

CSE Department Activities in the Month of March, 1 to March 31, 2022

Journal Publications:

1. Lalatendu Behera, "A fault-tolerant time-triggered scheduling algorithm of mixed-criticality systems," *Computing*, vol. 104, pp. 577–599, 2022.
2. Shilpa Mahajan and Rajneesh Rani "Word Level Script Identification Using Convolutional Neural Network Enhancement for Scenic Images" *ACM Transactions on Asian and Low-Resource Language Information Processing*, vol. 21, no. 84, pp 1–29, 2022.
3. Rajandeep Kaur, Rajneesh Rani and Roop Pahuja, "Text-Dependent and Text-Independent Writer Identification Approaches: Challenges and Future Directions," *International Journal of Software Innovation (IJSI)*, vol. 10, no. 1, pp. 1-23, 2022.
4. Monia, Renu Dhir, Nonita Sharma, "Land Use Land Cover classification of remote sensing images based on the Deep Learning approaches: A statistical analysis and review, *Arabian Journal of Geoscience*, 2022.
5. Neha Rani and D K Gupta, "Performance-Based Analysis of Classification Techniques in Breast Cancer Screening – A Review, *International Journal of Research in Engineering, Science and Management*, vol. 5, no. 2, pp. 130–135, 2022.

Conference Publications:

1. Tanav Aggarwal, Nonita Sharma, "Gunshot Detection and Classification Using a Convolution-GRU Based Approach" *ETTIS-2022 International Conference*, Springer (Best Paper Award)
2. Hirdesh Varsheny and Avtar Singh, "A Machine Learning based Prediction Model for Fetal Health Assessment", *7th International Conference on emerging applications of information technology*, 2022.
3. Neha Gautam, Nisha Chaurasia and Kunwar Pal, *Digital Image Processing Application in Agriculture (Pest Detection) – A Review*, *IHIC 2022*.

Book Chapters

1. Lone, F. R., Verma, H. K., & Sharma, K. P., "Security Vulnerabilities of Cyber-physical Systems: Autonomous Vehicles Perspective," in *Cyber-Physical Systems: A Comprehensive Guide*, 2022.
2. Singh, V., Sharma, K. P., & Verma, H. K., "UAV-Based Cyber-Physical Systems: Concepts, Applications, and Issues," in *Cyber-Physical Systems: A Comprehensive Guide*, 2022.

Expert Talk:

1. Dr K P Sharma has delivered five lectures in two weeks' short-term course on "Python Programming: Basics to Advance" conducted by CCE NIT Jalandhar during 07 – 19 March 2022.
2. Dr Avtar Singh has delivered an expert talk on the topic "Emerging Trends in Computer Science and IT" at Lovely Professional University, Punjab, India, held on 14 March 2022.

Books:

1. Nonita Sharma, Lalit K Awasthi, Monika Mangla, K P Sharma, Rohit Kumar, Cyber Physical Systems – A comprehensive Guide. Taylor and Francis, 2022 (Edited).

Patent:

1. Dr Nirvikar S Katiyar, Dr Manish Kumar, Dr K P Sharma, Dr Ajeet K Singh & Dr Istiyaq A., Published a Patents on “Method for Robotics for Medical Professionals during Pandemic” with Ref No 202211000558 on 21/03/2022

Industrial Expert Talk Organized:

1. Ms. Ankita, SDE-2, Microsoft, (Alumnus) has delivered an expert talk on "Industry Trends and Career Opportunities", on 8th March 2022.
2. Ms. Manisha Gupta, Data Scientist-II, HP inc, (Alumnus) has delivered an expert talk on "Application of Data Science in Industry", on 11th March 2022.
3. Ms. Mahima, Manager-IT Solutions, Maruti Suzuki India Ltd, (Alumnus) has delivered an expert talk on "Industrial Practices and Conduct for Graduates", on 22nd March 2022.
4. Mr. Sanyam Chopra, Software Engineer in Infoedge Industries Pvt. Ltd, (Alumnus) has delivered an expert talk on "Maintaining WorkLife Balance in Professional Environment", on 25th March 2022.

PhD Defence:

1. Ms. Pooja Sharma, Research Scholar of Prof. A L Sangal has defended her final Ph.D. Viva Voce Examination on “Approaches to evaluate and measure software process improvement in software SMES” on 4th March., 2022.

Course Organised:

1. Dr Prashant Kumar has coordinated an Online STC on "Python Programming: Basic to Advance" from 7th March - 18th March 2022.

Outreach Activities:

1. Prof A L Sangal has attended the Comprehensive Examination of Ms Minakshi Shastri on 26 March 2022 at IIIT Una H.P.

Faculty Development Programme Attended:

1. Mr. D K Gupta has completed a One Week Online Faculty Development Programme on “Artificial Intelligence for IoT Services in Cloud: Techniques & Applications” organized by the Department of Information Technology, NIT Jalandhar from 28th Feb - 4th March, 2022.

2. Dr Aruna Malik has completed One Week Online Faculty Development Programme on “Artificial Intelligence for IoT Services in Cloud: Techniques & Applications” organized by the Department of Information Technology, NIT Jalandhar from 28th Feb - 4th March, 2022.
3. Mr Rahul Agarwal has completed One Week Online Faculty Development Programme on “Artificial Intelligence for IoT Services in Cloud: Techniques & Applications” organized by the Department of Information Technology, NIT Jalandhar from 28th Feb - 4th March, 2022.
4. Dr Samayveer Singh has completed One Week Online Faculty Development Programme on “Artificial Intelligence for IoT Services in Cloud: Techniques & Applications” organized by the Department of Information Technology, NIT Jalandhar from 28th Feb - 4th March, 2022.

Other works:

1. Dr Geeta Sikka and Dr Samayveer Singh have organized Internal Hackathon (Hack@NITJ'22) for shortlisting the teams for Smart India Hackathon (SIH'22) on 29 March 2022.
2. Dr Amritpal Singh attended Hackathon (Hack@NITJ'22) as an expert.
3. Dr Jagdeep Kaur has interacted with the Sarpanch of the village "Nussi" and a team from Punjab State Council for Science & Technology, Chandigarh under the Project of "Setting up Science Technology & Innovation cell at Jalandhar Cluster " sponsored by PSCST Chandigarh and DST, GOI.