

## USI- DIGEST

### Vision of the Department

“Provide experimental, innovative knowledge in the field of computer science and engineering to meet the National and Global needs”.

### Mission of the Department

#### **Editorial Board:**

##### **Chief Editor:**

**Dr. Hrituparna Paul**

*Associate Professor*

##### **Faculty Editor:**

**Mrs. Anima Srivastava**

*Assistant Professor*

##### **Student Members:**

**Soni Agarwal**

**Anant Srivastava**

##### **Inside This Issue**

- *Events*
- *Faculty Publications*
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- *Workshops and Webinars*
- *Student's achievements*
- *Placements*

**M1:** *To offer professional leaning environment for student in Computer Science & Engineering ensuring fundamentals and analytical ability..*

**M2:** *To have research and development collaborations to keep side by side with emerging technological advancements and create cutting edge technology-driven solutions for problems faced by Society and Industries..*

**M3:** *To inculcate social and ethical values in students for the wellbeing of the nation and globe.*

**M4:** *To motivate students for higher studies, entrepreneurship ability ,innovative activities for the lifelong learning and sustainable development.*

### Program Educational Objectives (PEOs) of Department

**PEO1:** *Graduates will be able to take up technical/ professional positions for design, development and problem solving in software industries, R&D organizations as well as will be a solution provider as an entrepreneur in various areas of Computer Science & Engineering.*

**PEO2:** *To understand their ethical professional, legal, and social responsibilities and contribute for the betterment of the society through active engagement with professional societies, schools, civic organizations or other community activities.*

**PEO3:** *Graduates will be capable and competent to pursue higher studies in Institutions of International / National repute.*

## Workshop on personal Efficiency and Effectiveness by Dr. Mitu Mandal (Asst. Prof, MNNIT Allahabad) in department in CSE on 14 Nov,2022

The Department of Computer Science & Engineering organized a One-day workshop for students on “**personal Efficiency and Effectiveness**” on 14th November 2022 . The workshop was attended by more than 150 students and the instructor for the workshop was **Dr. Mitu Mandal, Asst. Professor, MNNIT Allahabad** . After the inauguration, the content flow, objectives and outcomes of the workshop were discussed. Speaker discusses about the understanding of the concepts of efficiency and effectiveness in a personal and professional context and also to Develop goal-setting techniques to align daily tasks with long-term objectives. Speaker describes how to identify personal productivity barriers and how to overcome them.





# Invited talk on Emerging Technology Suitable for Space Application by Dr. Kumar Krishen in Dept. of CSE & IEEE Student branch on 8-12-2022

The Department of Computer Science & Engineering and IEEE Student Chapter organized an Invited talk for students on “Emerging Technology Suitable for Space Application” on 8<sup>th</sup> December 2022. This programme was attended by more than 100 students and the speaker for the workshop was **Dr. Kumar Krishen, Chief Technologist, NASA & Vice President - Innovation, RD Engineering College**. Speaker discusses about the rapidly transforming the space industry, enabling new missions, enhancing the efficiency of space operations, and expanding humanity's reach into the cosmos.



# Expert Talk on Time Management by Sarfaraz Ahamad Ansari Dept. of CSE on 21-11-2022

The Department of Computer Science & Engineering and IEEE Student Chapter organized an Invited talk for students on “**Time Management**” on 21 November 2022. This programme was attended by more than 80 students and the speaker for the workshop was **Mr. Sarfaraz Ahamad Ansari**. Speaker discusses about the In today’s fast-paced world, managing time effectively has become an essential skill for personal and professional success. With endless to-do lists, constant distractions, and the pressure to be always “on,” it’s easy to feel overwhelmed. Speaker also describes how can help students to regain control, boost productivity, and reduce stress.





**Hackathon -2022 Midnight coding Competition  
SIET Coding Club and Dept. of CSE 24 Feb 2023**



Department of Computer Science & Engineering and SIET Coding Club was organized a **Hackathon -2022 Midnight coding Competition** among the third Year and Second Year CSE Students.

**Dr. Bheem Rao Ambedkar Jayanti Dept.of CSE & SIET on  
14-04-2023**



## Expert Talk on Career Perspective in Machine learning by Dr. Neha Baranwal

The Department of Computer Science & Engineering organized an Invited talk for students on “**Career Perspective in Machine learning**” on 11<sup>th</sup> May 2023 . This programme was attended by more than 50 students and the speaker for the workshop was **Dr. Neha Baranwal**. Speaker discusses about the wide range of exciting and rapidly growing career opportunities. As businesses and industries increasingly rely on data-driven decision-making, the demand for ML professionals continues to rise. She focuses on designing, implementing, and deploying ML models. Strong programming skills, particularly in Python or R, and knowledge of ML frameworks like TensorFlow, PyTorch, or Scikit-learn are essential. Speaker suggested that make efforts to build ML models more interpretable and understandable and deploying ML models directly on devices rather than in the cloud to reduce latency and improve privacy.



Shot on OnePlus  
By Jini



# Blood Donation Camp in Dept.of CSE & SIET



**World Environment Day celebration  
Department of Computer Science &  
Engineering, SIET**



**Department of Computer Science & Engineering SIET, Prayagraj Organises an awareness of women's by DR. R BAWEZA Dept.of CSE & SIET on 02-03-2023**

The Department of Computer Science & Engineering organized an health awareness program for female students on 2<sup>nd</sup> March 2023 . This programme was attended by more than 80 students and the speaker for the workshop was **Dr. R. Baweza (Renowned Gynocologist)**. Women face a range of unique health challenges due to biological, hormonal, and societal factors. Speaker discusses about Menstrual Disorders, Polycystic Ovary Syndrome (PCOS) problems, Endometriosis, Uterine Fibroids, Pelvic Inflammatory Disease (PID), Breast Cancer, Thyroid Disorders etc.





## International/ National Journals

- ❖ **Shiksha Singh,**” Breast cancer detection from histopathology images with deep inception and residual blocks”, Multimedia Tools and Applications, (<https://link.springer.com/article/10.1007/s11042-021-11775-2>).
- ❖ **Hrituparna Paul,**” Solar Radiation Prediction using Artificial NeuralNetwork: A Comprehensive Review”, Computational Intelligence in Data Mining. DOI: 10.1007/978-981-16-9447-9. ISBN: 978-981-16-9446-2. (Springer Nature).
- ❖ **Akhilesh Kumar,**” Software-Defined Content Delivery Network at the Edge for Adaptive Video Streaming, International Journal of Network Management (IJNM), 2022.
- ❖ **Anima Srivastava,**”Leveraging Twitter Data to understand Sentiments on New Income Tax Reforms in India” in Design Engineering Journal, ISSN: 0011-9342, ISSUE:7|Pages:2886—2898. [http://www.thedesignengineering.com/index.php/DE/article/view/2702\(ScopusIndexe\)](http://www.thedesignengineering.com/index.php/DE/article/view/2702(ScopusIndexe))
- ❖ **Anima Srivastava,**”Hybrid Recommender System based on Singular value decomposition using content features” in Neuro Quantology Oct 2022(Scopus Indexed).
- ❖ **Niraj Kumar Tiwari, Praveen Kumar Tripathi, Rajesh Tripathi, Prashant Srivastava, Shivam Bhardwaj** “Enhancement of Layered Security in IoT for Cloud Infrastructure” Published in International Journal of - Science and Research (IJSR), Volume 10 | Issue 10 | October 2022 DOI: <http://doi.one/10.1729/Journal.31946>.
- ❖ **Praveen Kumar Tripathi, Ratnesh Kumar Shukla, Radha Raman Chandan,** “Security Analysis of Message Transmission using Quantum Cryptography”, NeuroQuantology, October 2022, Volume 20, Issue 14, Page 769-774 , Doi: 10.4704/nq.2022.20.14. NQ880107.
- ❖ **Niraj Tiwari, Praveen Kumar Tripathi,** “Enhancement of Layered Security in IOT for Cloud Infrastructure”, International Journal of Creative Research Thoughts (www.ijert.org )& 7.97 Impact Factor by Google Scholar, Volume 10 Issue 10 October 2022 , Date of Publication: 20-October-2022, UGC Approved Journal No: 49023 (18).

## International/ National Conferences

1. **Shiksha Singh,**” A Blind Noise Estimation and Removal in Histopathological Images”, 3rd International Conference on Advanced Computing and Software Engineering (ICACSE-2021).
2. **Shiksha Singh,** ”Smart City Surveillance: Survey on Current Status and Future Trends”,11th International Conference on Recent Trends in Information Processing & Computing (IPC-2022).
3. **Shiksha Singh,** ”Some methods for digital Image forgery detection and Localisation”,3rd International Conference on Data Analytics and Management (ICDAM-2022).
- 4.

5. **Hrituparna Paul**, “Solar Radiation Prediction using Artificial Neural Network: A Comprehensive Review”. 6th International Conference on Computational Intelligence in Data Mining (ICCIDM-2021). Aditya Institute of Technology and Management, K. Kotturu, Tekkali, Srikakulam District, Andhra Pradesh. 11-12,December/2021. (Springer).
6. **Hrituparna Paul**, “Smart City Surveillance: Survey on Current Status and Future” Trends”,11th International Conference on Recent Trends in Information Processing & Computing (IPC-2022).

### Book /Book Chapters

1. Computer System Security” by **Niraj Kumar Tiwari and Praveen Kumar Tripathi** published by S.K. Kataria& Sons, New Delhi, ISBN No: 978-93-5014-761-0, published in 2022.
2. “Data Analytics” by **Niraj Kumar Tiwari and Praveen Kumar Tripathi** published by S.K. Kataria& Sons, New Delhi, ISBN No: 978-93-5014-740-5, published in 2023.
3. Fundamentals of Machine Learning & Deep Learning by Dr. G. Ramasubba Reddy, **Dr.Hrituparna Paul**, Ms.V. Rani, Ms.J.Annie Jennifer ; Publisher: SIPH , ISBN: 97893562554

### *Faculty Participation in FDP’s and Short-Term Courses*

1. **Shiksha Singh**, Attended SiSERB Sponsored Karyashala on "Blockchain Technology: Architecture and Application" organised by IIIT, Kota.(28th Nov'2022- 04th Dec'2022).
2. **Anima Srivastava**, Attended FDP AICTE Training and Learning (ATAL) Academy Sponsored faculty Development Programme on ""DATA ANALYSIS USING SPSS" January 03-07, 2022, organized by Department of Commerce, C.M.P. Degree College, University of Allahabad, Prayagraj.
3. **Anima Srivastava**, Attended one-week online FDP on (20- 25 August 2022) "AI and ML Applications in Electrical and Electronics Engineering." jointly organized by Department of Electrical Engineering and Electronics and Communication Engineering, S.I.E.T Prayagraj, JK Institute of Applied Physics and Technology, Prayagraj, Department of Electronics & Communication Engineering, I.E.T., Dr.RammanoharLohia Avadh University, Ayodhya.
4. **Hrituparna Paul**, Participated One Week FDP on Mathematics for Data Science and Machine Learning 02-09 January, 2023.



5. **Shivam Bhardwaj** Participated in the one week Faculty Development Program on “Introduction to Python Programming and its Applications” organized by E&ICT Academy IIT Guwahati held from 21 - 26 February, 2022.
6. **Shivam Bhardwaj** Participated in the One-week Short-term Course on “Practical Aspects of Machine Learning” organized by department of Computer Science & Engineering at Kamla Nehru Institute of Technology Sultanpur U.P. held from February 07– 11, 2022.

### ***Faculty Patents Granted/ Filed/ Applied***

- HrituparnaPaul, Indian Patent:” An Air Purifier”, Application No:353069-001, C.B.R. No.209782 Filed On: 13/11/2021 Granted On: 04/01/2023 by IPI, Govt. of India, Certificate No: 123750
- Hrituparna Paul, Indian Patent:” WIRELESS ROBOT FOR FLOOR CLEANER”, Application No:379749-001, C.B.R No. 202318 Filed On: 21/02/2023.
- Hrituparna Paul, Indian Patent: Artificial Intelligence and IOT based Automatic smart health care system to monitor and avoid Blood Pressure and Lung cancer to avoid it early stages for healthy life for all ages using WSN, image processing and deep learning, Application No:202241064381, Filed On 10/11/2022; Published On 25/11/2022
- Hrituparna Paul, Indian Patent: Automatic Computer Vision-based accident system through image processing and video surveillance using Deep Learning Algorithms, Application No:202241041367, Filed On 19/07/2022; Published On 29/07/2022.
- **Shivam Bhardwaj** applied for, Indian Patent: Application Number- 202241063449 - TEMP/E-1/73196/2022-CHE - IoT and AI based Smart health monitoring wrist device to connect doctor-patient to assist immediate medical attention/guidance for BP, sugar, HB by exchanging data in hybrid cloud.

## PLACEMENTS

A total of **67** students of B.Tech. (CSE) are placed in software and hardware companies like WIPRO, Daffodil Software Ltd, TCS, TCI etc. during Academic Year 2022-2023.

PLACEMENTS REPORT ACADEMIC YEAR 2022-2023				
S. No	Name	Enrollment No	Company	Pay Package
1.	Piyush Srivastava	1816210048	Daffodil Software Ltd	6.5 LPA
2.	Pradyumn Kumar	1816210049	Daffodil Software Ltd	6.5 LPA
3.	Mohd. Rafey Khan	1816210036	Daffodil Software Ltd	6.5 LPA
4.	Adarsh Pandey	1816210005	Daffodil Software Ltd	6.5 LPA
5.	Akash Pandey	1816210001	WIPRO	6 LPA
6.	Ishita Malviya	1816210028	WIPRO	6 LPA
7.	Sparsh Verma	1816210082	WIPRO	6 LPA
8.	Neeraj Dubey	1816210042	WIPRO	6 LPA
9.	Richa Mishra	1816210054	WIPRO	6 LPA
10.	Saurabh Dubey	1901620109009	WIPRO	6 LPA
11.	Rohit Kumar Singh	1816210057	WIPRO	6 LPA
12.	Shivendra Prakash Mishra	1816210078	WIPRO	6 LPA
13.	Abhishek Kumar	1901620109002	WIPRO	6 LPA
14.	Vivek Dwivedi	1816210089	WIPRO	6 LPA
15.	Rabiya Basri	1901620109008	WIPRO	6 LPA
16.	Saurabh Tiwari	1816210063	WIPRO	6 LPA
17.	Shashank Pandey	1816210073	WIPRO	6 LPA
18.	Ankit Srivastava	1901620109004	WIPRO	6 LPA
19.	Shivam Kumar Singh	1816210077	WIPRO	6 LPA
20.	Aditi Pandey	1816210007	WIPRO	6 LPA
21.	Abhishek Shukla	1816210003	WIPRO	6 LPA
22.	Mohd. Shivali	1816210038	WIPRO	6 LPA
23.	Kritika Singh	1816210031	WIPRO	6 LPA
24.	Abhishek Singh	1901620109003	WIPRO	6 LPA
25.	Ganesh Giri	1816210024	Mobiloitte Technologies Ltd	5 LPA
26.	Ritika Chandel	1816210055	TATA Consultancy Services Ltd.	6 LPA
27.	Vikash Gaurav	1816210088	TATA Consultancy Services Ltd.	6 LPA
28.	Mirza Saad Ali	1816210035	TATA Consultancy Services Ltd.	6 LPA
29.	Amit Kumar Kushwaha	1816210010	TATA Consultancy Services Ltd.	6 LPA
30.	AhadRahmani	1816210008	TATA Consultancy Services Ltd.	6 LPA
31.	Vaibhav Shukla	1816210087	Transport Corporation of India Ltd. (TCI)	5.5 LPA
32.	Shreya Agrawal	1816210079	Transport Corporation of India Ltd. (TCI)	5.5 LPA
33.	Utkarsh Mishra	1816210086	Transport Corporation of India Ltd. (TCI)	5.5 LPA
34.	Nisha Gupta	1901620109006	Transport Corporation of India Ltd. (TCI)	5.5 LPA
35.	Anubhav Srivastava	1816210014	iOPEX Technologies	5.5 LPA
36.	Hena Fatima	1816210026	iOPEX Technologies	5.5 LPA
37.	Tanya Srivastava	1816210085	iOPEX Technologies	5.5 LPA
38.	Vitthal Chaurasiya	1901620109014	iOPEX Technologies	5.5 LPA



39.	Devanshi Pandey	1901620109005	iOPEX Technologies	5.5 LPA
40.	Abhilash Chatterji	1901620109001	iOPEX Technologies	5.5 LPA
41.	Mohd. Ali Rizvi	1816210039	Signity Corporate Solution Pvt. Ltd.	5.5 LPA
42.	Rudransh Pathak	1816210058	Signity Corporate Solution Pvt. Ltd	5.5 LPA
43.	Ashish Kumar	1816210017	Rang Technologies Ltd	5.5 LPA
44.	Divyanshu Singh	1816210023	Stay In Front	5.5 LPA
45.	Gaurav Kesarwani	1816210025	Stay In Front	5.5 LPA
46.	Suraj Kr. Yadav	1816210083	Stay In Front	5.5 LPA
47.	Kanchan	1816210030	Stay In Front	5.5 LPA
48.	Mohd. Asif	1816210037	Stay In Front	5.5 LPA
49.	Shahbaz Siddiqui	1816210067	Stay In Front	5.5 LPA
50.	Ayush Kr. Mishra	1816210020	Stay In Front	5.5 LPA
51.	Ashish Srivastava	1816210018	Stay In Front	5.5 LPA
52.	Soumya Srivastava	1816210081	Stay In Front	5.5 LPA
53.	Neeraj Yadav	1816210043	Stay In Front	5.5 LPA
54.	Mohit Kumar Verma	1816210041	Stay In Front	5.5 LPA
55.	Sajal Srivastava	1816210059	Stay In Front	5.5 LPA
56.	Shiva Dubey	1816210074	Stay In Front	5.5 LPA
57.	ShashankDwivedi	1816210071	Stay In Front	5.5 LPA
58.	Shambhavi Srivastava	1816210069	JustDial Ltd	5 LPA
59.	Shahzeb Khan	1816210068	JustDial Ltd	5 LPA
60.	ShadmaParveen	1816210066	JustDial Ltd	5 LPA
61.	SeemaVerma	1816210065	JustDial Ltd	5 LPA
62.	Pavnesh Kumar	1816210047	JustDial Ltd	5 LPA
63.	Ananya Shukla	1816210012	JustDial Ltd	5 LPA
64.	Kumar Shubham	1816210033	IGT Solutions	5 LPA
65.	Kumar Shivam	1816210032	IGT Solutions	5 LPA
66.	Mohd. Ashraf Ansar	1816210040	Pyramid Consulting	5 LPA
67.	Aman Dubey	1816210009	Unthinkable Solutions LLP	5 LPA

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