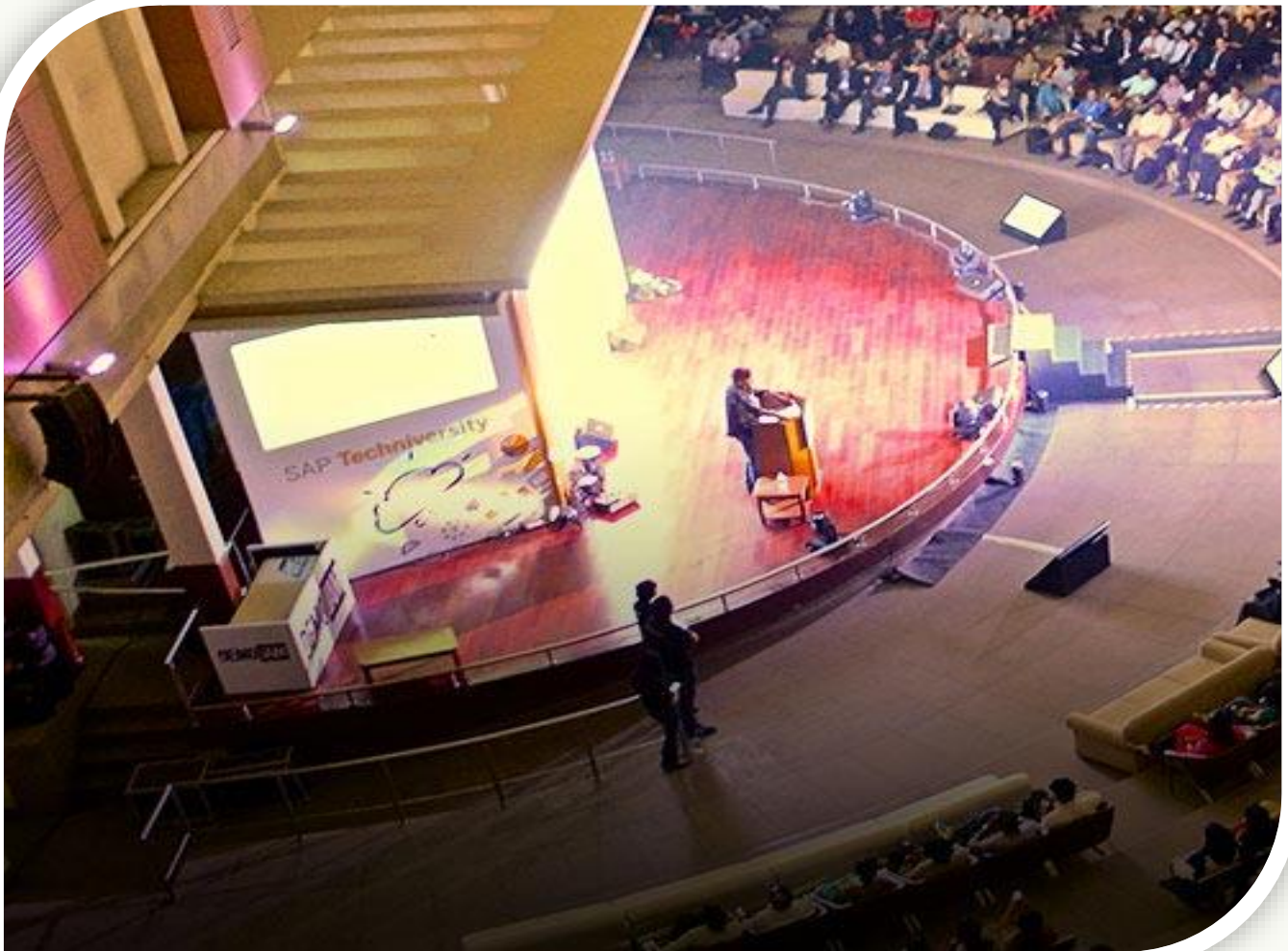


# i<sup>★</sup> - Aabhyantar

Newsletter of the Department of CSE & IT, JIIT, Noida



Department of Computer Science & Engineering and Information Technology

Jaypee Institute of Information Technology, Noida

(Deemed to be University under Section 3 of UGC Act 1956)

Editors: Prof. Mukesh Saraswat, Dr. Vikash, Dr. Anubhuti Roda Mohindra, Dr. Shweta Rani, Ms. Anuradha Surolia



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***Prof. Vikas Saxena***  
***Director & Head (CSE & IT)***



I am delighted and excited to present you the fifth issue of 'i-Aabhyantar', the newsletter of the CSE&IT Department, at Jaypee Institute of Information Technology (JIIT), Noida. It's a matter of pride and satisfaction that the department, with 130 faculty members and 130 Ph.D. scholars, is successful in achieving the prime goal of a university to create and disseminate knowledge. This newsletter is a small step to display various activities, academic achievements & success stories of our students and faculty. I strongly believe that 'i-Aabhyantar', will provide another platform for our students and stakeholders to get enlightened and participate in the growth of the department. I am very thankful to Prof. Mukesh Saraswat and editorial team members, Dr. Vikash, Dr. Anubhuti Roda Mohindra, Dr. Shweta Rani, and Ms. Anuradha Surolia, who worked very hard on this newsletter.



The Department of Computer Science & Engineering and Information Technology (CSE&IT) is thrilled to present the fifth edition of its departmental newsletter, "i-Aabhyantar". This issue encapsulates the department's achievements and strides from January to July 2023.

Under the visionary leadership of Founder Chairman Shri Jaiprakash Gaur, Hon'ble Chancellor Shri Manoj Gaur, Hon'ble Pro-Chancellor S. C. Saxena, and Hon'ble Vice-Chancellor Prof. B. R. Mehta, the CSE&IT department continues to innovate and excel. In today's digital age, computer science is pivotal in building a sustainable future and elevating living standards through economic and technological progress. Our department is at the forefront of this transformation, driving innovation and contributing significantly to this new era.

"i-Aabhyantar" serves as a global platform to disseminate the department's updates, statistics, and accomplishments. This newsletter offers a comprehensive overview of the semester's advancements and activities. The CSE&IT department remains committed to pushing boundaries, achieving new heights, and fostering exponential growth. "i-Aabhyantar" is dedicated to providing in-depth coverage of our journey, including our future endeavors.



With Regards,  
**Editors**





## *Vision and Mission of Institute*

### **Vision**

To become a Centre of Excellence in the field of IT & related emerging areas education, training and research comparable to the best in the world for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management.

### **Mission**

1. To develop as a benchmark University in emerging technologies.
2. To provide state-of-the-art teaching learning process and R&D environment.
3. To harness human capital for sustainable competitive edge and social relevance.

## *Vision and Mission of CSE&IT Department*

### **Vision**

To be a Centre of Excellence for providing quality education and carrying out cutting edge research to develop future leaders in all aspects of computing, IT and entrepreneurship.

### **Mission**

1. To offer academic programme with state-of-the-art curriculum having flexibility for accommodating the latest developments in areas of computer science and IT.
2. To conduct research and development activities in contemporary and emerging areas of Computer Science & Engineering and IT.
3. To inculcate IT & entrepreneurial skills to produce professionals capable of providing socially relevant and sustainable solutions.

## ***PROGRAMME EDUCATIONAL OBJECTIVES (PEOS) OF B.TECH. (CSE)***

**PEO 1:** To provide core theoretical and practical knowledge in the domain of Computer Science & Engineering for leading successful career in industries, pursuing higher studies or entrepreneurial endeavours.

**PEO 2:** To develop the ability to critically think, analyze and make decisions for offering techno-commercially feasible and socially acceptable solutions to real life problems in the areas of computing.

**PEO 3:** To imbibe lifelong learning, professional and ethical attitude for embracing global challenges and make positive impact on environment and society.

## ***PROGRAMME EDUCATIONAL OBJECTIVES (PEOS) OF B.TECH. (IT)***

**PEO 1:** To impart core theoretical and practical knowledge of Computer Science & Engineering and emerging Information Technologies for leading successful career in industries, pursuing higher studies or entrepreneurial endeavours.

**PEO 2:** To develop the ability to critically think, analyze, design and develop IT based solutions.

**PEO 3:** To imbibe the life-long learning and understanding of ethical values, their duties toward environmental issues and sensitize them toward their social responsibility as IT professional.



**Dr. Deepika Varshney**  
*Research Excellence Award 2023*  
*Delhi Technical University*

**Dr. Shailesh Kumar**  
Published Patent  
An Artificial Intelligence-based  
Smart Hand Sanitization System  
for Elderly



## PhD Awarded

### ❖ Ms. Neerja Negi

- **Title** – QoS based Efficient Web Services Selection
- **Awarded on** – January 2023
- **Supervisor** – Prof. Satish Chandra

### ❖ Ms. Shweta Kaushik

- **Title** – Improving Various Data Access Control Technique to Enhance security in Cloud Computing
- **Awarded on** – April 2023
- **Supervisor** – Prof. Charu Gandhi



## *Institute-Aided Project*

- ❖ *Recommendation System for automatic generation of adaptive course concept sequence for online learners*

**By Prof. Shikha Mehta**

- ❖ *Chatbots: From ELIZA to AI-Powered Assistants*

**A Journey Through Evolution**

**By Dr. Pulkit Mehndiratta**

- ❖ *E-sports and stress management for differently abled people*

**By Prof. Manish K. Thakur, Dr. Suma Dawn, Dr. Ashish**

**Mishra, Dr. Ankit Vidyarthi, Mr. Prashant Kaushik**

- ❖ *Context-aware digital image enhancement of X-ray film image*

**By Dr. Suma Dawn**

- ❖ *Reliable classification of cyclic alternating pattern (CAP) for sleep disorders*

**By Dr. Megha Agarwal**

# Invited Talks

i-Abhyantar

**Title:** Holistic Perspective of Life from the Bhagavat Geeta

**Speaker:** Dr. Dhananjay Mani Tripathi, Assistant Professor, Jamia Millia Islamia, New Delhi

**Organized:** Prof. Dharamveer Singh Rajpoot, Student Counselling Centre of IIIT Noida





**Title:** Importance of Time Management in Student/ Professional Life

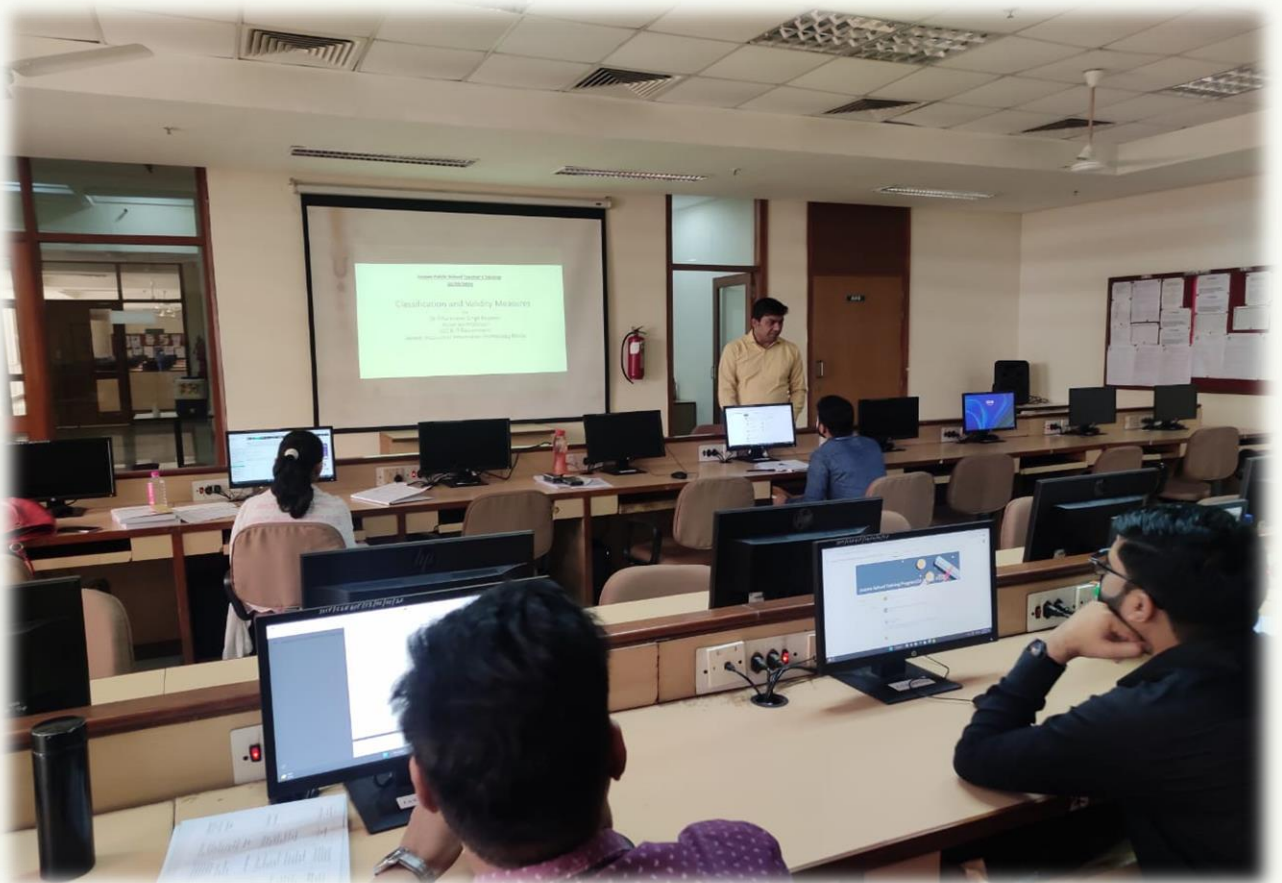
**Speaker:** Dr. Rakesh Prakash, Associate Professor, Amity School of Communication

**Organized:** Prof. Dharamveer Singh Rajpoot, Student Counselling Centre of JIIT Noida



## 2nd Jaypee Education Synergy Teacher's Training Program for Post-Graduate Teachers

**Speaker:** Prof. Dharamveer Singh Rajpoot





## NetSim Standard Version

NetSim is a powerful network simulation software that enables users to create, simulate, and analyze complex network scenarios. It is a widely used tool for designing and testing networks, protocols, and applications in a virtual environment. NetSim provides an interactive and user-friendly interface that allows users to build network models using pre-built components, customize network parameters, and visualize the network topology. On the account of purchase of NetSim Standard version by

JIIT University purchased of NetSim Standard version for academic and research purposes, a training program was organized in collaboration with Tetcos Systems, Bangalore via virtual mode, from 03-05 April 2023 to faculty members of CSE/IT to create awareness of the tool usage for conducting research activities.

Resource Person:

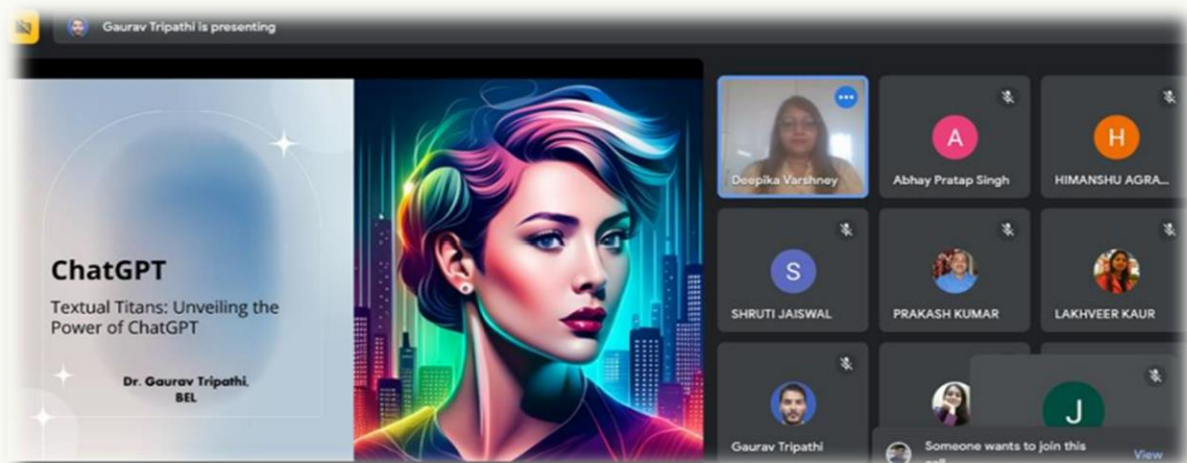
- ❖ **Mr. Amruth Gudigar, Developer and Application Engineer, TETCOS LLP**
- ❖ **Ms. Nidhi Mariswamy, Developer and Application Engineer, TETCOS LLP**



## *Artificial Intelligence Tools*

Department of Computer Science Engineering and Information Technology, Jaypee Institute of Information Technology, Noida, exploring the machine learning approach for different areas of interest. In this direction, Prof Krishna Asawa and the team have successfully organized a six-day Faculty Development Program on Artificial Intelligence Tools from June 28 –July 3, in Online mode. The FDP explores different dimensions related to fundamentals of AI Tools, Apache Spark, Smart Sensing based Approaches for Supporting Independent Living of the Elderly, Reinforcement Learning for Optimization Problems, Machine Learning and its application in 5G Networks, AI Tools: PyTorch and ChatGPT, TensorFlow and Keras field along with the basic knowledge of every area.

The FDP on AI Tools will empower faculty members with the knowledge, skills, and confidence to leverage AI tools effectively in their academic and professional pursuits, ultimately fostering innovation and advancing AI adoption in education and research.



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# Book Chapters

## i-Abhyantar

- ❖ Kavita Pandey, Dhiraj Pandey, Rijwan Khan, "Chapter six - A Medical Assistant for the Visually Impaired", in book titled as "Advancements in Bio-Medical Image Processing and Authentication in Telemedicine", IGI Global, February, 2023. pp. 91-110.
- ❖ S. Mittal. "A review of machine learning techniques in cybersecurity and research opportunities". Machine Learning for Cyber Security, edited by Preeti Malik, Lata Nautiyal and Mangey Ram, Berlin, Boston: De Gruyter, 2023, pp. 91-116.
- ❖ Garg, R., Aggarwal, K., Arora, A. (2023). Applications of Augmented Reality in Medical Training. In: Sahni, M., Merigó, J.M., Hussain, W., León-Castro, E., Verma, R.K., Sahni, R. (eds) Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy. Advances in Intelligent Systems and Computing, vol 1440. Springer, Singapore.
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## Hackathon

OSDHack 2023 is an online hackathon being organized by the Open Source Developers Community of IIIT, Noida. It is a 48-hour-long congregation of like-minded hackers and tech enthusiasts where participants will brainstorm and build on their ideas. 900 students participated in the event.







- ❑ **Pranav Kumar got the Certificate of Excellence (3rd position), Manifest Varchasva, inter-university.**
- ❑ **Highest Salary Package Rs 82.89 Lacs by Atlassian (01 Offer)**
- ❑ **719 total offers**
- ❑ **18 companies offer packages above 25 Lacs to 82.89 (59 offers)**
- ❑ **38 companies offer salary Packages of Rs 12 to 24.99 Lacs (97 Offers)**
- ❑ **68 companies with packages 6 to 11.99 (340 Offers)**

Tanya Pandhi Joined the M.S. program at the University of Southern California, California.

Karan Tejwani Joined the M.S. program at Rochester Institute of Technology, NEW York, USA.

Vatsal Agarwal Joined the M.Tech. program at IIT Delhi.

## Alumni Meet April 2023



Alumni Meet



**Reality-A poetry about overthinking that leads to confusion in choosing what's right**

*I still don't know what the reality is,  
Reality to every topic that I give an angle.  
I just keep piling thoughts over it,  
Opinions by opinions I just end up creating a tangle  
"Why and why not" These are still unanswered,  
The deeper I go, the more confusing it gets,  
somewhere I know the answers to questions are very clear,  
But this soul stays quiet, its judgement that i fear.  
And then I question, why me?  
Just a bunch of adjectives, is that all I see?  
Letting the demons exploit those little cracks of insecurity  
Unable to distinguish, that I was a gem and not an impurity  
It's terrifying,  
How a perception, shadowless rose up in this mind  
While hidden in the shards of distress,  
It was A Reflection that I couldn't find.  
For these storming thoughts have left me confused  
I try to reach a conclusion, logic remains diffused  
No one truly understands, the complexities of this stream  
For it remains to be an unexplored ground, it remains to be a dream  
So I chose to keep going with this untamed flow  
For these words will be unreal in the real world glow  
For once again this cycle shall repeat  
And happily again I'll accept defeat..  
So while I wish to define this mental state  
I can't offer an explanation to this never ending debate  
At least I know I am not on the wrong side of the road  
At least hope can counter my ever increasing load  
So I let my mind take control over this rift  
For this reality my friends can be infectious.*



**Manas Tripathi  
Batch 2020**

## tu to ek banī hī be-misāl haiñ



*Sarthak Chaturvedi  
Batch 2020*

tu to ek banī hī be-misāl haiñ  
tere ek dīdār se merā hogā kyā

tasabvūr jo terā to haiñ sahārā zindagī kā merī  
jayenge jo dūr tum se to khvāboñ kā mere hogā kyā

tum se the silsile to zindagī ābād thī  
tumhāre ba.ad is vāqiye kā hogā kyā

main to sochā kartā har din har rāt is bāt ko  
ke jab tu hogā merā tab vo lamhā hogā kyā

ke guzarte manzar se pūchā kartā main har vaqt  
kyā dil meñ bhī us ke kahīñ khayāl bhī merā hogā kyā

roke to bhī nahīñ rukte ashq jo ab  
ke jā chuke ko phir pukār ke hogā kyā

terī āñkhoñ meñ to merī har ḥasrat bahā kartī haiñ  
in hī āñkhoñ meñ hī dūbe rahe to kinārā kahīñ hogā kyā

kyuūñ jo tu kahtī haiñ ‘sach’ se ulfat mumkin nahīñ  
ke batā ai hasīn bin tere jīnā bhī kabhī jīnā hogā kyā





**Department of Computer Science & Engineering and Information Technology**



**Jaypee Institute of Information Technology, Noida**

**(Deemed to be University under Section 3 of UGC Act 1956)**

