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Editorial Board

- Prof. Ghanshyam Singh - Chairman
- Dr. K.N. Gupta
- Dr. Yashwant Kumar Modi
- Dr. Kamini Bhasin
- Mr. Shishir Thakur

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VISIT OF DIGNITARIES

- Prof. S.C. Saxena, Hon'ble Pro Chancellor, IIIT Noida visited the campus and addressed the faculty members on June 13, 2022.
- Prof. B. R. Mehta, Director Innovation Research & Development (DIRD), IIIT Noida visited the campus and interacted with faculty members on May 17, 2022.
- Shri Mohan Yadav ji, Hon'ble Education Minister, Madhya Pradesh visited the campus on February 02, 2022.

DAYS OF NATIONAL IMPORTANCE CELEBRATION

- International Yoga Day was celebrated in physical and online mode on June 21, 2022. Large number of students, faculty and staff members participated in the event.
- World Environment Day was celebrated on June 05, 2022. Students made a small video to showcase the green initiatives taken by the University.
- International Women's Day was celebrated on March 08, 2022. On this occasion officers from MP Police addressed the students on safety & security of women.

INTERACTION BY HONOURABLE VICE CHANCELLOR

- Prof. J. S. P. Rai, Hon'ble Vice Chancellor of the University interacted with faculty and staff members of the University on June 03, February 18 and February 14, 2022.

IMPORTANT ACADEMIC EVENTS

- One-week workshop on "NAAC Assessment and Accreditation (A&A) Process" was organized by IQAC, JUET Guna during July 25-29, 2022.
- 9th IQAC meeting is held on May 07, 2022 at JUET Guna.
- MOU between JUET and MPCST was signed on April 04, 2022 to enhance the research activities.
- A live screening of "Pariksha Pe Charcha" by Honorable Prime Minister, Shri Narendra Modi Ji was arranged for the University students, faculty and staff members on April 01, 2022.
- MOU between JUET and University of Lucknow was signed on March 04, 2022 for collaboration of research and academic activities.
- Ms Anamika Singh, alumna of 2010 batch (CHE) visited the campus and interacted with students on "Studying & making a career abroad" on March 22, 2022.
- Mr. Jitendra Kumar Choure, Asstt. Controller of Patent and Design, Ministry of Commerce and Industry, (Office of the Controller General of Patents, Design and Trade Marks, Mumbai) visited JUET to conduct one-day workshop for faculty members on February 26, 2022.



**Visit of Shri Mohan
Yadav, Hon'ble
Education Minister,
Madhya Pradesh on
February 02, 2022**



**MoU between JUET and
MPCST on April 04, 2022**

- Dr. Vikas Shinde, Principal Scientist, MP Council of Science & Technology interacted with faculty and staff members in JUET Campus on February 26, 2022.
- Dr. Mamta Rani Agarwal, Advisor, AICTE New Delhi delivered a lecture (online) on Innovation and Creativity for Faculty and Staff members on February 16, 2022.

ESTABLISHMENT OF NEW LABORATORIES

- Multidisciplinary Laboratory and Centre of Excellence were established on February 17, 2022.

SCIENCE WEEK CELEBRATION

- In fond memory of great scientist Sir Chandra Shekhar Venkata Raman, the Centre of excellence for Renewable Energy, JUET in association with MPCST, Bhopal celebrated National Science Week on theme "Azadi ka Amrit Mahotsav" during February 22-28, 2022. Various technical events, debates, quizzes and seminars have been organized in online and offline modes throughout the week. The students, faculty members and alumni of the University participated in these events. The programme was coordinated by Dr. Dhananjay R. Mishra, Assistant Professor (SG), Department of Mechanical Engineering.

OUTREACH AND EXTENSION ACTIVITIES

- Various outreach and extension activities such as E-waste collection, Gender sensitization, Health and hygiene, Awareness creation for right to Vote etc. were carried out by the Students in campus as well as in adopted villages under Unnat Bharat Abhiyan as social responsibility of the University. Besides, students also actively participated in various events on the occasion of World Environmental Day. About 50 trees are planted inside campus on July 8, 2022 to make the Green Campus even more Greener.

VISIT OF SCHOOL CHILDREN

- Students of class X to XII of a coaching centre of Kumbhraj town visited the campus and lab facilities on March 14, 2022. Such efforts can help students to choose their future career path.

ALUMNI ACHIEVEMENTS

- Mr. Dakshesh Sharma, alumnus of B.Tech ECE, batch 2013-17 is promoted to Lead IT Security Engineer at Keysight Technologies, Gurugram.
- Mr. Ajay Mishra, alumnus of B.Tech ECE, batch 2013-17 is promoted to Assistant Manager at Airports Authority of India, Mumbai.
- Mr. Ishaan Mishra, alumnus of B.Tech ECE, batch 2013-17 is promoted to Consultant at KPMG India, Gurugram.
- Mr. Samarth Srivastava, alumnus of B.Tech ECE, batch 2013-17 is promoted to Technology Analyst at Infosys.
- Ms. Surbhi Agarwal, alumna of B.Tech ECE, batch 2012-16 is promoted to Senior Software Engineer at Elektrobit, Noida.
- Mr. Siddharth Tripathi, alumnus of B.Tech ECE, batch 2012-16 qualified JRF-NET examination.
- Mr. Navinder Singh Puri, alumnus of B.Tech ECE, batch 2011-15 is promoted to Supervisor Professional Services at Power School, Bengaluru.
- Mr. Kumar Shiva, alumnus of B.Tech ECE, batch 2010-14 is promoted to Senior Quality Engineer at Forsys Inc, Hyderabad.
- Mr. Rounak Chawla alumnus of B.Tech. MEC, batch 2010-14 has joined Reliance Retail, Navi Mumbai as Manager in the month of July, 2022.
- Mr. Dilpreet Tuteja, alumnus of B.Tech ECE, batch 2010-14 is promoted as Senior Consultant Specialist at HSBC, Pune.
- Mr. Akshay Jalchhari alumnus of B.Tech. MEC, batch 2010-14 has joined JMC Projects India Ltd. as Deputy Manager in the month of March, 2022.
- Mr. Vaibhav Krishna Kumar alumnus of B.Tech. MEC, batch 2009-13 has joined Sprinkl as Customer Success Manager in the month of May, 2022.
- Mr. Rounak Kumar alumnus of B.Tech. MEC, batch 2009-13 has joined Bank of America as Global Procurement in the month of March, 2022.
- Mr. Akshay Garg alumnus of B.Tech. MEC, batch 2009-13 has joined WSP as Mechanical Engineer (Sustainability) in the month of March, 2022.



**Dr. Nileshkumar Patel
awarded for becoming
MoE and AICTE's
Innovation Ambassador.**



**Dr. Kunj Bihari Meena
awarded for becoming
MoE and AICTE's
Innovation Ambassador.**

- Mr. Deep Harsh Gupta, alumnus of B.Tech ECE, batch 2008-12 is promoted to Senior Software Test Engineer - L1 at Kongsberg Digital, Bengaluru.
- Ms. Shelly Agarwal, alumna of B.Tech ECE, batch 2008-12 is promoted to Sr. Data Scientist at Grainger, Greater Chicago Area.
- Mr. Ayush Jain, alumnus of B.Tech ECE, batch 2008-12 joined as Assistant Vice President at Deutsche Bank, Parsippany, New Jersey, United States.
- Mr. Harshit Agarwal, alumnus of B.Tech ECE, batch 2007-11 joined as Senior Developer at Saxo Bank, Gurugram.

AWARDS/HONOURS/RECOGNITION

- Dr. Ravi Kumar (ECE), Dr. Nitin Kumar Samaiya (CE), Dr. Neelesh Kumar Jain (CSE), Dr. Nileshkumar Patel (CSE), Dr. Kunj Bihari Meena (CSE), Dr. Pankaj Dumka (MEC), Dr. Salil Modak (Physics), Dr. Sandeep Srivastava (HSS), Dr. Kamini Bhasin (HSS) and Mrs. Tamanna Agarwal (HSS) became MoE and AICTE's Innovation Ambassadors.
- Dr. Kedari Lal Dhaker (MEC) received Silver Medals on completion of NPTEL courses titled "Python for Data Science" and "Data Science for Engineers".
- Dr. Narendra Singh has been elected as Editorial board member for Science Journal of Circuits, Systems and Signal Processing on June 14, 2022.

ACHIEVEMENTS (DEPARTMENT WISE)

CHEMICAL ENGINEERING

A: Publication in Journal

- Amit.K. Thakur, Rahul Kumar, V.K. Vipin Kumar, Amit Kumar, Gajendra Kumar Gaurav and Kaushal Naresh Gupta, "A critical review on thermodynamic and hydrodynamic modeling and simulation of liquid antisolvent crystallization of pharmaceutical compounds", Journal of Molecular Liquids, DOI: 10.1016/j.molliq.2022.119663, June 2022.

CIVIL ENGINEERING

A: Publications in Journals

- Garima Rawat, Sumit Gandhi and Yogesh Iyer Murthy, "Strength and rheological aspects of concrete containing nano-titanium dioxide". Asian Journal of Civil Engineering. DOI: 10.1007/s42107-022-00476-2, July 2022.
- Abhishek Verma, V.Sarath Babu and S. Arunachalam, "Performance evaluation of concrete using treated recycled aggregates modified with mineral admixtures-influence of processings". European Journal of Environmental and Civil Engineering. DOI: 10.1080/19648189.2022.2070285, June 2022.
- Abhishek Verma, V.Sarath Babu and S. Arunachalam, "Performance evaluation of concrete using treated recycled aggregates modified with mineral admixtures-influence of processings". European Journal of Environmental and Civil Engineering. DOI: 10.1080/19648189.2022.2070285, June 2022.
- Abhishek Verma, V.Sarath Babu and S. Arunachalam, "Influence of acetic acid soaking and mechanical grinding treatment on the properties of treated recycled aggregate concrete". Journal of Material Cycles and Waste Management, DOI: doi.org/10.1007/s10163-022-01360-6, March 2022.
- Abhishek Verma, V.Sarath Babu and S. Arunachalam, "Influence of modified two-stage mixing approaches on recycled aggregate treated with a hybrid method of treatment". Australian Journal of Structural Engineering, DOI: 10.1080/13287982.2022.2048479, March 2022.

B: Conference/Seminar/Webinar/Workshop/FDP participated

- All faculties of the Department attended workshop on NAAC Accreditation Process, July 25-29, 2022, conducted by IQAC, JUET Guna.
- Dr. Nitin Kumar Samaiya completed foundation level training of Innovation Ambassador conducted in online mode by MoE's innovation cell and AICTE on July 16, 2022.
- Dr. Dharmendra Kumar Shukla attended webinar on 'Advances in the Use of Cement in Precast Concrete Industry', organized by Ultratech Cement Limited, on July 10, 2022.



**Awareness programme
on International
Women's Day
on March 8, 2022**

- Dr. Sumit Gandhi and Dr. Dharmendra Kumar Shukla attended IP Awareness/Training program under National Intellectual Property Awareness Mission (NIPAM), Organized jointly by Intellectual Property Office and Civil Engineering Department NITTTR, Chandigarh on June 10, 2022.
- Dr. Sumit Gandhi and Dr. Yogesh Iyer Murthy attended the International conference on Advancements in Interdisciplinary Research (AIR-2022) conducted by MNNIT Allahabad on May 06-07, 2022.
- Dr. Yogesh Iyer Murthy presented a paper titled, "Crystallographic Study of Mg-Ca-Nd system at 400°C", AIR-2022 International Conference on Advancements in Interdisciplinary Research, held on May 6-7, 2022 at MNNIT Allahabad, Prayagraj, India.
- Mr. Abhishek Verma and Mr. S.N. Yadav successfully completed the training on Microsoft Azure AI Fundamentals on March 17, 2022.
- Dr. Sumit Gandhi attended one-week AICTE Recognized Faculty Development Programme on 'Water Resource Management' on March 07-11, 2022.
- Dr. Sumit Gandhi attended one-week Faculty Development Programme on 'Recent and Emerging Trends in Structural Engineering', organized by Department of Civil Engineering, Bansal Institute of Engineering and Technology, Lucknow during February 28 – March 05, 2022.
- Dr. Dharmendra Kumar Shukla attended webinar on 'Bridges with External Pre-stressing: Future of Bridge Construction in India', organized by UltraTech Cement Limited on Feb 26, 2022.
- Dr. Sumit Gandhi and Mr. Shri Narayan Yadav attended five-day FDP on "Materials for Sustainability of Transportation Infrastructure (MSTI-2022)", organized by the Vivekananda Institute of Technology, Jaipur during February 2-5, 2022.
- Dr. Sumit Gandhi attended First Webinar Series on 'Groundwater Level Monitoring' organized by CED, UVCE, Bangalore University in association with CGWB, South-western Region, Bangalore on Feb 2, 2022.

C: Conference/Seminar/Webinar/Workshop Organized

- Department organized an international webinar on "Soft skills and tools for Civil Engineers", on February 26, 2022. The speaker of the webinar was Mr. Rajat Shukla, alumnus of B.Tech. CE 2010-14, currently working in Dubai. The webinar was attended by 271 participants from various parts of the globe such as, United States, Philippines, Algeria, Bangladesh and Nigeria.

D: PhD Awarded

- Ph.D. degree has been awarded to Mrs. Nancy Soni by the University for her thesis entitled, "Utilization of recycled fines obtained from construction and demolition waste in concrete and mortar", under the supervision of Dr. D. K. Shukla in June 2022.
- Ph.D. degree has been awarded to Mr. Abhishek Verma by the University for his thesis entitled "A study on the influence of pre-treated recycled aggregate and modified two-stage mixing approaches on the performance of standard grade concrete", under the supervision of Dr. V.S.Babu and Prof. S. Arunachalam in June 2022.

E: Patent/Copyright

- Mr. Ravindra Kumar Goliya published a patent on the design and development of light weight self compacting concrete mixture and their impact on strength of buildings on July 29, 2022.

F: Student Activities

- "TECH-CHARADES" was conducted by CEF on April 15, 2022 with nearly 70 participants.
- On the occasion of National Science Week, the Civil Engineering Forum (CEF) organized an event "TRIVIA". It was a Quiz competition on General Science with visuals held on Feb 24, 2022. Nearly 75 participants attended this event.

G: Students Achievements

- Mr. Pratyush.Singh (181D006) qualified for GATE-2022.



**International Yoga Day
celebration on June 21,
2022**



**Farewell of passing out
batch 2018-2022**



**Broadcast of Pariksha pe
Charcha Session- 2022**

COMPUTER SCIENCE AND ENGINEERING

A: Publication in Journals

- Aneesh Kumar Mishra, Ravindra Kumar Singh, and Neelesh Kumar Jain "A novel intuitionistic fuzzy rough set model and its application to enhance umami peptide prediction" in Journal of Intelligent & Fuzzy Systems, Vol. 43, No. 3, pp. 3741-3755, July 2022.
- K. B. Meena and V. Tyagi, "Blockchain Technology: Past, Present, and Future", Indian Science Cruiser, Vol. 36, No. 2, pp. 52-59, May 2022.
- Lal Pratap Verma, Varun Kumar Sharma, Mahesh Kumar, and Aniket Mahanti "An adaptive multi-path data transfer approach for MP-TCP" in Wireless Networks, DOI: <https://doi.org/10.1007/s11276-022-02958-2>, April 2022.
- Swapnil Sonar, Ratnesh Litoriya, and Prateek Pandey "Integrating Blockchain Technology with IoT and ML to Avoid Road Accidents Caused by Drunk Driving" in Wireless Personal Communications, Vol. 125, pp. 3001-3018, April, 2022.
- Shivendra Dubeya, Mahesh Kumar, and Dinesh Kumar Verma "Machine Learning Approaches to Deal with the COVID-19: Comprehensive Study", ECS Transactions, Vol. 107, No. 1, pp. 17815-17828, 2022.
- Lal Pratap Verma, Varun Kumar Sharma, Mahesh Kumar, Dimitris Kanellopoulos and Aniket Mahanti, "DB-CMT: A New Concurrent Multi-path Stream Control Transport Protocol" Journal of Network and Systems Management Vol. 30, No. 4, pp. 67-1-63, Springer Nature.

B: Publication of Book/Chapter

- Mayank Singh, Vipin Tyagi, P. K. Gupta, Jan Flusser, Tuncer Ören "Advances in Computing and Data Sciences: Part 1", in "6th International Conference Advances in Computing and Data Sciences (ICACDS 2022)", Kurnool, India, April 22-23, 2022, ISBN 978-3-031-12638-3.
- Mayank Singh, Vipin Tyagi, P. K. Gupta, Jan Flusser, Tuncer Ören, "Advances in Computing and Data Sciences: Part 2", in "6th International Conference Advances in Computing and Data Sciences (ICACDS 2022)", Kurnool, India, April 22-23, 2022, ISBN 978-3-031-12641-3.
- Shivam Pandey, Shivank Singh & Vipin Tyagi, "Meta-learning for Few-Shot Insect Pest Detection in Rice Crop", in "6th International Conference Advances in Computing and Data Sciences (ICACDS 2022)", Kurnool, India, April 22-23, 2022, ISBN 978-3-031-12641-3.
- Jyotiraditya Singh Tomar, Parishkrat Mishra, Akash Gupta, Kunj Bihari Meena & Vipin Tyagi, "A Proposed Model for Precision Agriculture" in "6th International Conference Advances in Computing and Data Sciences (ICACDS 2022)", Kurnool, India, April 22-23, 2022, ISBN 978-3-031-12641-3.
- Anagha Vaidya, Vipin Tyagi & Sarika Sharma, "FRAMS: Facial Recognition Attendance Management System", in "6th International Conference Advances in Computing and Data Sciences (ICACDS 2022)", Kurnool, India, April 22-23 ISBN: 978-3-031-12638-3.

C: Conference/Seminar/Webinar/Workshop/FDP participated

- Dr. Kunj Bihari Meena, Dr. Ajay Kumar, Dr. Mahesh Kumar, Dr. Rahul Pachauri, Dr. Dinesh Kumar Verma, Dr. Nilesh R. Patel, Dr. Parth Sarthy Banerjee, Dr. Prateek Pande, Dr. Neelesh Jain, Mr. Gaurav Saxena, Mrs. Babita Tiwari, Mr. Navaljeet Singh Arora attended one-week workshop on "NAAC Assessment and Accreditation (A&A) Process" organized by JUET Guna, during July 25-29, 2022.
- Prof. Vipin Tyagi, Dr. Dinesh Kumar Verma, Dr. Kunj Bihari Meena, Dr. Neelesh Kumar Jain, Mrs. Babita Tiwari and Dr. Dinesh Kumar Verma attended "Impact Lecture Series 2022: Lecture 2" on July 15, 2022.
- Dr. Kunj Bihari Meena attended a two week FDP on "Recent Trends in Robotics" organized by IIT Roorkee, MNIT Jaipur, NIT Patna, and PDPM IITDM, Jabalpur on July 4-15, 2022.



Recruitment Drive for passing out batch 2018- 2022

- Dr. Nileshkumar Patel, Dr. Neelesh Jain, Dr. Kunj Bihari Meena completed Innovation Ambassador Foundation level training conducted in online mode by MoE's innovation cell and AICTE in July, 2022.
- Prof. Vipin Tyagi, Dr. Neelesh Kumar Jain, Dr. Kunj Bihari Meena and Mrs. Babita Tiwari attended "Impact Lecture Series 2022: Lecture 1" organized by JUET, Guna in association with Ministry Education's Innovation cell and AICTE on June 25, 2022.
- Dr. Rahul Pachauri and Mr. Gaurav Saxena attended webinar on "Electronic Design Guiding Principles" organized by Department of Electronics and Communication, JUET, Guna, on April 29, 2022.
- Dr. Neelesh Kumar Jain and Dr. Kunj Bihari Meena chaired the session "6th International Conference Advances in Computing and Data Sciences (ICACDS 2022)", Kurnool, India, on April 23, 2022.
- Dr. Mahesh Kumar attended online training on "IEEE Explore" organized by JUET, Guna on April 13, 2022.
- Dr. Nilesh R. Patel attended online course "Block Chain Basics" authorized by University at Buffalo, The State University of New York and offered through Coursera on April 12, 2022.
- Dr. Neelesh R. Patel, Dr. Amit Kumar, Dr. Ravindra Kumar Singh, Dr. Rahul Pachauri, Dr. Kunj Bihari Meena, Mr. Navaljeet Singh Arora attended training on "Microsoft Azure AI Fundamentals" during month of March, 2022.
- Dr. Ajay Kumar attended "Big Data Tools and Technologies" organized by ABES Engineering College Ghaziabad, during March 7-11, 2022.
- Dr. Kunj Bihari Meena attended Webinar on "Machine Learning Algorithms and Behaviour of Data" during March 4-7, 2022.
- Dr. Kunj Bihari Meena attended an online technical seminar on "Block chain Technology and its Applications" during March 4-5, 2022.
- Mr. Navaljeet Singh Arora attended FDP on "Machine Learning for Computer Vision" during Feb 21-March 4, 2022.
- Prof. Vipin Tyagi, Dr. Mahesh Kumar, Dr. Rahul Pachauri, Dr. Ravindra Kumar Singh, Dr. Dinesh Kumar Verma, Dr. Neelesh Jain, Dr. Amit Kumar, Dr. Kunj Bihari Meena, Mrs. Babita Tiwari, Mr. Gaurav Saxena, Mr. Navaljeet Singh Arora attended IPR Awareness/Training program under National Intellectual Property Awareness Mission organized at JUET, Guna Feb 26, 2022.
- Dr. Amit Kumar Srivastava attended ATAL Academy FDP on "Augmented Reality (AR) and Virtual Reality (VR)" organized by NIT, Nagaland during Feb 21-25, 2022.
- Dr. Amit Kumar Srivastava attended FDP on "Robotics" during Feb 14,-18, 2022.
- Dr. Kunj Bihari Meena attended a webinar on "Machine learning- simplified" organized by Bharati Vidyapeeth's Institute of Computer Applications and Management on Feb 12, 2022.
- Dr. Amit Kumar Srivastava attended FDP on "Robot Operating System (RoS)" during Feb 10-14, 2022.

D: Patent/Copyright

Following patents have been published:

- Prof. Vipin Tyagi: "Voice recognition method, system, and device based on the attention mechanism", July 2022, Application number: 202211041166.
- Dr. Dinesh Verma and Dr. Mahesh Kumar: "Deep learning based real time traffic signal switching system with emergency vehicle preemption", April 2022, Application number: 202211016553.
- Dr. Neelesh Kumar Jain, Dr. Nilesh Patel and Dr. Ajay Kumar: "An IoT based system for up gradation of agricultural industries using connected farms", Application Number: 202211038242.
- Dr. Neelesh Kumar Jain: "An IoT based water quality index prediction system and method thereof" July 2022, Application Number: 202211038087.



Musical Night (Raga) February 26, 2022



**Award of Honour
distribution to JUET
Innovation
Ambassadors**



**IPR Awareness Program
by Mr. Arpit Jain on
March 8, 2022**

E: Student's Activities/Achievements

- Kranti Jain has been selected in Google Student Developer Club in July 2022.
- Abhinav Ratan won prize in Spark Worlds Challenge Sponsored by Meta Platforms Inc. (Sponsor), July 2022.

ELECTRONICS AND COMMUNICATION ENGINEERING

A: Publication in Journals

- Ravi Kumar, Prabha R., kannan B., Nagalakshmi T.J., Sheshang Degadwala, "Auditory Model System (AMS) To Recognize Alzheimer's Diseases: Speech Signal Analysis", International Journal of Medical Engineering and Informatics, Inderscience, DOI:https://doi.org/10.1504/IJMEI.2022.10049260, July 2022.
- N P G Bhavani, Ravi Kumar, Bhawani sankar Panigrahi, Kishore Balasubramanian, B. Arunsundar, Zulkiflee Abdul Samad, Abha Singh, "Design and Implementation of IoT integrated Monitoring and Control System of Renewable Energy in Smart Grid for Sustainable Computing Network", Journal of Sustainable Computing: Informatics and Systems, Vol. 35, pp. 01-23 DOI:https://doi.org/10.1016/j.suscom.2022.100769, June 2022.
- Rishika Chauhan, Pankaj Dumka, Dhananjay R Mishra, "Experimental Evaluation and Development of Artificial Neural Network Model for the Solar Stills Augmented with the Permanent Magnet and Sandbag", Journal of Advanced Thermal Science Research, Vol. 9, pp. 9-23, June 2022.
- N. Arun Vignesh, Ravi Kumar, Rajarajan R., S. Kanithan, E. Sathish Kumar, Asisa Kumar Panigrahy, Selvakumar Periyasamy, "Silicon Wearable Body Area Antenna for Speech Enhanced IOT and Nano Medical Applications", Journal of Nonmaterial's, Article ID 2842861, Vol.2022, pp.1-9. DOI: https://doi.org/10.1155/2022/2842861, May 2022.
- Ravi Kumar, B. Aruna Devi, V. Sireesha, A. Kishore Reddy, I. Hariharan, E. Konguvel, N. A Vignesh, "Analysis and Design of Novel Doping Free Silicon Nanotube TFET with High-density Meshing Using ML for Sub Nanometre Technology Nodes", Silicon - Springer, Vol. 2022, pp. 01-08, DOI:https://doi.org/10.1007/s12633-022-01859-5, April 2022.
- Devesh Sharma, Ravi Kumar, Rajesh Kumar. Vishwakarma, "Four-port dual-band MIMO antenna for LTE and sub 6-GHz 5G applications", Journal of Engineering Research, DOI:https://doi.org/10.36909/jer.ICMET.17179, April 2022.
- S Kanithan, S Anthoniraj, P. Manikandan, T Ramaswamy, Ravi Kumar, Arun Vignesh N, Asisa Kumar Panigrahy, "Temperature Influence on Dielectric Tunnel FET Characterization and Subthreshold Characterization" Silicon(2022), springer, DOI: https://doi.org/10.1007/s12633-022-01776-7, April 2022.
- Beerendra Kumar Patel and Jitendra Kanungo , "Design of an Efficient Reverse Converter for Moduli Sets," Journal of Engineering Research Kuwait, Academic Publication Council, Kuwait University, DOI:10.36909/jer.ICMET.17193, April. 2022.
- Beerendra Kumar Patel and Jitendra Kanungo, "Area efficient Diminished-1 Modulo $2n+1$ Adder using Parallel Prefix Adder," Journal of Engineering Research. Kuwait, Academic Publication Council, Kuwait University, DOI:10.36909/jer.ICAPIE.15073, March. 2022.

B: Conference/Seminar/Webinar/Workshop/FDP participated

- Dr. Ranu Gupta attended a technical talk on the topic "Phishing and Cyber Security Awareness" organized by the Faculty of Computer Applications, Marwadi University, Rajkot on July 2, 2022.
- Dr. Ranu Gupta has attended a technical talk on the topic "Data Science Basics" organized by the Faculty of Computer Applications, Marwadi University, Rajkot on July 2, 2022.
- Dr. Deepak Sharma completed four-week online course on "Introduction to Research for Essay Writing" on June 28, 2022.



Waste Management Event by Electronics & Communication Department



Annual Cultural Fest during April 08 to April 10, 2022

- Dr. Jitendra Kanungo attended “UHV-II: Understanding Harmony and Ethical Human Conduct” six-day FDP conducted by AICTE, India on May 16-21, 2022.
- Dr. Manish Patidar attended as Team mentor in grand finale of “Toycathon-2021”, Physical Edition at Netaji Subhas Institute of Technology (NSUT), Sector-3, Dwarka, Delhi organized by Government of India on May 24-26, 2022.
- Dr. Rajesh Kumar Vishwakarma attended online one-day webinar on “Electronic design guiding principles,” Organized by Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, Raghuagarh Guna, on April 29, 2022.
- Dr. Ravi Kumar presented a paper titled “A Comparative Understanding in Applying Various Artificial Neural Networks in Creating Wireless Networks for Better Tracking and Movement of Packages in the Industry” in IEEE sponsored 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE 2022), on April 28-29, 2022.
- Dr. Shefali Sharma and Dr. Ranu Gupta has participated in an online short-term course titled “Remote Sensing for Space and Atmosphere” conducted as a part of a quality improvement program, organized by the Department of Astronomy, Astrophysics and Space Engineering, IIT Indore on April 25-30, 2022.
- Dr. Ravi Kumar attended the online training/webinar on “IEEE Xplore” organized by Jaypee University of Engineering and Technology, Guna in association with EBSCO and IEEE on April 13, 2022.
- Dr. Narendra Singh, Dr. Jitendra Kanungo and Dr. Ranu Gupta attended “Microsoft Innovative Educator” Programme” Microsoft Educator Centre, India, on March 21, 2022.
- Dr. Ravi Kumar, Dr. Subodh Kumar Singhal, Mrs. Rishika Chauhan and Dr. Deepak Sharma attended the training on “Microsoft Azure Data Fundamental” organized by Association of Indian Universities in the month of March, 2022.
- Dr. Ranu Gupta and Mrs. Rishika Chauhan has attended a technical talk on the topic “Embedded Systems in Electric Vehicles” organized by the Department of Electronics and Telecommunication Engineering, Symbiosis Institute of Technology, Pune on March 26, 2022.
- Dr. Ranu Gupta has attended the course “Block Chain for Business” organized by Motilal Nehru National Institute of Technology, Allahabad Prayagraj on March 26-31, 2022.
- Dr. Shefali Sharma, through online platform, has attended a technical talk on the topic “Embedded Systems in Electric Vehicles” organized by the Department of Electronics and Telecommunication Engineering, Symbiosis Institute of Technology, Pune on March 26, 2022.
- Dr. Shefali Sharma has participated in the Faculty Development Programme on Intelligent Computing and Communications organized by the Centre for Artificial Intelligence, Banasthali Vidyapith on March 21-26, 2022.
- Dr. Rajesh Kumar Vishwakarma attended online one-day webinar on “National intellectual property awareness mission,” organized by Intellectual property office, India, on March 22, 2022.
- Dr. Ravi Kumar and Dr. Deepak Sharma served as members of Technical Program Committee of the 4th International Conference on Machine Intelligence and Signal Processing (MISP 2022) organized by Department of Computer Science, National Institute of Technology, Raipur on March 12-14, 2022.
- Dr. Shefali Sharma participated & completed successfully AICTE Training and Learning Academy Online Elementary FDP on “Smart cities for sustainable development” at Motilal Nehru National Institute of Technology Allahabad on March 7-11, 2022.
- Dr. Narendra Singh, Dr. Ravi Kumar, Dr. Manish Patidar Dr. Shefali Sharma, Dr. Ranu Gupta, Dr. Subodh Kumar Singhal and Mrs. Rishika Chauhan participated in IP Awareness/Training program under “National Intellectual Property Awareness Mission” organized by Intellectual Property Office India on February 26, 2022.

C: Publication of Book/Chapter

- Ravi Kumar, Monika Saxena, Virendra Khurana, Rakesh Kumar, "Wireless Communication and Networking", Book River Publisher, India, ISBN: 978-9355153944, May 2022.
- Ravi Kumar, "Initiatives by Government to Manage the E-waste" published in "E-waste in India: Management, Challenges & Opportunities", Vol-II, Authorpress Publisher, pp.65-80, ISBN: 978-93-5529-322-0, March 2022.

D: Conferences/Seminars/Webinar/Workshops organized

- The Department organized a virtual Alumni get-together for the batch 2008-12 on April 9, 2022.
- A webinar was organized on "Electronics design guiding principles", on April 29, 2022. The talk was delivered by Ms. Samantha Rao, power delivery architect in Intel, Bangalore.

E: Ph.D. Awarded

- Ph.D. degree has been awarded to Mr. Beerendra Kumar Patel by the University for his thesis entitled "Design of RNS based efficient arithmetic", under the supervision of Dr. Jitendra Kanungo on May 24 2022.

F: Patent/Copyright

- Dr. Ravi Kumar has been granted following International/National patents during the reported period of this Chronicle:
 - An Artificial Intelligence Based System for Detection of Breast Cancer in Human Body (German Patent) (Patent Grant detail: 20 2022 100 092 (IPC: G16H 50/20), Date of Filing: 07/01/2022, Date of Publication: 21/02/2022).
 - An Intelligent System for Weather Monitoring and Natural Disasters Prevention using IoT and AI and ML (German Patent) (Patent Grant detail: 20 2022 100 460 (IPC: G08B 21/10), Date of Filing: 27/01/2022, Date of Publication: 15/02/2022).
 - Intelligent Street Light ON/OFF System based on the Object Detection (German Patent) (Patent Grant detail: 20 2022 101 198 (IPC: G05D 25/02), Date of Filing: 03/03/2022, Date of Publication: 11/04/2022).
 - A Pen for Converting Text into Speech (Design Patent) Patent Grant detail: 356582-001 (Class 14-02), Date of Filing: 12/01/2022, Date of Publication: 18/03/2022).
 - Wearable devices for vital signs monitoring of pregnant Women (Design Patent) Patent Grant detail: 357096-001 (Class: 24-01), Date of Filing: 21/01/2022, Date of Publication: 01/04/2022).
 - A System to Detect the Efficiency of Employees in an Office Environment (Design Patent) (Application Number: 360668-001 (CBR No.: 214746), Date of Publication: 17/06/2022, Journal No.24/2022).
 - Dr. Ravi Kumar's patent, "Intelligent Robotic Exoskeleton and Brain Sensing Headband to enable Paralyzed People to Locomote," has been published (Application Number: 202241020094, Date of Publication: 15/04/2022, IPC Journal No. 15/2022).

G: Student's Activities

- The IETE Students's Forum - JUET Guna organized E-waste collection on April 7, 2022.

H: Student Achievements

- A student team "Ancient Smiths" consisting of Mr. Pandit Atul Kumar Umashankar, Mr. Yuvraj Chouksey, Mr. Ujjwal Katiyar & Mr. Raj Kumar Jha presented a toy project proposal entitled "RUKMA VIMANA (An Ancient Flying Machine)", in grand finale of "Toycathon-2022", held at Netaji Subhas Institute of Technology (NSUT), Sector-3, Dwarka, Delhi, organized by Innovation Cell of MoE, GOI on May 24-26, 2022.
- Poorvi Gupta presented a paper titled "Evolution of 5G: Security, Emerging Technologies & Impact", in International Conference on Communications and Cyber-Physical Engineering (ICCCE 2022) on April 29-30, 2022.



Event on Save Soil and Soil Management on April 16, 2022



**Final Year Students
(Highest Package approx.
44 lac)**



**Final Year Cultural Night
on April 04, 2022**

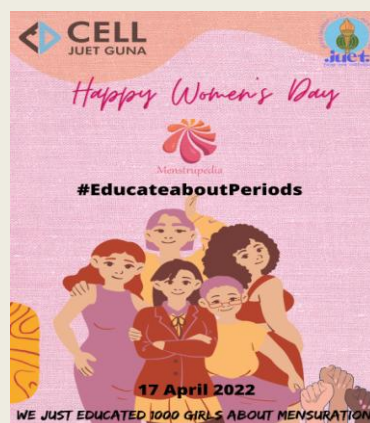
MECHANICAL ENGINEERING

A: Publication in Journals

- Pankaj Dumka, Rishabh Rathor, Kirti Katiyar, Dhananjay R Mishra, "Techno-economic investigation of passive solar still augmented with permanent magnets and ultrasonic fogger", International Journal of Renewable Energy Technology, Vol. 13, No. 3, pp. 285-305, June 2022.
- Kiran Kumar Sahu, Yashwant Kumar Modi, "Multi response optimization for compressive strength, porosity and dimensional accuracy of binder jetting 3D printed ceramic bone scaffolds", Ceramics International, DOI: 10.1016/j.ceramint.2022.05.375, June 2022.
- Pankaj Gupta, Bhagat Singh and Yogesh Srivastava, "Robust techniques for signal processing: A comparative study", EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, 2022. Vol. 09, Issue 02, pp404-411, June 2022.
- Pankaj Dumka, Parth Singh Pawar, Abhay Sauda, Gaurav Shukla, Dhananjay R Mishra, "Application of He's homotopy and perturbation method to solve heat transfer equations: A python approach", Advances in Engineering Software, Vol. 170, 103160, May 2022.
- Rohit Mishra, Bhagat Singh and Yogesh Shrivastava, "An effort for identifying stability regimes in CNC milling using spline-based local mean decomposition", Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 44, No. 221. <https://doi.org/10.1007/s40430-022-03523-w>, May 2022.
- Rohit Mishra, Bhagat Singh and Yogesh Shrivastava, "Measurement of Tool Chatter and MRR Using Sound Signal during Milling of Al 6061-T6", MAPAN, <https://doi.org/10.1007/s12647-022-00567-0>, May 2022.
- Pankaj Dumka, Ayush Singh, Gaurav P Singh, Dhananjay R Mishra, "Kinematics of Fluid: A Python Approach", International Journal of Research and Analytical Reviews, Vol. 9, No. 2, pp. 131-135, April 2022.
- Adarsh Deo, Arnav R Joshi, Aman Parashar, Dhananjay R Mishra, Pankaj Dumka, "Analysing One Dimensional Tapered Pin-Fin using Finite Difference", Research and Applications of Thermal Engineering, Vol. 5, No. 1, pp. 1-6, April 2022.
- Parth singh Pawar , Dhananjay R. Mishra, Pankaj Dumka, "Obtaining Exact Solutions of Visco- Incompressible Parallel Flows Using Python", International Journal of Engineering Applied Sciences and Technology, Vol. 6, No. 11, pp. 213-217, March 2022.
- Parth singh Pawar, Dhananjay R Mishra, Pankaj Dumka, "Solving First Order Ordinary Differential equations using Least Square Method: A comparative study", International Journal of Innovative Science and Research Technology, Vol. 7, No. 3, pp. 857-864, March 2022.
- Pankaj Dumka, Saksham Sharma, Harshit Gautam, Dhananjay R Mishra, "Finite Volume Modelling of an Axisymmetric Cylindrical Fin using Python", Research and Applications of Thermal Engineering, Vol. 4, No. 3, pp. 1-11, March 2022.
- Rohit Mishra and Bhagat Singh, "Prediction of milling chatter using SBLMD-ANN", Journal of Mechanical Science and Technology, Vol. 36, <https://doi.org/10.1007/s12206-022-0135-5>, February 2022.
- Rohit Mishra and Bhagat Singh, "Extenuating Chatter Vibration in Milling Process Using a New Ensemble Approach", Journal of Vibration Engineering and Technologies, <https://doi.org/10.1007/s42417-022-00440-z>, February 2022.
- Pankaj Dumka, Rishabh Rathor, Saksham Sharma, Kirti Katiyar, Harshit Gautam, Chinmay Gunawat, Dhananjay R. Mishra, "Impact of Coconut Husks on the Productivity of Conventional Solar Still: A Heat Transfer Study", Current Advances in Geography, Environment and Earth Sciences, Vol. 4, pp. 1-14, February 2022.
- Pankaj Dumka, Harshit Gautam, Saksham Sharma, Chinmay Gunawat, Dhananjay R Mishra, "Impact of Sand Filled Glass Bottles on Performance of Conventional Solar Still", Journal of Basic & Applied Sciences, Vol. 18, pp. 8-15, February 2022.
- Yogesh Shrivastava, Eram Neha, Bhagat Singh, Prashant Kumar Shrivastava, KVSR Murthy, Durgesh Nandan, "Analysis of Regenerative Raw Signals Using Variational Mode Decomposition", Traitement du Signal, Vol. 39 Issue 1, pp 299-304, February 2022.



Shark Tank Event by JUET ED Cell on March 26, 2022



Awareness programme for women by JUET ED Cell on April 17, 2022.

B: Publications in Conference Proceeding

- Amit Sharma, Priyanka Joshi and Kuldeep Kumar Saxena, Empirical modeling and optimization of kerf characteristics in Nd-YAG laser cutting of Al 6061-T6 sheet, Proceedings of the Institution of Mechanical Engineers Part E: Journal of Process Mechanical Engineering DOI: <https://doi.org/10.1177/09544089221112071>.
- P Dumka, S Sharma, H Gautam, C Gunawat, D R Mishra, "Estimation of heat transfer internal heat transfer coefficients of conventional solar still augmented with solar pump", in Proceedings of Istanbul International Modern Scientific Research Congress -II, pp. 274-280, April 2022.

C: Conference/Seminar/Webinar/Workshop/FDP participated

- All faculty members of the Department have attended one-week workshop on "NAAC Assessment and Accreditation (A&A) process" organized by IQAC, JUET, Guna held during 25-29 July 2022.
- Dr. Yashwant Kumar Modi delivered a lecture in the one-week workshop on "NAAC Assessment and Accreditation (A&A) process" organized by IQAC, JUET, Guna held during 25-29 July 2022.
- Dr. Amit Sharma attended online Faculty Development Programme on "Additive Manufacturing and 3D Printing (AM & 3DP)" jointly organized by the Electronics and ICT Academies at IIT Roorkee, MNIT Jaipur, NIT Patna, and PDPM IITDM Jabalpur during July 18 -29, 2022 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India.
- Dr. Amit Sharma, Dr. Yashwant Kumar Modi, Dr. K.L. Dhaker, Dr. Pankaj Dumka, Mr. Rohit Mishra and Mr. Tasnim Arif attended "Impact Lecture Series-2 2022" organized by Jaypee University of Engineering and Technology, Guna in collaboration with Ministry of Education's Innovation Cell and AICTE, New Delhi on July 15, 2022.
- Dr. Amit Sharma delivered an expert talk on "Laser Beam Machining of Advanced Engineering materials in FDP on "Advances in Manufacturing Technology" organized by Faculty of Mechanical Engineering, Shri Ramswaroop Memorial University Barabanki (online mode) during July 11-16, 2022.
- Dr. Amit Sharma, Dr. Yashwant Kumar Modi, Dr. Pankaj Dumka, Mr. Rohit Mishra and Mr. Tasnim Arif attended "Impact Lecture Series-1 2022" organized by Jaypee University of Engineering and Technology, Guna in collaboration with Ministry of Education's Innovation Cell and AICTE, New Delhi on June 25, 2022.
- Prof. Ghanshyam Singh, Dr. Amit Sharma, Dr. Yashwant Kumar Modi, Dr. Manoj Dubey attended the Webinar namely "Teaching informed research for employability and enhanced learning" organized by Department of Mechanical Engineering of Jaypee University of Engineering & Technology, Guna in association with Vaave on May 6, 2022.
- Dr. Amit Sharma chaired a session in 13th International Conference on Material Processing Characterization (ICMPC-2022) conducted by Department of Mechanical Engineering Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad, Telangana, India during 22-24 April, 2022.
- Dr. Amit Sharma, Dr. Kedari Lal Dhaker attended the online training on "IEEE explore" conducted by IEEE EBSCO on April 13, 2022.
- Dr. Yashwant Kumar Modi served as Co-Chair, National Collaboration and chaired a session in International Conference on Advances in Materials, Mechanics, Mechatronics and Manufacturing (IC4M-2021) organized by Yajurvedam, An Association for Educational Empowerment and Social Welfare (<http://ic4m.in/ic4m2021/organizers.html>) during April 9-10, 2022.
- Dr. Kedari Lal Dhaker completed the NPTEL FDP course of "Python for Data Science" as topper offered by Department of CSE, IIT-Madras, in March 2022.
- Pankaj Dumka presented a paper titled "Impact of wax-filled glass bottles on the performance of conventional solar still", ISPEC 9th International Conference Agriculture, Animal Science and Rural Development, in March 2022.
- Dr. Bhagat Singh, Dr. Yashwant Kumar Modi and Dr. Kedari Lal Dhaker completed training program on "Microsoft Azure AI Fundamentals" jointly conducted by Association of Indian Universities and Microsoft Corporation on March 17, 2022.
- All faculty members of the Department attended a webinar namely "Industry Expectations from Freshers" organized by Department of Mechanical Engineering of Jaypee University of Engineering & Technology, Guna on March 07, 2022.



Every Saturday as Cycle day in JUET



Workshop on 'Developing career and skills in Photography' March 7-9, 2022

- Dr. Bhagat Singh and Dr. Kedari Lal Dhaker attended training on "Intellectual Property Right" organized by Intellectual Property Office, Ministry of Commerce and Industry, Govt. of India on February 26, 2022.
- All faculty members of the Department attended a webinar namely "Demand of Mechanical Design and Manufacturing Experts in Software Industries" organized by Department of Mechanical Engineering of Jaypee University of Engineering & Technology, Guna in alliance with JUET Alumni Association on February 26, 2022.

D: Ph.D. Awarded

- Ph.D. degree has been awarded to Mr. Manoj Dubey by the University for his thesis entitled "Purification of saline water using single and double slope solar stills: study of heat and mass transfer" under the supervision of Dr. Dhananjay R. Mishra in June 2022.

E: Patent/Copyright

Following Patent/Copyright have been granted to faculty members of the Department:

- Yogesh Shrivastava, Bhagat Singh and Akshay Jain, "Method and system for determining heat affected zone during the laser beam drilling of hybrid composite." Application Number: 2021102727, Patent Granted by Australian Government, IP Australia.
- Rohit Mishra, Bhagat Singh and Yogesh Shrivastava, "A hybrid approach based on SBLMD and ANN to maximize productivity at chatter free milling" Copyright Registration Number: L-110044/2021, Granted by Copyright Office, Government of India.

F: Student Achievements

- Virtual Alumni get-together was conducted on May 7, 2022. Alumni of 2015 batch enthusiastically participated and appreciated the initiative of online get-together.
- Mechanical Engineering Society (MES) organized "Photoshop Workshop" on 07 March 2022 for the students.
- An alumni interaction was conducted on February 25, 2022 in offline mode. Department's alumnus Mr. Palkesh Maithil interacted and answered the queries of the students.
- Mechanical Engineering Society (MES) and SAEINDIA-JUET in association with MPCST, NCSTC, Azadi ka Amrit Mahotsav organized an event "Biography: Life of the great scientist" to pay tribute to great scientists on February 22, 2022.
- An online webinar "Study Abroad: The New Scenario" was conducted by two of our alumni Mr. Santosh Singh, Mr. Akash Sharma, and Mr. Arpit Shah on February 19, 2022.

HUMANITIES AND SOCIAL SCIENCES

A: Publications in Journals

- Rachna Chaturvedi, Abhishek Shukla, Sandeep Srivastava, Shivani Kapoor, and Madhu Jasola, "Do home quarantine individuals suffer from claustrophobia and anxiety during COVID-19 pandemic?", Cogent Psychology, Volume 9, No. 1, pp. 2058787, April 2022.
- Abhishek Shukla and Kamini Bhasin, "Social media usage in higher education: Role in marketing and communication during COVID-19", Transnational Marketing Journal, Vol. 10, No. 1, pp. 87-101, April 2022.

B: Conference/Seminar/Webinar/Workshop/FDP Organized

- Dr. Sandeep Srivastava and Mrs. Tamanna Agarwal organized a webinar on the topic 'Start-up challenges for women entrepreneurs in India' at JUET, Guna under the aegis of Department of HSS and EDC cell on April 29, 2022.
- Mrs. Tamanna Agarwal co-ordinated IP Awareness program under NIPAM organized by Intellectual Property Office, India on March 8, 2022.
- Dr. Kamini Bhasin organized a three-day workshop on 'Developing career and skills in Photography' for students, faculty, and staff members during March 7-9, 2022 at JUET, Guna.
- Dr. Sandeep Srivastava and Mrs. Tamanna Agarwal organized a webinar on the topic 'Entrepreneurship and Digital Marketing' at JUET, Guna under the aegis of Department of HSS and EDC cell on March 5, 2022.



**JUET Builds Event by
Coding Club on February
9, 2022**



C: Conference/Seminar/Webinar/Workshop Participated

- Dr. Sandeep Srivastava, Mr. Neeraj Jain, Mrs. Tamanna Agarwal participated in the 'Impact Lecture Series 2022' organized by JUET, Guna in collaboration with MoE's Innovation cell and AICTE, New Delhi, held on July 15, 2022.
- Dr. Abhishek Shukla participated in one-day workshop on 'How to bridge the gap between student skillset and Industry requirement to increase placement' organized under the skill academy campus program on July 02, 2022.
- Dr. Sandeep Srivastava, Dr. Kamini Bhasin, Mrs. Tamanna Agarwal completed an online training program on innovation ambassador training foundation level (15 sessions of 30 hours) organized by MoE's Innovation cell from July 1-11, 2022.
- Dr. Abhishek Shukla participated in National FDP on 'Unlocking the potential of Intellectual Property Rights' organized by Lingaya's Laita Devi Institute of Management Sciences on June 24, 2022.
- Dr. Abhishek Shukla participated in National FDP on 'International Yoga Day' organized by GFSRD-Global Centre for Public Health Care and Management in collaboration with SHHF & SRICASW on June 21, 2022.
- Mr. Neeraj Jain attended a three-day happiness meet on 'Happy Workplace: Industry Academia Convergence' by IIT-Kharagpur & IIM Ranchi sponsored by JUET, Guna on June 6-8, 2022.
- Mrs. Tamanna Agarwal attended an online management development program on 'HR Analytics Fundamentals from Basic to Advance' organised by Swasthik Consulting Services, Bangalore from April 9 - June 5, 2022.
- Mr. Neeraj Jain attended a three-day webinar on 'Artificial Intelligence' by Microsoft, sponsored by JUET, Guna on March 16-18, 2022.
- Dr. Abhishek Shukla, Dr. Shekhar Singh, Dr. Kamini Bhasin, Mrs. Tamanna Agarwal, Dr. Sandeep Srivastava, Dr. Vikram Singh Chouhan attended a training program on Microsoft Azure AI Fundamentals organised by AIU & Microsoft from 15-17 March 2022.
- Mrs. Tamanna Agarwal participated in a one-week FDP 'Structural Equation Modelling using SPSS AMOS', organised by MergenBioLogics Training and Research Pvt. Ltd. from 7-12 March 2022.
- Dr. Shekhar Singh participated in online workshop on 'Technical Analysis for Stocks' organized by Meerashpa Learning Solutions, from 7th -10th March 2022.
- Dr. Vikram Singh Chouhan attended a webinar on 'Bridges with external Pre-stressing: Future of Bridge Construction in India' on February 26, 2022, conducted by ULTRATECH Cement Ltd.
- Dr. Kamini Bhasin, Dr. Vikram Singh Chouhan, Dr. Shekhar Singh, Dr. Sandeep Srivastava, Mr. Neeraj Jain, Mrs. Tamanna Agarwal attended IP Awareness/Training program under NIPAM on February 26, 2022, conducted by Intellectual Property Office, India.
- Dr. Vikram Singh Chouhan attended FDP on 'Inculcating Universal Human Values in Technical Education' during February 21-25, 2022, conducted by AICTE.
- Dr. Abhishek Shukla participated in one-day webinar on 'Study Abroad: A New Scenario' organized by Jaypee University of Engineering and Technology, Guna in Collaboration with Vaave on 19 February 2022.
- All the faculty members of the department attended a FDP on 'Innovation and Creativity' by Dr. Mamta Rani Agarwal, Advisor-1, AICTE, New Delhi, sponsored by JUET, Guna on February 16, 2022.
- Dr. Abhishek Shukla participated in one-day webinar on 'How to stand out in Resume and Interview' organized by Jaypee University of Engineering and Technology, Guna in collaboration with Vaave on February 12, 2022.
- Dr. Sandeep Srivastava participated in one-day webinar on 'How to stand out in Resume and Interview' organized by Jaypee University of Engineering and Technology, Guna in collaboration with Vaave on February 12, 2022.

D: Ph.D. Awarded

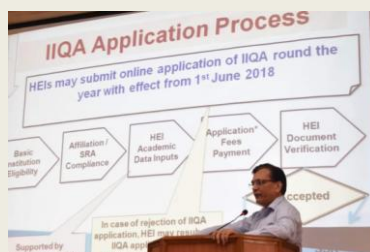
- Ph.D. degree has been awarded to Ms. Jyoti Rathore by the University for her thesis entitled, "Study of Job Satisfaction of Employees in Public Sector and Private Sector in India" under the guidance of Dr. Vikram Singh Chauhan in May 2022.

E: Faculty Seminar

- Dr. Sandeep Arya delivered a seminar "IPR practices and policies" on April 15, 2022.



MOU between JUET and University of Lucknow on March 4, 2022



One week Workshop on NAAC Assessment and Accreditation (A&A) Process organized by IQAC, Jaypee University of Engineering and Technology, Guna during July 25-29, 2022

MATHEMATICS

A: Publication in Journals

- Pankaj Prasad Dwivedi and Dilip Kumar Sharma, "Application of Shannon Entropy and CoCoSo Methods in Selection of the Most Appropriate Engineering Sustainability Components", Cleaner Materials, Vol 5, pp. 1-7, July, 2022.
- R.P. Namdeo and B.R. Gupta, "Impact of Magnetic Field on the Flow of a Conducting Fluid Past an Impervious Spheroid Embedded in Porous Medium, International Journal of Applied and Computational Mathematics, Vol 8 (3), pp. 1-14, June, 2022.
- Pankaj Prasad Dwivedi and Dilip Kumar Sharma, "Application of Shannon Entropy and COCOSO techniques to analyze performance of sustainable development goals: The case of the Indian Union Territories", Results in Engineering, Vol 14, pp. 1-9, June, 2022.
- Pankaj Prasad Dwivedi and Dilip Kumar Sharma, "Generalized 'Useful' Converse Jensen's Inequality with Data Illustration", WSEAS Transactions on Systems, Vol 21, pp. 62-67, May, 2022.

B: Conferences/Seminars/Webinar/Workshops/FDP Participated

- Dr. Bali Ram Gupta and Dr. Divya Jain has delivered a lecture in the "one-week workshop on NAAC Assessment and Accreditation (A&A) process" organized by IQAC, Jaypee University of Engineering and Technology, Guna held during 25-29 July 2022.
- Dr. D.K. Sharma, have participated in the "one-week workshop on NAAC Assessment and Accreditation (A&A) process" organized by IQAC, Jaypee University of Engineering and Technology, Guna held during 25-29 July 2022.
- Dr. Bali Ram Gupta has participated in Impact Lecture Series 2022 organized by JUET, Guna in collaboration with Ministry of Education's Innovation Cell, AICTE New Delhi held on 25th June, 2022 and 15th July, 2022.
- Dr. Divya Jain has participated in one-week FDP on "Transforming Education with Industry 4.0" organized by Dept. of CSE and IT, JUIT, Wagnaghat Solan, HP, during June 15 -20, 2022.
- Dr. Divya Jain has completed CBPR Master Trainers Training Programme conducted by UGC, under Unnat Bharat Abhiyaan scheduled on June 16-18, 2022.
- Dr. D.K. Sharma, Dr. Bali Ram Gupta and Dr. Divya Jain completed the training program jointly conducted by Association of Indian Universities (AIU) in collaboration with Microsoft on the 'Microsoft Azure Fundamentals' during March 15 - 17, 2022.
- Dr. D.K. Sharma, Dr. Bali Ram Gupta and Dr. Divya Jain have successfully participated in IP Awareness/Training program under "National Intellectual Property Awareness Mission" organized by Intellectual Property Office, India on February 26, 2022.

C: Ph.D. Awarded

- Ph.D. degree has been awarded to Ms. Akanksha Singhal by the University for her thesis entitled, "Generalized Information and Divergence Measures with their Applications", under the supervision of Dr. Dilip Kumar Sharma on April 25, 2022.

PHYSICS

A: Publication in Journals

- C. Parmar, R. Verma, S.S. Modak, F. Mazaleyrat, S.N. Kane, "Si⁹⁺ Ion-Irradiation induced Modification of Structural and Magnetic Properties of Zn- nanoferrite", ECS Journal of Solid State Science and Technology, 11 053015 (2022), DOI: <https://doi.org/10.1149/2162-8777/ac6f1b>, May 2022.

B: Conferences/seminars/webinars/workshop/FDP Participated

- Dr. Mukesh C. Dimri presented a paper titled "Modification in Structural and Magnetic Properties of Mn/Al Bilayer Thin Films by Swift Heavy Ion Irradiation" in International Conference on Nanotechnology for Sustainable Living & Environment (ICON-NSLE-2022), BITS Pilani, Rajasthan, India during April 14 -16, 2022.
- Salil Modak participated in 4th International Conference on Material Science and Manufacturing Technology, 2022 (ICMSMT-2022), April 08-09, 2022.



**Alumni Talk by one of our
Alumni Ms. Anamika
Singh on March 22, 2022**



**Felicitations of passing out
batch 2018-22 (Offered
Highest Package)**

TRAINING AND PLACEMENT

More than 120 in-campus recruitment companies have visited and around 15 off-campus recruitment opportunities provided for 2022 batch recruitment process by companies like Zeta, Flipkart, Amazon, Google, Gojek, Tact.ai, Goldman Sachs, Scaler by InterviewBit, Interview Bit, Alation, One Direct, Amazon, Inframarket, Megasoft Solution (I) Pvt. Ltd., Nference, ISC IT Services, Oyo, Convegenius, ZS Associates, Infinix, Make MyTrip, Plaxonic Technologies Pvt Ltd., Times Internet, Zopsmart, Hevodata, Grabon, Swati Web Technologies Pvt Ltd, Byjus, Pentair, Magic EdTech, FIS Global, Allen, Practo Technologies Pvt. Ltd., Infosys, Icertis, TestBook, WatchGuard, Zopsmart, Delhivery, Hashedin By Deloitte, FICO, Florence Capital, Slobull, Impetus, Smarte Codes, RTDS, Kuliza, Grey B, VR AR MR, SOTI, Iprep, Orgzit, NPCI, Cognizant Gen C Next, Jaro Education, Accenture, Autometers Alliance Ltd., Planful, Saviyant, Nagarro, Vector Scalar Technologies, Evalueserve, Technogise Pvt. Ltd., Onextel, Demand Farm, Advanced Software, Genpact, Cubastion, RxLogix, Amantya Technologies, Cognizant Gen C Pro, Protiviti, Decimal Technologies, Graygraph Technologies Pvt Ltd, Hexaware, White Hat Junior, Graviss, Tinkerly, SBI Card, Keyence India, Shivalika Bank, Accenture, Jaypee Group, Byjus, Navyug Infosolutions, EY India, Mountblue Technology, Cognizant, Valued Epistemics (GREedge), DXC, Coforge, WIPRO, TCS, Phronesis Partner, Windcare India Pvt. Ltd.

- CSE students Deepak Mehrotra, Saisyama Paruchuru and Ayush Dixit received highest package of 44 Lakhs/PA by Zeta.
- CSE student Dhivagar M received 2nd highest package of 32.57 Lakhs/PA by Flipkart.
- CSE students Palak Modi, Atharva Thombre, Dhivagar M, Piyush Dikshit, Tejas Pandey and Deepak Mehrotra received 3rd highest package of 32.17 Lakhs/PA by Amazon.
- CSE students Tejas Pandey and Deepak Mehrotra received 4th highest package of 30 Lakhs/PA by Google.
- CSE student Tejas Pandey received package of 28 Lakhs/PA by Gojek.
- CSE student Soham Chatterjee received package of 26 Lakhs/PA by Tact.ai.
- CSE student Suyash P Singh received package of 25 Lakhs/PA by Infinix.
- CSE student Aagam Jain received package of 24 Lakhs/PA by Goldman Sachs.
- CSE student Mudit K Dubey received package of 23 Lakhs/PA by Scaler by InterviewBit.
- CSE students Ashutosh Shrimal, Rachit Shrivastava, Yashi Tandon and Achal Bhadada received package of 22 Lakhs/PA by InterviewBit.
- CSE student Sayant Jain received package of 20.83 Lakhs/PA by Alation.
- CSE students Pulkit Yadav, Rashi Shrivastava and Mudit Kumar Dubey received package of 20 Lakhs/PA by Amazon.
- CSE students Ayush Dikshit and Prateek Chauhan received package of 19.50 Lakhs/PA by Inframarket.
- CSE student Ishan S Bangroo received package of 18 Lakhs/PA by Megasoft Solutions.
- CSE students AshShubh Mehrotra, Vaibhav Jain and Sanskar Khandelwal received package of 17 Lakhs/PA by Nference.
- CSE student Ishan S Bangroo received package of 16.50 Lakhs/PA by ISC IT Services.
- CSE student Deepak Mehrotra received package of 15 Lakhs/PA by Convegenius.
- CSE student Anurag Yadav received package of 13 Lakhs/PA by Oyo.
- CSE students Shubham Singh and Rohit Singh received package of 12.84 Lakhs/PA by ZS Associates.
- CSE student Rahul Rao received package of 12 Lakhs/PA by Make My Trip.
- CSE student Divya Srivastava received package of 11.50 Lakhs/PA by Plaxonic Technologies.
- CSE student Rajat Tripathi received package of 10.50 Lakhs/PA by Times Internet.
- CSE students Aagam Jain, Aakansha Singh, Abhishek Gupta, Ashutosh Shrimal, Mahima Pandey, Richesh Gupta, Sharif Nawaz, Shivam Sharma, Shivani Sharma, Shruti Khare, Shubham Sirothiya, Vijay Sethiya, And Mudit K Dubey received package of 10 Lakhs/PA by ZopSmart Technologies.
- CSE students Anirudh S Chauhan and Shivam Yadav received package of 10 Lakhs/PA by Hevodata.



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- CSE student Radhika Verma received package of 10 Lakhs/PA by Grabon and Ayush Jain received package of 10 Lakhs/PA by Swati Web Technologies.
- CSE student Piyush Chouthwani received package of 10 Lakhs/PA by Byjus.
- ME student Jogesh Rajiyan received package of 6 Lakhs/PA by Evalueserve.
- ME student Harshit Gautam received package of 4.7 Lakhs/PA by Keyence India.
- ME students Aayush Singh, Aditya Kumar Jha, Gaurang Tiwari, Manish Kumar, Shivam Tiwari, Suryansh S Chouhan And Yash Bhagoria received package of 4.5 Lakhs/PA by Jaypee Group.
- CE students Abhishek R Pandey, Ashish Singh, Gaurav Singh, Pankaj V Khatri, Pratyush Singh, Rohit Kumar Singh, Sarthak Yadav, Vishankh Gautam And Rahul Dhakad received package of 4.5 Lakhs/PA by Jaypee Group.
- 28 Companies offered 57 students with package 10 Lakhs/PA and above.
- 70 Companies offered package 6 Lakhs/PA and above.
- Over all placement percentage offer wise is 195.67%.
- 178 students are placed in more than one company.
- Average package offered to students is 7.82 Lakhs/PA.
- 219 students have been offered CTC 6 Lakhs/PA and above.

JUET YOUTH CLUB (JYC)

Event Conducted by JUET Youth Club during the reported period are as follows:

- | | |
|-------------------------------|------------------------------|
| ▪ Yoga Day | : June 21, 2022 |
| ▪ D' Equinox- 2K22 | : April 08 to April 10, 2022 |
| ▪ Final Year Cultural Night | : April 04, 2022 |
| ▪ Third Year Cultural Evening | : March 05, 2022 |
| ▪ Open Mic | : March 02, 2022 |
| ▪ Musical Night | : February 26, 2022 |

LEARNING RESOURCE CENTRE (LRC)

- Subscription of on-line e-resources Springer Nature, IEEE CSDL IEEE ASPP and Magzter for e-journals and DELNET a major resource sharing library network in India connecting more than 6800 libraries in 33 states and 8 countries has been renewed.
- One new on-line e-resource EBSCO eBooks Engineering Core Collection and 126 new Books have been added to LRC.

PROMOTIONS AND APPOINTMENTS

- Dr. Partha Sarathy Banerjee (CSE), Dr. Pankaj Dumka (MEC), Dr. Jitendra Raghuwanshi (ECE), Dr. Kunj Bihari Meena (CSE), Dr. Kedari Lal Dhaker (MEC), Dr. Pankaj Gupta (MEC), Dr. Yogesh Iyer Murthy (CE) and Dr Mukesh Chandra (Physics) have been promoted to Assistant Professor (SG) from Assistant Professor (G-II).
- Mr. Navaljeet Singh Arora (CSE), Mr. Ram Kumar (MEC) have been promoted to Assistant Professor (G-II) from Assistant Professor (G-I).



Day Event in D'Equinox-2K22

Jaypee University of Engineering and Technology

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