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TECHBYTE

NEWSLETTER

Volume -5 July-Dec 2023

This Newsletter highlights the remarkable accomplishments of IT Department. From a myriad of research papers, patents and books covering diverse subjects, to engaging and enriching events orchestrated by faculty, students, and societies, it offers a comprehensive glimpse into the IT Department's endeavors. We have devoted ourselves to surmount all challenges to impart and inculcate the best principles, processes, and practices in learning, teaching and research work in IT.

Maharaja Surajmal Institute of Technology was established in 2001 with the approval of AICTE for conducting B.Tech courses in IT, CSE, ECE, and EEE, and is affiliated to Guru Gobind Singh Indraprastha University, New Delhi. Ours is a NAAC and NBA accredited Institution. It is ranked in 250–300 block by NIRF. We are a team of 25 full time faculty members, 01 ad-hoc faculty member, 05 technical assistants and more than 800 undergraduate students.

Program Educational Objectives (PEOs)

PEO 1: Graduates of IT program are prepared to be employed by IT industries and be engaged in learning, understanding and applying new ideas.

PEO 2: The graduates are prepared to perform effectively as individuals and team members in the work-place, growing into highly technical or project management and leadership roles.

PEO 3: Graduates are prepared to apply basic principles of practices of computing grounded in mathematics and science for successfully completing software related projects to satisfy customer business objectives and productively engage in research.

PEO 4: Graduates are prepared to pursue higher studies so that they can contribute to the teaching profession, research & development of information technology and other allied fields.

VISION

To build a culture of innovation and research in students and make them capable to solve upcoming challenges of human life using computing.

MISSION

M1: To develop 'educational pathways' so that students can take their career towards success.

M2: To imbibe curiosity and support innovativeness by providing guidance to use the technology effectively.

M3: To inculcate management skills, integrity, honesty and human values through curricular, co-curricular and extra-curricular activities.

Program Specific Outcomes (PSOs)

PSO 1: Ability to understand the principles and working of hardware and software aspects in information technology.

PSO 2: Ability to explore and develop innovative ideas to solve real world problem using IT skills.

Journal

Research Publications

- 1 Kaur P., Kaushik, A. et al. (2023), "Heart Diseases diagnosis using Chaotic Harris Hawk optimization with E-CNN for IoMT framework", Information technology and Control, Vol. 52, Issue:2, pp. 500-514. ISSN: 2335-884X, SCIE Indexed (IF: 1.1)
- 2 Kaur P., Kaushik, A. and Singh R. (2023), "Smart Complaint Box based on IoT and Cloud service to notify complaints", International Journal of Systems Assurance Engineering and Management, ISSN: 0976-4348, UGC-CARE, SCOPUS, ESCI Indexed.
- 3 Kaur P. et al. (2023), "Talk Over: A Voice Chat Web Application based on WebRTC", International Journal of Computer Applications, Vol. 185, No. 15, pp. 54–58, ISSN: 0975–8887. DOI: 10.5120/ijca2023922844, Google Scholar.
- 4 Kaur P. et al. (2023), "Sign language Translator using Machine Learning for communication with Deaf People", International Journal of Computer Applications, Vol. 185, No. 6, pp. 26–30, ISSN: 0975–8887. DOI: 10.5120/ijca2023922714, Google Scholar.
- 5 P. Kaur et al. (2023), "CODEIAL: A solution for the coders by the Coders to the Coders," MSIT Journal of Research TECHNOVATION 2023, 22-23 September, 2023. ISSN: 2319-7897.
- 6 T. Sharma et.al. (2023), "A novel SVM and LOF-based outlier detection routing algorithm for improving the stability period and overall network lifetime of WSN" International Journal of Nanotechnology, 20(5-10), 759-789.,ISSN: 1475-7435, SCIE Indexed.
- 7 T. Sharma et.al. (2023). "Retail Analysis -Walmart Trend Assessment", International Journal of Progressive Research in Engineering Management and SCience, Vol 03, no.12. ISSN: 2583-1062, Google Scholar.
- Malik S. et al. (2023), "Convolutional Neural Networks for Prediction of Age and Gender", International Journal of Computer Applications, Vol. 185, No. 29, pp. 40-45, ISSN: 0975-8887. DOI:10.5120/ijca2023923043 Google Scholar.
- 9 Anupama Kaushik, Avi Mittal, Kaustubh Mogha and Jay Kakkar. Role of 360-Degree Virtual Reality Tours for Real Estate. International Journal of Computer Applications 185(49):38-44, December 2023.
- 10 Sangeeta, Khushiyant, Sitender and Mathur V, "Ideal Weight Ensembling of Modified Neural Networks", Indian Journal of Natural Sciences, vol-14(81), pp-66561-66571, Dec. 2023 UGC Care, Web of Science.

- 11 Sitender et.al., "Malicious URL Detection on IOT", Technova tion-Special Issue, Satyam Journal, 44–49, 2023.
- 12 J. Arora, P. Khapekar and R. Pal "Multimodal Sentiment Analysis using LSTM and RoBerta." Advanced Innovations in Computer Programming Language, 5(2), 24-35, 2023. (Google Scholar).
- J. Arora and S. Kaur "Performance Assessment of Intuitionistic Fuzzy C-Means Clustering with different Distance Metrics" International Journal of All Research Education & Scientific Methods, vol. 11(12), 2023. ISSN 2455-6211. (Google Scholar).
- J. Arora, J. Kumar, K. Kumar and K. Samadhiya "Predicting Lung Disease using Machine Learning Algorithms on the Basis of Air Quality Index" International Journal of All Research Education & Scientific Methods, vol. 11(12), 2023. ISSN 2455-6211. (Google Scholar).
- 15 Priyanka Kalkandha, Priyanshu Jha "Candlestick Technical Analysis and Pattern Detection on Selected Indian Stocks" MSIT Journal of Research SATYAM, Vol.11(2022-23) ISSN:2319-7897.
- 16 Khanum, S., & Mustafa, K. (2023). A lattice-based blind ring signature scheme for sensitive data protection in blockchain applications. Concurrency and Computation: Practice and Experience, 35(26), e7835. SCI.

Conference

- 1 Kaur P. et al. (2023), "Lightweight, Secure and Authenticated Blockchain- Optimized Network Routing Protocol for Wireless Body Area Networks," 1st IEEE International Conference on Multidisciplinary Research in Technology and Management MRTM 23, India, 22-23 September, 2023. Indexed in IEEExplore.
- 2 Sonika Malik, Preeti Rathee presented a paper "Light gradient boosting machine algorithm (LGBM) for COVID-19 prediction based on Symptoms" in ISIC 2023 dated on 17-19 Oct, 2023.
- 3 Prof. Tripti Sharma and Dr. Priya Dalal presented a paper "Predicting Credit Default Using ML" in International Conference on Recent Advancements in Communication, Computing and Artificial Intelligence (RACCAI 2023) dated on 12-13 Oct, 2023.

Patent Granted

1 Prof Poonam Bansal, Ms Shefali , Meena Tushir, Sonia Goel, Jyoti Khurana, Pooja Kherwa, Amita Dev granted an Indian Patent on "Web Application Based Intelligent & Secured Image Retrieval Model" dated 26/10/2023 with patent number as 462240.

Patents Published

- 1 Dr. Minakshi Tomer and Dr. Tripti Rathee granted a UK design patent on "Deep Learning Based Text Recognition Device" dated 08/08/2023 with application number as 6300179.
- 2 Dr. Sandeep Singh et al. has published a design patent on "Aluminium Louver (Design Patent) with application number 345382-001 dated 29/09/2023.

Books Published

- 1 Dr. Tripti Sharma, Dr. Priya Dalal, et.al. "Data Science and Machine Learning Using Python ", Alpha International IPublication, ISBN: 978-93-5762-0765.
- 2 Sonika Malik, Jyoti Khurana, Preeti Rathee and Akshay Singh, 2023, "Python Programming - Industrial Approach", Scientific International Publishing House (SIPH), ISBN: 978-93-5757-658-1.
- 3 Dr. Minakshi Tomer et. al. "Fundamentals of Programming with Python", Notion Press, 2023.

Faculty Achievements





Prof. Prabhjot Kaur

Ranked among 2% Topper in the Swayam Course Titled "BIG Data" held in Oct 2023.

Recognized as an "NPTEL Star" - NPTEL DISCI-PLINE STAR from NPTEL/SWAYAM for the session Aug-Dec. 2023.





Prof. Tripti Sharma

Maharaja Surajmal Institute of Technology, Janakpuri, New Delhi, India



Prof. Tripti Sharma

Received the International Award for Outstanding Teacher 2023 by the Green ThinkerZ Society which is registered at NGO Darpan, NITI Aayog, Government of India.

Faculty Promotions

- 1) Dr. Prabhjot Kaur got promoted as PROFESSOR in September 2023.
- 2) Dr. Tripti Sharma got promoted as PROFESSOR in September 2023.
- 3) Dr. Sunesh Malik got promoted as ASSOCIATE PROFESSOR in September 2023.
- 4) Dr. Bharti Sharma got promoted as ASSOCIATE PROFESSOR in September 2023.

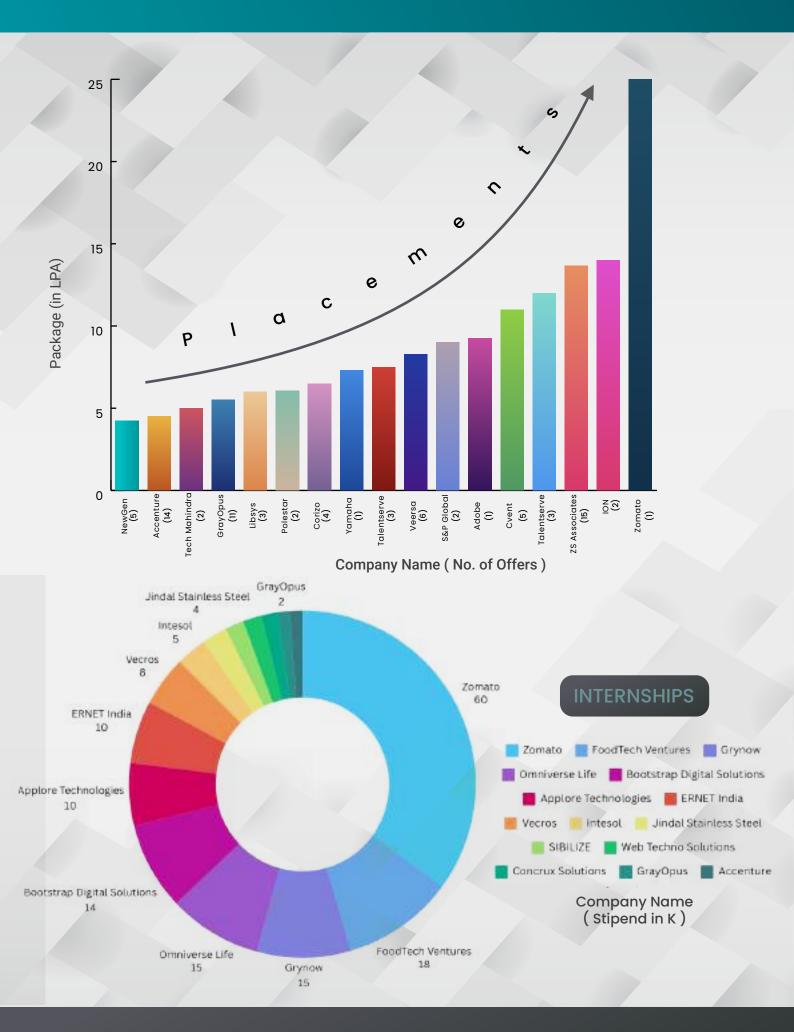
Student Achievements



- 1 Aryan Anand (2020-2024 batch) received a certificate of excellence for being Chairperson at IEEE PES MSIT in July 2023.
- 2 Riya Sharma (2022-2026 batch) selected as a finalist in the INTRA DEBATING TOURNAMENT(Asian Parliamentary debate) in August 2023.
- 3 Riya Sharma (2022-2026 batch) selected as top 50 participants for tomorrow's Azure Generative AI day in November 2023.
- 4 Rahul Verma (2022-2026 batch) selected as Business Coach by the Delhi Government initiative "Business Blaster". His role involves coaching 11th and 12th grade students in entrepreneurial skills and ventures.
- 5 Students of the IT Department won first prize at Anugoonj (Annual Cultural Festi val of GGSIPU) Zone-4 Prelims in October 2023.



PLACEMENTS & INTERNSHIPS



Scholarship



Harshita Yadav (2023 passout batch) is pursuing MSc Management in International Business from France with Grenoble Ecole de Management (GEM) Scholarship of 2000€.

Alumni Corner



Tanay Aggrawal (2023 passout batch) is pursuing MS from The Open University Walton Hall, United Kingdom.

Priyanshu Jha (2023 passout batch) is pursuing M.Tech from IIT Kanpur.



Ria Mittal (2023 passout batch) is pursuing MBA from NMIMS, Mumbai.

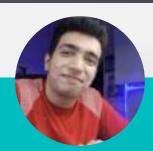
Dharna Singh (2019 passout batch) is pursuing MSc in Management Information Systems at Mays Business School, Texas A&M University, United States.





Aditya Kapoor (2022 passout batch) is pursuing Master of Science in Computer Science at University of Stuttgart, Germany.

STAR ACHIEVERS



Pratham Batra Batch: 2022-26

Al Intern @ Bynd | Co-Founder @ Geek Room | Lead Organizer @ Code Kshetra | Microsoft LSA | Hackathons Organized(x4), Won(x5), Mentored(x7), Participated(x15)



Saksham Verma Batch : 2022-26

Full Stack Developer | Publicity and Design head @ Geek Room | Hackathons Mentored (x3) | Organised (x2) | Won (x2) | Participated (x10) | Software intern @ Hope Enterprises Class Toppers





Harshita
IT-M , 4th Year



3 Riya







Nikunj



Jatin
IT-M , 3rd Year



3 Aryan



2 Nikhil



Meenakshi IT-M , 2nd Year



3 Rishav







Shivani

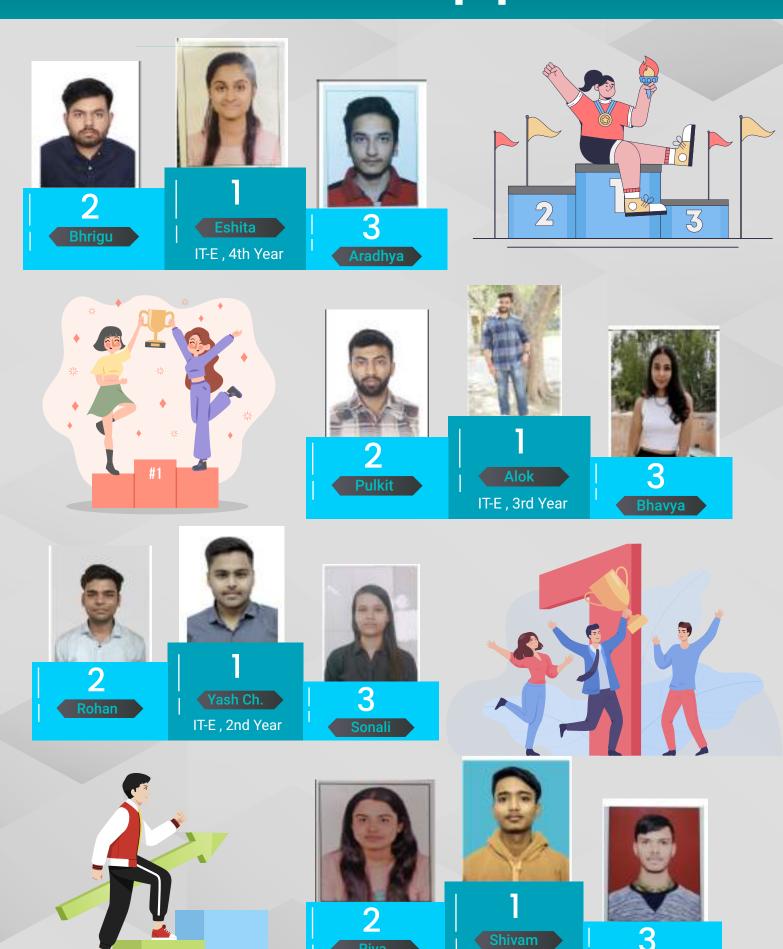


Vidit
IT-M , 1st Year



3 Dhairya

Class Toppers



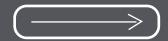
Riya

IT-E, 1st Year

Md. Kayum



EXENTS ORGANISED





INDUSTRIAL VISIT



UniCoverage Technologies Pvt. Ltd., Noida

(23rd October 2023)

The exposure to industry professionals and hands-on experience enhanced their understanding and appreciation of IoT concepts, preparing them for future academic and professional pursuits in this dynamic-field.

The most insightful part of the visit was the industry tour, where students witnessed the manufacturing and assembly processes of various IoT devices.

They were exposed to real-world applications such as Energy Monitoring, Air Quality Monitoring, Smart Street Lighting, Smart Healthcare, Water Metering, and Image Recognition solutions. This hands-on experience not only deepened their understanding of IoT technology but also highlighted the importance of quality control measures in ensuring the efficiency and reliability of IoT devices.

The industrial visit to UniCoverage Technologies Pvt. Ltd., Noida, organized for 40 students of the 5th Semester, IT Department, MSIT, proved to be a transformative learning experience, bridging the gap between theoretical knowledge and practical applications in the field of Internet of Things (IoT). Through activities including a warm welcome, the company presentation, an insightful industry tour showcasing real-world IoT applications, interactive sessions with industry experts, and a fruitful Q&A session, students gained invaluable insights into the intricacies of IoT technology and its diverse applications. The visit facilitated meaningful discussions, clarified doubts, and provided insights into internship and place ment opportunities within the industry.





INDUSTRIAL VISIT

UniCoverage Technologies Pvt. Ltd., Noida (26th October 2023)

An industrial visit was organized as a part of the academic curriculum of students of 3rd Semester, IT Department on 26th October 2023 under the guidance of Dr. Deepshikha Yadav and Mr. Parveen Kumar, Assistant Professors, IT Department, MSIT. 47 students of 3rd Semester went to 'UniCoverage Technologies Pvt. Ltd., Noida' along with 2 faculty members in a bus. The industry focused on exploring the field of Internet of Things (IoT) and understanding the work culture of the industry. IoT has gained significant relevance in recent years as it has become a transformative technology in various sectors.

During the visit, students seemed to be very excited and had an opportunity to engage in a comprehensive program. The most insightful part of the visit was the industry tour where students witnessed the manufacturing and assembly processes for IoT devices. They gained an understanding of the quality control measures to be taken. It was fascinating to see the real-world applications of IoT technology in action.

WORKSHOP on Internet of Things (26th September 2023)



In collaboration with The IoT Academy, the session started at 11:00 AM on 26th September 2023 as scheduled and went for an hour. Internet of Things (IoT) is a revolutionary concept that envisions a world where everyday objects are connected to the internet, enabling data exchange and automation. The workshop started with the basics of IoT in great detail. The students were highly passionate, and the session was really participatory. Mr. Sisodia not only shared the theoretical knowledge but also focused on the practical implementation of the same. The session aimed to shed light on IoT's current state, applications, and future prospects.

The highlights of the workshop are as follows:

- 1. IoT architecture and components
- 2. Smart cities and urban IoT
- 3. Industrial IoT (IIoT)
- 4. IoT in healthcare and agriculture
- 5. IoT Applications Across Industries
- 6. IoT Security and Privacy
- 7. oT Challenges and Solutions
- 8. The Future of IoT





The session drew to a close with an interactive question and answer session. The students and faculty members would undoubtedly agree that this event was a success, as they gained a great deal of knowledge in such a short period of time. Everyone absolutely loved being a part of it and learned a great deal in the subject. The workshop concluded with the felicitation of Hon'ble Guest Speaker with a memento.



SEMINAR on New Academic Scheme for B.Tech. Programs (27th September 2023)

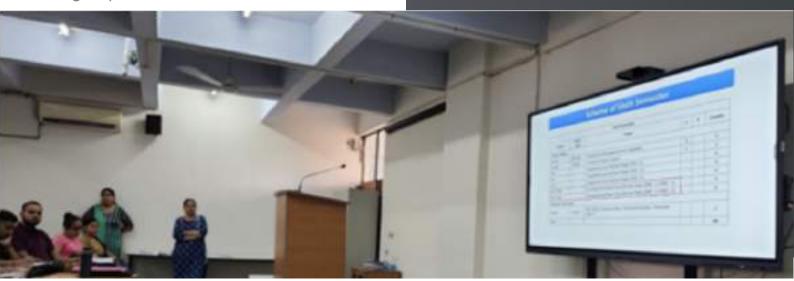
An exclusive and informative workshop was organized by IT department under the guidance of Dr. Bharti Sharma (Associate Professor), Dr. Jyoti Khurana and Mr. Akshay Singh (Assistant Professors). The lecture was delivered by Prof. Prabhjot Kaur, Head of Depart ment (Information Technology).

In addition to the required courses in their chosen program and minor specialization group (if applicable), students must also complete a certain number of Emerging Area Elective (EAE) and Open Area Elective (OAE) courses. EAE courses are courses that are related to emerging areas of technology and research. OAE courses are courses that are outside of the student's chosen program and minor special ization group.

Flexibility: Students have more flexibility to choose the courses that they want to take, which allows them to pursue their interests and develop a more specialized skill set.

Interdisciplinarity: Students have the opportunity to learn about different disciplines and apply their knowledge to real-world problems.

Industry relevance: The new scheme includes courses that are relevant to the current needs of the industry. This helps students to prepare for successful careers after graduation.



SEMINAR on Pedagogical Approaches in Education



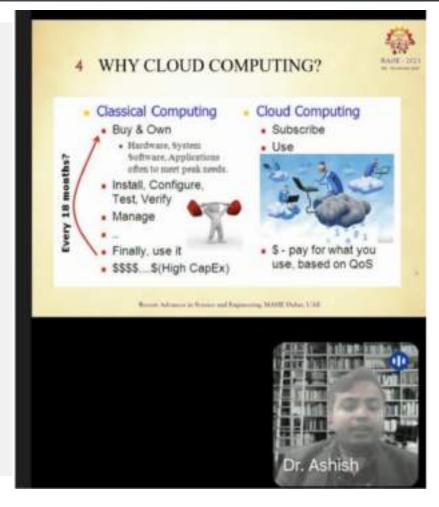
A seminar on Teaching Learning Tools targeting the topic "Pedagogical Approaches in Education" was organized by the IT department on 14 October, 2023. The talk was given by Dr. Anupama Kaushik, Associate Professor, Department of IT, MSIT. The talk was organized with the aim to equip faculty members knowledge about various pedagogical approaches apart from traditional teaching.

The talk started with the meaning of pedagogy and the goal of using pedagogical approaches for the students. It then discussed 12 pedagogical approaches which are: Flipped Classroom, Kinesthetic Learning, Direct Instruction, Differentiated Instruction, Inquiry-based Learning, Expeditionary Learning, Personalized Learning, Game based Learning, Socratic, Problem Based, Integrative and Constructivism.

WEBINAR on Cloud Computing (27th September 2023)

The department of Information Technology organized a webinar on "A Optimized Taxonomy on Spot cloud Sale Services Using Mathematical Methodology." on 27 september 2023, in online mode, from 3:30 pm to 5:30 pm. This webinar was given by Dr. Ashish Tiwari to Introduce the area of Cloud computing. Dr. Ashish Tiwari is currently working as Assistant Professor, Amity University, Lucknow. He has more than 09 years of experience.

the Cloud Computing webinar provided a comprehensive overview of the critical aspects surrounding cloud technology and its intersection with AI resource management. The event not only highlighted the significance of cloud computing but also offered a roadmap for harnessing AI's potential in optimizing cloud infrastruct ure.





WORKSHOP on Generative AI & Future of Jobs (17th October 2023)

An insightful and educational seminar was meticulously organized on 17th October 2023, at 10:00 am by the Department of Information Technology under the guidance of Dr. Jyoti Khurana (Assistant Professor and Proctor of IT-1, 5th Semester). The seminar was delivered by Mr. Upendra Kumar Tiwari, a seasoned professional with over 16 years of experience in the domain of Data Science. Mr. Tiwari possesses expertise in Machine Learning, Deep Learning, Computer Vision, autoML, and ML on the Cloud.

The seminar spanned for two hours during which students were introduced to fundamental terminologies prevalent in the realms of Data Science and AI/ML. Mr. Tiwari provided live demonstrations of Generative AI, dispelled common myths, and engaged the students. In the end, Mr. Kumar patiently addressed the queries and doubts raised by the enthusiastic students and concluded the session.

The workshop's highlights encompassed-Demonstrations of Generative Al Tools, including Chat GPT and GammaPPT. Insights into *Data Science and Machine Learning Libraries.

Emphasis on the importance of writing and referencing Research Papers.

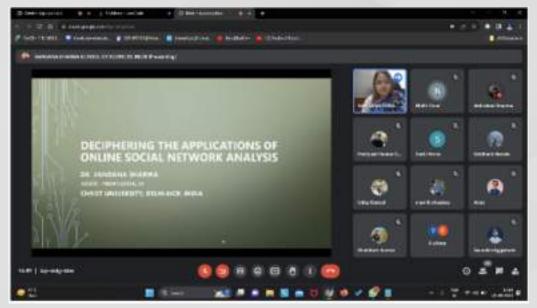
Effects of Generative AI on the future of jobs. Exploring career prospects in the fields of Data Science, AI/ML, ML on Cloud, and Web/App Technologies.

The session culminated with an interactive question and answer segment, leaving the students and faculty members enriched with valuable knowledge within a brief span. The participants appreciated their involvement and expressed their satisfaction with the event. The seminar was deemed a resounding success, and the *Honorable Guest Speaker* was duly acknowledged and pre sented with a memento.



WEBINAR ON

Deciphering the Applications of Online Social Network Analysis (25th September 2023)



Dr. Vandana Sharma's extensive experience and expertise in the field made the webinar a valuable learning experience for all participants at Maharaja Surajmal Institute of Technology.

On Monday, September 25th, 2023, a webinar titled "Deciphering the Applications of Online Social Network Analysis" was conducted at Maharaja Surajmal Institute of Technology. The webinar, featuring Dr. Vandana Sharma, aimed to provide participants with valuable insights into the world of Online Social Network Analysis (OSNA), its practical applications, and the tools and resources available for analysis.

Dr. Vandana Sharma is an esteemed academic and researcher, renowned for her significant contributions to the field of technology and social network analysis. Building upon the SNA foundation, Dr. Sharma transitioned into the domain of Online Social Network Analysis (OSNA).

FDPs ATTENDED

- 1 Ms. Nidhi Goel attended a one week FDP on "Blended Learning and Flipped Classroom", conducted by the Education and Educational Management Department at NITTTR, Chandigarh from 16-10-2023 to 20-10-2023.
- 2 Ms. Nidhi Goel attended 3 weeks Master Class on "Deep Learning" from 28-09-2023 to 18-10-22023.
- 3 Ms.Priyanka attended a one week FDP on "AI/ML and Data Science for Industry 4.0", conducted by the Computer Science and Engineering Department at NITTTR, Chandigarh from 21-08-2023 to 25-08-2023.
- 4 Ms.Priyanka attended a one week FDP on "Blended Learning and Flipped Classroom", conducted by the Education and Educational Management Department at NITTR, Chandigarh from 16-10-2023 to 20-10-2023.
- 5 Dr. Priya Dalal attended a one week FDP on "Blended Learning and Flipped Classroom", conducted by the Education and Educational Management Department at NITTTR, Chandigarh from 16-10-2023 to 20-10-2023.

- 6 Dr. Prabhjot Kaur completed a Swayam Course of 8 Weeks on "Big Data" from Sep.-Oct. 2023.
- 7 Dr. Sonika Malik completed a Swayam Course of 12 weeks on" Soft ware Engineering" from July-October 2023.
- 8 Prof. Tripti Sharma, Dr. Anupama Kaushik, Dr. Sonika Malik, Mr. Surender Singh, Dr. Preeti Rathee, Mr. Akshayh Singh, Dr. Minakshi Tomer, Dr. Tripti Rathee and Ms. Saba Khanum participated in the AICTE Recognized Faculty Development Programme on Blended Learning and Flipped Classroom Conducted by the Education and Educational Management Department from 16/10/2023 to 20/10/2023 (One Week) at NITTTR, Chandigarh.
- 9 Dr. Sitender successfully completed the Swayam course on Java Programming conducted by IIT Kharagpur.
- 10 Dr. Minakshi Tomer successfully completed the swayam course on Operating System conducted by IIT Kharagpur.
- 11 Dr. Sitender attended a one week FDP on "Outcome Based Education and Essential AI Tools for Teachers", conducted by IPSR Solutions Limited in online mode.
- 12 Ms.Mamta Ghalan attended a one week FDP on "Blended Learning and Flipped Classroom", conducted by the Education and Educational Management Department at NITTTR, Chandigarh from 16-10-2023 to 20-10-2023.
- 13 Ms.Mamta Ghalan attended a one week FDP on "Analysis Design and Algorithm", conducted by the NIT warangal, from 24-10-2023 to 25-10-2023.
- Ms Mamta Gahlan attended a one week FDP on "Complex network analysis", conducted by the Education and Educational Management Department at NITTTR, Chandigarh from 15-01-2024 to 19-01-2024.
- 15 Ms. Mamta Gahlan completed a Swayam Course of 8 Weeks on "Software Testing" from Aug-Sep 2023.
- 16 Ms. Nidhi Goel completed a Swayam Course of 8 Weeks on "Introduction to Machine Learning" from Aug-Sep 2023.
- 17 Ms. Ashish Kumari completed a Swayam Course of 12 Weeks on "Introduction to Internet of Things" from Aug-Oct 2023.
- 18 Dr. Priya Dalal attended a one week FDP on "AI/ML and Data Science for Industry 4.0", conducted by the Computer Science and Engineering Department at NITTTR, Chandigarh from 21-08-2023 to 25-08-2023.

Faculty Members

Professors

Prof. Prabhjot Kaur

Head of Department

Prof. Tripti Sharma

Associate Professors

Dr. Anupama Kaushik

Dr. Sunesh Malik

Dr. Bharti Sharma

Assistant Professors

Mr. Manoj Malik

Dr. Deepshikha Yadav

Mr. Parveen Kumar

Dr. Sandeep Singh

Ms. Saba Khanum

Ms. Ashish Kumari

Ms. Priyanka

Dr. Sonika Malik

Ms. Meena Siwach

Dr. Tripti Rathee

Ms. Mamta Gahlan

Ms. Preeti Sehrawat

Mr. Akshay Singh

Ms. Nidhi Goel

Dr. Jyoti Khurana

Mr. Surender Singh

Dr. Minakshi Tomer

Dr. Sitender

Dr. Preeti Rathee

Dr. Priya Dalal

Ms. Manju Dhull

Ad-hoc

Technical Assistants

1) Sh. Sunil Kumar

2 Ms. Neetu

Sh. Manoj Kumar

4 Mr. Vishal Panwar

Mr. Rajeev Kumar



Gallery of Events

EVENTS INCLUDE INDUSTRIAL VISIT, Sports Day, SEMINAR AND WEBINAR



























Patron:

Prof. Archana Balyan (Director, MSIT)

Editor:

Mr. Akshay Singh (Assistant Professor, IT) Chief Editor : Prof. Prabhjot Kaur (Head of Department, IT)

Designed By: Rishav Chandra (Batch 2021-2025 Student, IT)