experience.



## MR. & MS. CODER PAGEANT

On February 1, 2024, MSC MSIT, in collaboration with Avensis, organized the inaugural "Mr. & Ms. Coder Pageant" at MSIT Seminar Hall 06. This unique event combined coding skills with charisma in a three-stage challenge. Round 1 featured an HR-style interview, testing participants' communication and problem-solving abilities. Round 2 was an exciting campus treasure hunt where contestants searched for hidden code snippets. The event culminated in Round 3, a high-stakes coding showdown that determined the winners of the coveted titles of Mr. & Ms. Coder. The pageant was a resounding success, showcasing talent and innovation.





## KV SESSION

On January 31, 2024, the SARABHAI Tech Club organized a seminar at PM Shri Kendriya Vidyalaya, Janakpuri, focusing on the future of technology. Ved Mohan, Lead of MSC MSIT, was the keynote speaker. He provided in-depth insights into emerging technologies, including AI, machine learning, IoT, and blockchain. The session also featured a hands-on workshop where participants learned to create chatbots using AI. The event successfully engaged students, sparking interest in cutting-edge technologies and practical applications.



## GOOGLE WE PROGRAM GUIDANCE AND TRAINING

The Google WE (Women Engineers) Program aims to increase women's representation in engineering roles within the tech sector. Anusha Tomar (2nd year ECE), Kanika (2nd year BCA-Evening), and Pranitdeep Singh (1st year CSE-Morning) led extensive training sessions to encourage and prepare first-year female students to apply for this prestigious program. Their efforts yielded remarkable results, with seven MSIT students—Aanya Dhoundiyal, Gourika Makhija, Annapurna Adhikari, Sakshi Mishra, Kashika Malhotra, Khushleen, and Vibhuti—successfully gaining acceptance into the Google WE Program. This achievement highlights the effectiveness of their guidance and dedication.





# EMPOWER HER

On April 15, 2024, Anusha Tomar (Google WE Scholar '23, ML Intern at IIT Hyderabad) and Kanika (DSA/CP expert, 2nd year BCA) organized the "Empower Her" event at Seminar Hall 06, MSIT. This inaugural event was exclusively for first-year female students, focusing on internships, coding, and projects. The event was a resounding success, with enthusiastic participation and positive feedback from the attendees. The initiative provided valuable insights and motivation, empowering the students to pursue opportunities in tech confidently. The event marked a significant step towards fostering a supportive environment for female students in the field.



## SOROBAN ACCELERATED BOOTCAMP

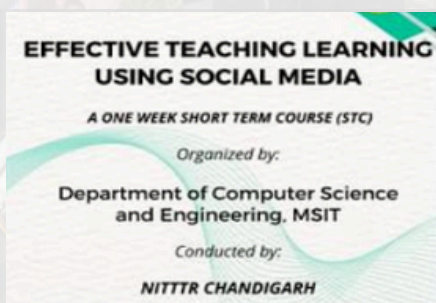
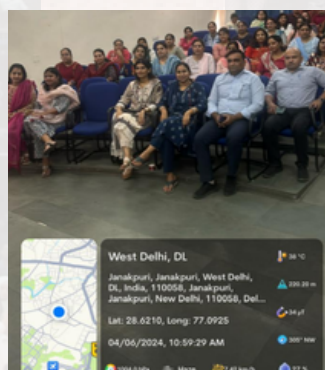
On April 29th, TechSoc MSIT in coordination with CSE Department of MSIT, organized an exhilarating Soroban Accelerated Bootcamp, a workshop aimed at delving deep into the realm of Blockchain technology and mastering the innovative Soroban platform. In collaboration with RiseIn Company, the event served as a catalyst to foster a vibrant web 3 and Blockchain culture within our college community. The Speakers were: Mr. Chintan Vatsa (Country Head of RiseIn) and Mr. Abhinaw Kumar (Blockchain Developer, RiseIn). The primary objective of this bootcamp was to empower students to embark on their Blockchain journey and explore the limitless possibilities of this transformative technology. A total of 50 attendees joined the workshop. As part of the event, we distributed goodies to over 10 participants, including exclusive T-shirts. Additionally, participants who successfully submitted full-stack projects were rewarded with a generous incentive of \$50.





# CURRICULUM DESIGN FOR OUTCOME BASED EDUCATION

ECE Dept., 2nd shift conducted a Short-Term Course (STC) on 'Curriculum Design for Outcome Based Education' organised by the National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh-Curriculum Development Centre from 3rd June 2024 to 7th June 2024 in MSIT. The STC was organised by Prof. (Dr) Pardeep Sangwan, HOD, ECE Dept. 68 faculty members from MSIT and other colleges enrolled and attended the course. Eminent speakers from all over India delivered talks in various sessions. The experts' list included Dr M. Sood, Prof. R. Mehra, Prof. Y.K. Anand, Dr Sanjeev Sofat, Er. P.K. Singla, Dr Sunil Dutta, Dr Jyotirmoy Dutta, Dr Gaurav Kumar, and Dr Harshvardhan.



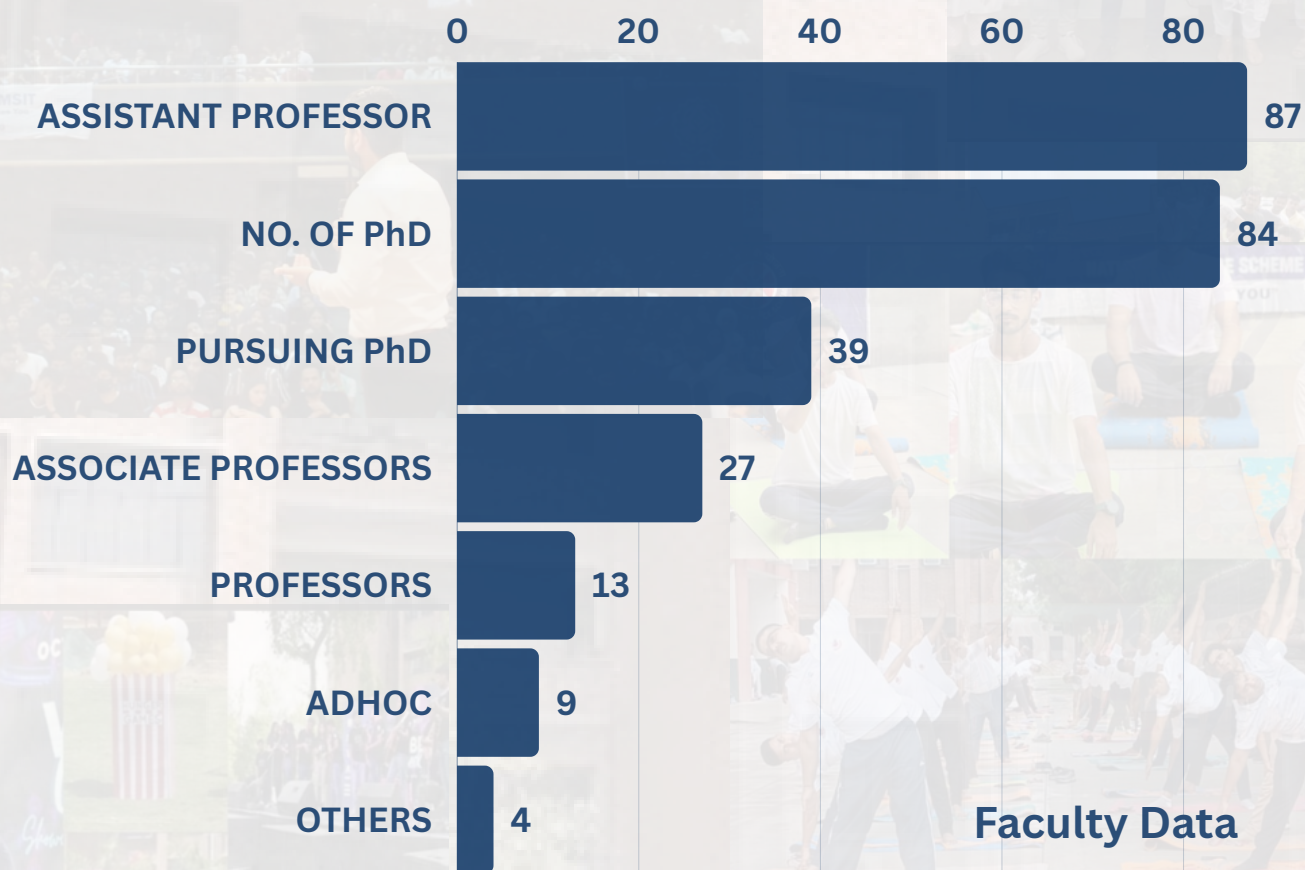
## ONLINE SHORT-TERM COURSE ON EFFECTIVE TEACHING LEARNING USING SOCIAL MEDIA

The Department of Computer Science and Engineering organized a one-week short-term course on "Effective Teaching Learning using Social Media" from 27th May to 31st May, 2024. There were 62 participants from MSIT and other colleges of Delhi. The FDP was facilitated by the National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh, with MSIT serving as one of the remote centers.





# FACULTY STATUS AT THE MSIT



Faculty Data



# MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY

AFFILIATED TO GGSIPU | NAAC ACCREDITED 'A' GRADE | NBA (CSE, IT, ECE,EEE)  
| APPROVED BY AICTE | ISO 9001:2015 CERTIFIED |



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