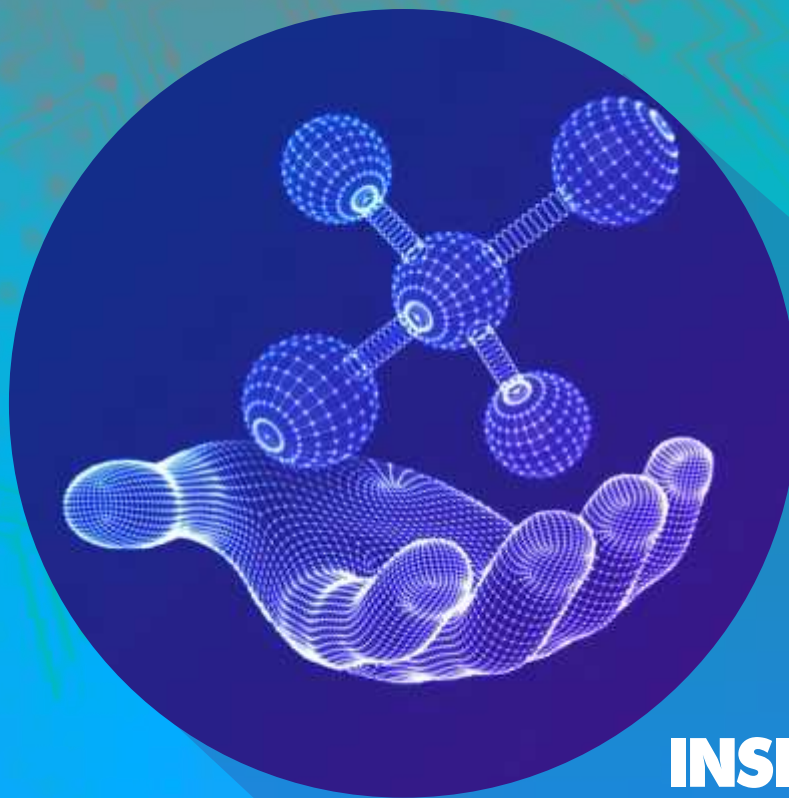SHARDA
UNIVERSITY
Beyond Boundaries

TECHNOVIKA

(A bi-annual Magazine of Department of Computer Science & Engineering)

SCHOOL OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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NEWSLETTER

ISSUE: MAY 2022

VISION ▶

To be recognized as the fountainhead of excellence in technical knowledge and research in computer science and engineering to attract students and scholars across the globe.

MISSION ▶

M1: To strengthen a successful, ethical, effective problem solver in Computer Science & Engineering through analytical learning.

M2: To promote interdisciplinary research & innovation-based activities in emerging areas of technology globally.

M3: To facilitate and foster the industry-academia collaboration to enhance entrepreneurship skills and acquaintance with corporate culture.

M4: To inculcate in them a higher degree of social consciousness and moral values towards solving interdisciplinary societal problems using industry-academia collaboration.

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DEPARTMENT EVENTS

Five days faculty development programme on design thinking for creativity and innovation was organized in the Computer Science and Engineering department, School of Engineering and Technology, Sharda University during 3 rd January 2022 - 7 th January 2022. The speaker of the event was Mr. Karmjitsinh Bihola, Founder, INNODESK. Total 48 members (26 Male, 22 female) attended the session. The Objective of the Event is to develop creative & critical thinking abilities, to learn new approaches of the innovation and to Better understand our students and deliver curriculum to their needs.

Roadmap to Career in Cyber Security was organized in the Computer Science and Engineering department, School of Engineering and Technology, Sharda University on 29 th January 2022, during 3:00 pm – 5:00 pm. The speaker of the event was Mr. Ritwick Dadhich, Cyber security analyst @ TCS on cyber security. Total 535 students attended the session. Objective of the Event was to provide a broad overview of a complete roadmap to cyber security and to Throw light on the insight of Cyber world and the essence of security.

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Interactive session on Data Security and the CTF was organized in the Computer Science and Engineering department, School of Engineering and Technology, Sharda University on 23 rd January 2022. The speaker of the event was Mr. Aditya Rai, Security Engineer @ TCS. The Objective of the Event was to provide a broad overview of what "Data Structure" is all about and to throw light on the insight of capture the flag events and its future scope.

Workshop on IPR Awareness & Patent Filing was organized in the Computer Science and Engineering department, School of Engineering and Technology, Sharda University on 24 th March 2022. The speaker of the event was Mr. Shailendra Singh. The Objective of the Event was to impart great awareness about the issue of IPRs. The participants of the workshop will be able to understand the procedures to convert the research outcome into patents.

Department of Computer Science and Engineering, SET, organized a competitive hacking event "Sharda capture the flag(CTF) on 29 th - 30 th March 2022. The objective of the event was to capture flags to increase their score and to create awareness of cyber security in the form of vulnerability assessment of the target. The speaker of the event was Mr. Rakshit Tondon, Cyber security specialist.

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RESEARCH AND DEVELOPMENT

Title of Paper	Name of Author/s	Name of Journal	Name of Journal
Exploratory Analysis of Air Quality in India	Sudeep Varshney, Sunil Kumar, Preeti Dubey, Amit Upadhyay and Ridhima Gupta	Indian Journal of Environmental Protection	2022
Fault aware intelligent resource allocation using Big Bang Big Crunch trained neural network for cloud infrastructure	Punit Gopta, Shikha Mundra, Mayank Kumar Goayl, Supriya Khaitan, Ritu Dewan, Ankit Mundra and Abha Kiran Rajpoot	Journal of Intelligent and Fuzzy Systems	2022
Nature inspired fault tolerant task allocation in cloud computing using neural network model	Punit Gopta, Pradeep Rawat, Rajan Prasad Tripathi, Ankit Mundra, Shikha Mundra, Mayank Kumar Goyal, Mandeep Kaur and Ruchi Agarwal	Journal of Intelligent & Fuzzy Systems	2022
Classification of imbalanced medical data: an empirical study of machine learning approaches	Shikha Mundra, Shounak Vijay, Ankit Mundra, Punit Gupta, Mayank Kumar Goyal, Mandeep Kaur, Supriya Khaitan and Abha Kiran Rajpoot	Journal of Intelligent & Fuzzy Systems	2022
Optimizing Sentiment Strength Detection for Classification for Airline Opinion Texts	Abha Kiran Rajpoot, Parma Nand, Ali Imam Abidi	Journal of Intelligent & Fuzzy Systems	2022
Quantum-inspired firefly algorithm integrated with cuckoo search for optimal path planning	Harish Kundra, Wasim Khan, Meenakshi Malik, Kantilal Pitambar Rane, Rahul Neware and Vishal Jain	International Journal of Modern Physics C	2022
Advance cataloguing method for breast cancer detection	Harish Kumar, Anuradha, Tarun Maini, Dileep Kumar Yadav and Sumit Mohan	International Journal of Modern Physics C	2022
Selection of Smart Manure Composition for Smart Farming Using Artificial Intelligence Technique	Danish Ather, Suman Madan, Manjushree Nayak, Rohit Tripathi, Ravi Kant, Sapna Singh Kshatri, Rituraj Jain	Journal of Food Quality	2022

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Title of Paper	Name of Author/s	Name of Journal	Name of Journal
An extensive review of performance enhancement techniques for pyramid solar still for solar thermal applications	Ganesh Angappan, Selvakumar Pandiaraj, Hitesh Panchal, Thangamuthu Kathiresan, Danish Ather, Chiranjit Dutta, Manoj Karuppanagounder Subramaniam, Suresh Muthusamy, A.E. Kabeel, A.S. El-Shafay, Kishor Kumar Sadasivuni	Desalination	2022
Automatic Plant Watering System Using IoT	Aaditya Yadav, Shirshak Thapa, Abhay Raj Kushwaha, Manish Agrawal, Saloni Shah, Pankaj Sharma	International Journal of All Research Education & Scientific Methods	2022
Discriminating the Pneumonia-Positive Images from COVID-19- Positive Images Using an Integrated Convolutional Neural Network	Vetrithangam D , V. Indira, Syed Umar , Bhaskar Pant, Mayank Kumar Goyal , and Arunadevi B	Mathematical Problems In Engineering	2022

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STUDENTS ACHIEVEMENTS

Mr. Kumar Kanishk Pandey, (CSE, 3 rd Year) was the speaker in the Roadmap to data structure and algorithms (DSA) event, conducted in the Computer Science and Engineering department, School of Engineering and Technology, Sharda University on 30th January 2022. The objective of the event was How to get started with coding, and the best practices to learn Data structures.

Ms. Surayya Ado Bala has successfully defended her Ph.D. degree on "Development of Deep Learning Models for Medical Diagnostic using Magnetic Resonance Images" from Sharda University.

Ms. Bindu Rani has successfully defended her Ph.D. degree on "Development of Methodologies for Decision making on Big Data" from Sharda University.

Department of Computer Science and Engineering , School of Engineering and Technology, Sharda University organized a community connect visit in the village Rampur, Greater Noida on Monday 25th April, 2022 for the students of MCA, M.Tech., M.Sc. and BCA+MCA integrated to interact with the village people and students to analyze their problems.

Sirsa, Uttar Pradesh, India
Bulandshahr Rd, Sirsa, Uttar Pradesh 203202, India
Lat 28.432148°
Long 77.579571°
25/04/22 01:47 PM

Greater Noida, Uttar Pradesh, India
CHJJ+73C, Greater Noida, Uttar Pradesh 203202, India
Lat 28.431173°
Long 77.580022°
25/04/22 12:24 PM

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CAMPUS PLACEMENTS

Student's Name	Name of the Company/Organization
Aditya Singh	Priemer software development (Dominus Labs LLC)
Khushi Kapoor	Microsoft
Ayushya Nirwan	Sinch India
Rupender Singh	Unacademy
Rahul Singh	Karza
Krishanu Bhattacharjee, Praveen Anand	CVENT
Mehir Gupta, Subhadeep Bose Roy, Pranav Gupta, Manav, Anubhav Awasthi, Ms Lucky Katiyar	Upgrad
Srishti Singh, Priyal Rathore, Akshat Arora, Umer Farooq, Krishna Sai raj, Sri Anmol Sharma, Shivam Mishra	Intellipaat Software
Aayush,Upadhayay	Matus Business Ventures Pvt. Ltd
Amit Attry, Subhash Arun,Dwivedi	Sinplay
Vikrant Kumar, Paritosh	Hashedin
Amit Kumar, Arya Vashisht, Anjali Singh, Md Saif Ali, Dixit Rathi, Shashank Sharma, Saubhagya Sharma, Khushi Sharma, Agrima Yadav, Muheed Muzamil, Rupender Singh, Kumari Shivani Singh, Siddharth Gautam, Ayush Maurya,	mphrx
Soni Jain, Amit Kumar, Vimanshu, Rajpurohit, Anjali Singh, Khushi Gupta, Shubham Gupta, Akankshit Gahlout, Saahil,Kumar Singh, Snigdha Kashyap	Rapipay
Kumari Shivani Singh , Sanskar Jain, Kartikeya, Kunal Sagar, Pranav Kumar, Devendra Singh, Nikhil Gupta, Shashank Gupta, Srishti Singh, Priyal Rathore, Priyanshi Verma, Nafees Ahmad, Ankita Maiti, Rajsi Saxena, Vedangi Agarwal, Paritosh	Accenture
Aish Aggarwal, Amit Kumar Thakur, Abhinuv Tyagi, Kartikeya, Arthat Arora, Vishal Sachan, Suryansh Saxena, Uttam Goel, Rahul Kumar, Shaurya Tripathi, Maddula Ram Nath, Kevin Sabu,Harsh Gupta, Kumar Anurag, Aprajita Singh, Yashika Vashisht, Shubham Choudhary, Saahil Kumar Singh, Snigdha Kashyap, Tanishka Prasad, Abhishek Sharma, Riya Paul, Shivam Sharma, Yeddula Harshavardhan Reddy	Wipro
Praveen Anand, Sukriti,Sachan, Deepak Kumar, Shubham Priyadershi, Arthat Arora, Kunal Sagar, Shashank Gupta, Prashant Sharma, Ayush Anand, YashVardhan Singh, Akhil Sibi, Ankit Kumar Pandey, Yashika Vashisht, Snigdha Kashyap, Naman Ambastha, Abhishek Kumar, Aniket Kulshreshtha, Chiranjeev Malhotra, Paritosh, Krishanu Bhattacharjee	TCS

CHIEF EDITORIAL

Dr. Nitin Rakesh
Professor and HoD, Dept of CSE, SET

EDITORIAL TEAM MEMBERS

Ms. Rama M. Maliya, Assistant professor, CSE, SET
Mr. Kirti Kumar, (2nd Year, CSE)
Ms. Falguni Kishore, (3rd Year, CSE)