

Research Activities: 2022– 2023

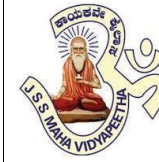
Sl. No.	DATE	EVENT ACTIVITY DETAILS
1	19th April, 2022 to 25th April 2022	The Department of Civil Engineering conducted the programme on Application of the softwares in Civil Engineering. In this Programme brief description of STAAD. Pro session was delivered to students as well as faculties. Also, this programme includes modelling of different types of beams and frames, application of different types of loadings and IS codes, analysis of structures required in designing different structural components. MXROAD software also discussed which is a roadway design software that provides a comprehensive modeling environment to support design highway designs from concept through construction.
2	22nd November, 2022	Inauguration of Green Energy club and Expert lecture on Research opportunities on Green Energy was conducted by Department of Electrical and Electronics Engineering on 22.11.2023 in ABIII-113. Chief Guest for the function was Sri. Subrahmaniyam Pulipaka, CEO NSEFI.
3	20th February, 2022	An expert lecture on Sustainability goals was delivered by Mr. Kishore Bhuvanaragha Subramanian, Vice President SEPA Venue AB III 204.
4	22nd August, 2022	JSSATEN - CARES Centre for Excellence in Solar Photovoltaic Systems & JSSATEN-Industry 5.0 Convention was inaugurated in the Department of EEE on 22.08.2022 in ABIII, 210. The chief guest for the event was Mrs. Suman Sharma, IRS, Managing Director of Solar Energy corporation of India (SECI). Industry partner Dr. Raghuram Arjunan, Co-founder and Director, CARES renewable Pvt. Ltd. Mrs. Suman Sharma in her speech congratulated the college and EEE department in the initiative towards clean energy and stressed about the importance of clean energy in the society she also addressed about the current situation of the climate change and global warming. She told that JSSATE, Noida has started a very good initiative where future of the tomorrow i.e. students can be trained with state-of-the-art technology.



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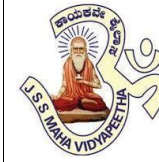
5	21st December, 2022 to 23rd December, 2022	Department of ECE conducted a talk on Artificial Intelligence. The objective of this Artificial Intelligence (AI) session is to explore and understand AI concepts, applications, and ethical considerations, fostering knowledge and awareness for effective integration and responsible development.
6	02nd January, 2023 to 13th January, 2023	Department of ECE conducted an online session on the integration of Wireless Sensor Networks (WSN) and Internet of Things (IoT) for agriculture, objectives include understanding concepts, applications, and practical skills for smart farming technology implementation.
7	13th May, 2023	Department of ECE conducted hands-on MATLAB session for faculty and staff aims to: Introduce MATLAB fundamentals, scripting, and programming. Explore data visualization techniques and MATLAB applications in research and teaching. Cover basics of Simulink for modeling. Familiarize participants with relevant toolboxes. Facilitate hands-on exercises to enhance practical skills, promoting effective utilization in academic and research endeavours.
8	22nd July, 2023	Department of ECE conducted hands-on MATLAB session for faculty and staff aims to: Introduce MATLAB fundamentals, scripting, and programming. Explore data visualization techniques and MATLAB applications in research and teaching. Cover basics of Simulink for modeling. Familiarize participants with relevant toolboxes. Facilitate hands-on exercises to enhance practical skills, promoting effective utilization in academic and research endeavours.
9	6th October, 2022	Department of CSE conducted a Lecture on Women in Stem Lecture Series "Data Analytics for Large Scale Graph. The Session was taken by Dr. Adwitiya Sinha, Associate Professor, Jaypee Institute of Information Technology, Noida" The objectives of this session were: To develop an understanding on main concepts for exploring large graphs. To provide knowledge regarding solutions to cope with a large amount of graph data (filtering neighbours randomly or make use of node and edge attributes). To perceive advantages, drawbacks, and particularities of graph structures (hubs, small world). To provide tips for visualization of a network (Gephi)."
10	25th November, 2022	Department of CSE conducted a Lecture on Women in Stem Lecture Series "Hands on Session on AI using Anaconda". The Session was taken by Dr. Pooja Gupta, HOD (CST), Maharaja Agrasen Institute of Technology, Delhi and Ms. Ruchi Goel, Assistant Professor Maharaja Agrasen Institute of Technology, Delhi the objectives of this session were: To accustom students and faculties with a fully contained AI and machine learning platform that enables easy development, deployment, and governance using a cloud native architecture to support. To make students and



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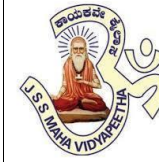
		faculties capable of using Anaconda Ecosystem for applying key skills to statistical analysis, machine learning, and visualization.
11	06th May, 2023	Department of CSE conducted a Technical Training on "Basic Networking with Windows & Linux OS Installation" to give fundamental knowledge on essential networking basics, including switches, routers, and wireless access points. 2. To learn how to partition a hard drive, format a hard drive, and install an operating system
12	22nd June, 2023	Department of CSE conducted hands-on MATLAB session for faculty and staff aims to: Introduce MATLAB fundamentals, scripting, and programming. Explore data visualization techniques and MATLAB applications in research and teaching. Cover basics of Simulink for modeling. Familiarize participants with relevant toolboxes. Facilitate hands-on exercises to enhance practical skills, promoting effective utilization in academic and research endeavours.
13	28th September, 2022 to 29th September, 2022	Department of CSE conducted NCRICT-2022: National Conference on Recent Innovations in Computing Technologies. The objective of the National Conference on Recent Innovations in Computing Technologies was to provide a platform for scholars, researchers, and industry professionals to share and discuss the latest advancements in computing. The conference aimed to showcase innovative technologies, methodologies, and solutions that have emerged in the field. Through presentations and discussions, participants delved into the past achievements, challenges, and breakthroughs in computing. The event fostered collaboration, knowledge exchange, and networking among participants, contributing to the dissemination of valuable insights and promoting a collective understanding of the evolving landscape of computing technologies. Overall, the conference played a pivotal role in shaping the discourse on recent innovations in the field.
14	17th March, 2023	Department of EE conducted a session on Indian Power Sector Emerging Trends, Challenges and Opportunities. The session was conducted by Mr. Anuj Kumar, who is associated with the National Load Despatch Centre, GRID-INDIA (erstwhile POSOCO), a Govt. of India Enterprise under the Ministry of Power.
15	22nd September, 2022	Department of IT conducted a session by "Mr. Anant Jain, Software Engineer at Dew Solutions" was invited as expert. The session was attended by all students of all departments along with faculty members of the Department. The resource person talk was highly motivational for young students where he talked about how to manage their valuable time effectively during their engineering days. At the end, the Query session was open for the participants where all the students actively participated and raised various questions regarding career opportunities after graduation.



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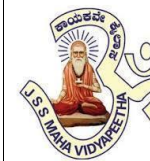
16	12th July, 2022	Department of IT conducted a session by Prof. (Dr.) Amlan Chakrabarti is presently Professor and Director of A. K. Choudhury School of Information Technology (AKCSIT)". The session was attended by Faculty members of all departments along with Student of the Departments. The resource person talk was highly motivational for young students where he talked about how to manage their valuable time effectively during their engineering days. At the end, the Query session was open for the participants where all the students actively participated and raised various questions about how to get a chance in to understand technique involved in video analytics and its industrial applications. speakers answered all the questions with good real-life examples.
17	22nd July, 2023	Department of Chemistry, conducted a session on "Biohydrogen: A Carbon Neutral Fuel" by Dr. Dheeraj Rathore, Assistant Professor, School of Environment and Sustainable Development, Central University of Gujarat.
18	20th May, 2023	On 20th May 2023, a colourful and memorable final year (2019-23 Batch) project & poster presentation was organized in the EEE department at JSSATEN. The event was a whole day long and many professors & students from other departments took part. The grand show commenced by displaying 15 groups project poster presentations to showcase student's talent. The Chief Guest, Mr. Kaustubh Co-Founder; CTO Ellipsol systems Pvt. Ltd
19	3rd March, 2023	Department of ME conducted a talk on Industry 4.0 and Time Management. The speaker of the event was Mr. Prateek Kumar (Manager, BHEL Noida) and Mrs. Sumana Das (Manager, BHEL Noida). The goal of Industry 4.0 is to introduce automated decision-making, interconnected machinery, data analytics, and more to increase productivity across the value chain and enable the efficient production of goods.
20	17th April, 2023	Department of ME conducted a talk on Vibration Isolation. The speaker of the event was Mr. Abhimanyu Singh, Application Engineer, Resistoflex Pvt. Ltd.). The objective of the lecture was to create awareness regarding vibration isolation systems and their applications in various industries. Further, speaker also well demonstrated the use of theoretical concept of vibration in various advanced equipment's used in different conditions to minimize the impact of vibration.
21	11th November, 2022 to 12th November, 2022	Department of ME conducted an FDP on CNC Training Expert trainer for the program was Mr. Praveen Kumar, Engineer MTAB, Bangalore Faculty development program was organized to train faculties in programming and operation of Computer Numerical Control (CNC) machines, to provide a platform for the fabrication of mechanical components. Skills developed by the faculties can be utilized to train the students for skill development/project work.



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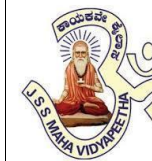
22	23rd September, 2022 to 24th September, 2022	Department of ME conducted two days FDP Program on “Two Day Hands-on-Training on Solid Works-2022. Expert for the program was Mr. Rajat Bhiman, Solid Works Trainer from Gurugram. This Faculty Development Program was mainly focused on part design, assembly, and modelling of components. After successful completion of the training, the faculty can use the skills learned in teaching subjects related to design as well as in projects
23	15th May, 2022	Department of ME conducted a talk on Aerodynamic Development of Passenger Cars. The speaker of the event was Mr. Rohan, (Sr. Manager, Gurgaon Plant. Maruti Suzuki India Limited, Old Palam Gurgaon Road, Gurugram, Haryana. The objective of the talk was to understand aerodynamics of passenger cars, reducing drag and wind noise, minimizing noise emission, and preventing undesired lift forces and to understand other causes of aerodynamic instability at high speeds.
24	15th May, 2022	Online Lecture on Beyond petroleum -the strategies for future energy need was conducted by Department of ME. It was conducted by Center for Advanced Studies & Research in Automotive Engineering, DTU; IMECHE in association with JSSATE, Noida Chapter for the students. The speaker of the event was Dr. Ftwi Yohaness Hagos (Sultan Qaboos University, Oman), Mr. Nikunj Sharma (University of Quebec, Canada) and Mr. Abhishek Goyal (Queen’s University, Canada). The talk was focused on hydrogen energy, bioenergy using microalgae and printable solar cell.
25	11th April, 2022	It was conducted by the University of South Florida, Tampa, USA in association with JSSATE, Noida.
26	13th February, 2023	A. Department of Electrical and Electronics Engineering conducted an Awareness Session on NASSCOM portal with FutureSkills Prime-NASSCOM on 13.02.2023 from 12.00 pm to 1.00 pm in Online Mode by Technical Resource person from FutureSkills Prime-NASSCOM. The resource person for this program was Ms. URMI. The objective of the event was to deliver talk on awareness that how to use NASSCOM portal. As a part of the curriculum to impart technical skills and build industry ready engineers, Abdul Kalam Technical University (AKTU) has introduced dedicated course for Internship in all academic years of B. Tech programme. This initiative of skill development programme will benefit our students to take up added on skills in different specialized areas from second year to final year as a part of their curriculum.



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27	6th December, 2022 to 17th December, 2022	Certification course on solar PV system and design was conducted by Department of EEE. The duration of the course was two weeks from 06.12.2022 to 17.12.2022. This course was conducted with the help of CARES renewable Pvt. Ltd and CoE of JSS-CARES Center for excellence in solar photovoltaic system. The objective of the course was to train students in solar energy for job opportunities and higher studies.
28	25th November, 2022	Department of Electrical and Electronics Engineering, conducted an Informative session about "Digital Health" by Mr. Koustav Chatterjee (Head of Digital Health, NASSCOM) on 29th November, 2022 from 02:30 PM-04:30PM venue AB-III, Room No. 213. The purpose of this session was to share new potential and trends of using information and telecommunication technologies to improve healthcare delivery. This was result in the overall benefit of the students and faculty members from all domains of engineering, MCA, medical, management and pharmacy in terms of knowledge gain in this niche domain.