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### Editorial Board

- Prof. Shishir Kumar - Chairman
- Dr. Rashmi Tyagi
- Dr. Yashwant Modi
- Dr. Kamini Bhasin
- Mr. Shishir Thakur



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### DAYS OF NATIONAL IMPORTANCE CELEBRATION

- Flag hoisting ceremony was performed on Republic Day, January 26, 2021. Prof. JSP Rai, Vice Chancellor of the University addressed members of JUET family.
- 125th birth anniversary of Netaji Subash Chandra Bose was celebrated on January 23, 2021.
- Shramik Diwas was celebrated on January 2, 2021.
- Vigilance Awareness Week was celebrated during October 27- November 02, 2020. E-pledge was also taken by faculty, staff and students.
- Birth anniversary of Father of Nation Shri Mahatma Gandhi Ji and Late Prime Minister Shri Lal Bahadur Shastri Ji was celebrated on October 02, 2020. Prof. JSP Rai, Vice Chancellor addressed the faculty and staff members on this occasion.

### VISIT OF EXECUTIVE CHAIRMAN, JAYPEE GROUP

- Shri Manoj Gaur, Hon'ble Executive Chairman of Jaiprakash Associates Ltd. visited JUET Guna on January 15, 2021. He was accompanied by Shri Suren Jain, MD and CEO, Jaiprakash Power Ventures Ltd., Bina (M.P.). Interaction with faculty and staff members at JUET was held besides visiting various areas in campus including WEAC and addressing teachers of Jay Jyoti School, JUET campus, Guna.

### INTERACTION BY VICE CHANCELLOR

- Prof. JSP Rai, Vice Chancellor interacted with all faculty and staff members of the university and discussed modalities to put Jaypee Universities in top 50 Indian Universities on Dec. 14 and Dec. 18, 2020.

### IMPORTANT ACADEMIC EVENTS

- 17<sup>th</sup> Board of Management (BOM) Meeting was held in blended mode on December 16, 2020.
- Prof. Rajiv Saxena, Vice Chancellor, Jaypee University, Anoopshahr and Shri S. B. Pant Ji, IIIT Noida, visited the campus during December 14-16, 2020. They also attended BOM Meeting as special invitees.



**Hon'ble Executive Chairman of Jaiprakash Associates Ltd. Shri Manoj Gaur and MD and CEO, Jaiprakash Power Ventures Ltd., Bina (M.P.) Shri Suren Jain visited university on January 15, 2021.**



**Dr. Vishwas Chauhan, Member Administration, Madhya Pradesh Private University Regulatory Commission, Bhopal visited campus on September 26, 2020.**

- Madhya Pradesh Private University Regulatory Commission (MPPURC), Bhopal organized an online meeting to introduce all Vice Chancellors and Registrars with new Chairman and Members on November 10, 2020.
- UGC Sponsored National Symposium and exhibition for 1962 War was conducted in online mode on October 22, 2020.
- Dr. Vishwas Chauhan, Member Administration, MPPURC, Bhopal visited campus on September 26, 2020.
- Deeksharambh, an online induction programme for new students of first semester 2020-21 was conducted during September 21-30, 2020. A number of eminent speakers interacted with the new students.
- An online webinar on "Role of Engineers in Developing Smart Cities in Indian Scenario" has been organized by Department of Electronics & Communication Engineering on September 12, 2020. Dr. Suresh Vishwakarma, Senior Engineer & Postdoctoral Researcher Chairman, Chartered Engineer Pacific Vancouver, Canada was the resource person of this webinar.

#### **Awards/Honours/Recognition**

- Dr. Narendra Singh has been elected as Editorial board of member in "Journal of Electrical and Electronics Engineering (JEEE) on Sep 9, 2020.
- Mr. R. K. Goliya has been recognized as a Chartered Engineer by the Institution of Engineers on August 26, 2020.
- Prof. S.Arunachalam received Best Paper award for paper titled "Modified Mass Damping Parameter for Better Prediction of Across-wind Response of Chimneys" in "TRACE- 2020" organized by Department of Civil Engineering, AMITY University during the 3rd International Conference on Trends and Recent Advances in Civil Engineering organized during August 20-21, 2020.
- Dr. Ravi Kumar has been elected as a Co-Opted Executive Committee Member of IETE Bhopal Center for the session 2020-21.

#### **ALUMNI ACHIEVEMENTS**

- Mr. Pulkit Katira, alumnus of B.Tech. CE, batch 2016-20 got admission in Masters of Engineering (Structural Engineering) at Western Ontario.
- Mr. Shivam Verma, alumnus of B.Tech. CE, batch 2015-19 got admission to the masters program in Structural Engineering at NIT, Raipur.
- Mr. Tushar Bansal, Mr. Saharsh Chaube and Mr. Sundaram Agarwal, alumni of B.Tech. CE, batch 2015-19, got admission to the masters program in Transportation Engineering at MANIT, Bhopal.
- Ms. Suyasha Chak, alumna of B.Tech. CE, batch 2015-19, got admission to the masters program at IIM Ranchi.
- Mr. Divyansh Mittal, an alumnus of B.Tech, ECE batch 2014-18 joined as Intern at Radisys Corporation.
- Mr. Rohan Srivastava, an alumnus of B.Tec, ECE batch 2014-18 joined as Application Development Analyst at Accenture Bengaluru.
- Mr. Aditya Singh, alumnus of B.Tech. CE, batch 2014-18 got admission to the masters program in Construction Planning and Management at Texas A&M University.



- Mr. Aadish Jain, an alumnus of B.Tech, ECE batch 2013-17 joined as Chief Technology Officer at DRMS Biomedicals.
- Mr. Veer Chauhan, an alumnus of B.Tech ECE batch 2013-17 has been promoted to Senior Business Analyst (Data Science Implementations) at Tredence Inc.
- Mr. Abhishek Vashishtha, an alumnus of B.Tech, ECE batch 2012-16 joined as Senior Associate Consultant at Infosys.
- Mr. Akshay Jain, an alumnus of B.Tech, ECE batch 2012-16 joined as Software Engineer at Xylem Inc, Bengaluru.
- Mr. Sushant Jain alumnus of B.Tech, ECE batch 2012-16 has been promoted to Senior Associate Consultant at Infosys.
- Mr. Ishaan Joshi, an alumnus of B.Tech, ECE batch 2012-16 joined as CISCO TAC Engineer at Aricent (Cisco Tac).
- Mr. Pallav Dhiman, an alumnus of B.Tech ECE batch 2011-15 joined as Probationary Officer at State Bank of India, Delhi.
- Mr. Piush Gupta, an alumnus of B.Tech. ECE, batch 2010-14 joined as Software Engineer at Abillion Singapore.
- Mr. Ankit Goyal, an alumnus of B.Tech ECE batch 2010-14 is promoted to SAP Basis Consultant at Capgemini.

**ACHIEVEMENTS**

**CHEMICAL ENGINEERING**

**A: Publication in Journals**

- T. K. Bharadwaj and K. N. Gupta, "Separation of dye separation using surfactant as a collector in foam fractionation: modeling and optimization by response surface methodology and grey relational analysis", Desalination and Water Treatment, DOI: 10.5004/dwt.2020.26598, September, 2020.

**B: Conference/Seminar/Workshop Participated**

- Dr. K. N. Gupta participated in one day online workshop on Social Entrepreneurship Swachhta & Rural Engagement organized by Mahatma Gandhi National Council of Rural Education, Hyderabad at JUET Guna on October 23, 2020.

**CIVIL ENGINEERING**

**A: Publication In Journals**

- Himanshu Gaur, Lema Dakssa, and Nitin Kumar Samaiya, "A novel stress-based formulation of finite element analysis", Journal of Zhejiang University Science A. DOI: 10.1631/jzus.A2000397, December 2020.
- Nancy Soni and Dharmendra Kumar Shukla, "Analytical study on mechanical properties of concrete containing crushed recycled coarse aggregate as an alternative of natural sand", Construction and Building Materials 266: 120595. Vol. 266, Part A, October 2020.
- Abhishek Verma, Velaga Sarath Babu and Srinivasan Arunachalam, "Influence of mixing approaches on strength and durability properties of treated recycled aggregate concrete", Structural Concrete, Vol. 20, No. 4, DOI: 10.1002/suco.202000221, September 2020.

**जेपी यूनिवर्सिटी गुना कैम्पस में छात्रों को डिग्री मिलने के पहले ही जाँब मिली**

इस बार 2021 में पास होने वाले बीटेक छात्रों को नवम्बर और दिसम्बर मासिक परीक्षाओं में अंकों और तैयारी के आधार पर प्रोत्साहित किया गया है।

जेपी यूनिवर्सिटी गुना कैम्पस में छात्रों को डिग्री मिलने के पहले ही जाँब मिली। इस बार 2021 में पास होने वाले बीटेक छात्रों को नवम्बर और दिसम्बर मासिक परीक्षाओं में अंकों और तैयारी के आधार पर प्रोत्साहित किया गया है।

**Successful Placement drives for Mechanical, Civil, Electronics & Communication and Chemical Engineering students.**



**Republic Day 2021  
Celebration**



**17th Meeting of Board of  
Management on  
December 16, 2020.**

### **B. Publication of Book Chapter**

- Yogesh Iyer Murthy, Akash Agarwal and Anupriya Pandey, "Recent Observations on the Characterization of Mill Scale for Potential Application in Construction Industry", Emerging Trends in Engineering Research and Technology, Vol. 10, pp. 46-52. DOI: 10.9734/bpi/etert/v10, October 2020.

### **C: Conferences/Seminars/Webinars/Workshops participated**

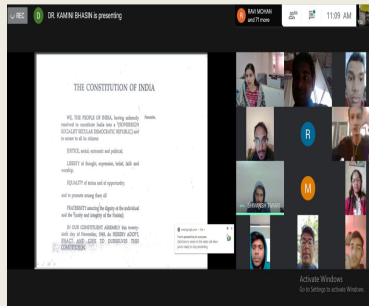
- Dr. Sumit Gandhi attended an online Faculty Development Program (FDP) on "Internet of Things: A Future Outlook in Civil Engineering"-Phase II organized and sponsored by All India Council for Technical Education (AICTE) from November 30, 2020 to December 12, 2020.
- Dr. Sumit Gandhi, Mr. Abhishek Verma, Mr. Ravindra Kumar Goliya and Mr. Shrinarayan Yadav attended one week International Workshop on Durability of Concrete (IWODOC-2020) organized by the National Institute of Technology, Surathkal, Karnataka, India during October 26-30, 2020.
- Dr. Sumit Gandhi participated in Indo-Canadian Workshop on "Interactive Design in Geotechnical Engineering: Theory to Practice" organized by NIT Surathkal, IIT Kanpur, University of Ottawa, Canada held during September 24, 2020 to October 2, 2020.
- Ravindra Kumar Goliya and Nitin Kumar Samaiya presented a paper at 3rd International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2020) titled "A novel approach for testing of concrete affected by Urea", organized by Amity University, NOIDA, during August 20-21, 2020.

### **D: Conferences/Seminars/Webinars/Workshops Organized**

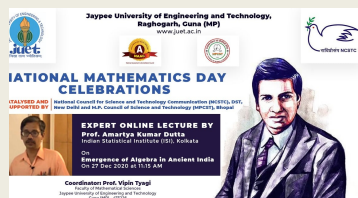
- An international webinar was organized on "Structural Retrofitting, Refurbishment and Rehabilitation" on December 28, 2020.
- An international webinar on "Green & Sustainable Building Materials and Utilization of C&D Waste" was organized on December 5, 2020.
- An international webinar on "Opportunities in Post Covid19 India for Civil Engineers" was on October 18, 2020.
- An international webinar on "Career Opportunities in Transportation Engineering" was organized on September 19, 2020.
- A national webinar on "Drone Surveying and Mapping via GIS Software" was organized on September 12, 2020.
- An international webinar on "Scope and Opportunities in Civil Engineering", was organized on September 3, 2020.

### **E: Outreach Program**

- An outreach program was organized at Guna in association with Ultratech Cement and ICI Bhopal Chapter on the topic "Concrete Mix Design". Mr. Ravindra Kumar Goliya from the department was the speaker and he addressed the importance of proper mix design on the quality of concrete to the local engineers and contractors. The event was organized on December 13, 2020.



**Virtual Constitution Day Celebration**



**Talk by Prof. Amartya Dutta from Indian Statistical Institute, Kolkata on National Mathematics Day.**

**G: Students Achievements**

- Hridesh Kumar Trivedi (171D003), student of B.Tech. IV year, presented a paper titled “Geotextile Filters in Earthen Dam- A Review Study on Construction and Rehabilitation”, in International Conference on Smart Technologies for Energy, Environment & Sustainable Development-2020 (ICSTEESD-20) on December 5, 2020.

**COMPUTER SCIENCE AND ENGINEERING**

**A: Publication in Journals**

- Narendra Sharma, Ratnesh Litoriya and Deepika Sharma, “Forecasting the Most Predictable Municipal Solid Wastes for Improving the Quality of Waste Management System in Urban & Rural Areas of India,” Muktsambhakar Journal, Vol. 10, No. 1, pp. 403–408, January 2021.
- Kunj Bihari Meena and Vipin Tyagi, “Distinguishing computer-generated images from photographic images using two-stream convolutional neural network”, Applied Soft Computing, Vol. 100, pp. 107025-107035, December 2020.
- Siddharth Singh Chouhan, Uday Pratap Singh, Utkarsh Sharma, Sanjeev Jain, “Leaf disease segmentation and classification of Jatropha Curcas L. and Pongamia Pinnata L. biofuel plants using computer vision based approaches”, Measurement, Vol. 171, 2021, DOI: <https://doi.org/10.1016/j.measurement.2020.108796>, December 2020.
- Kush Shrivastava and Shishir Kumar, “A Sentiment Analysis System for the Hindi Language by Integrating Gated Recurrent Unit with Genetic Algorithm”, International Arab Journal of Information Technology, Vol. 17, No. 6, pp. 954-964, November 2020.
- Prateek Pandey and Ratnesh Litoriya, “Ensuring elderly well being during COVID-19 by using IoT” Disaster Medicine and Public Health Preparedness, DOI: <https://doi.org/10.1017/dmp.2020.390>, October 2020.

**B: Publication of Book Chapter**

- Narendra Sharma, Ratnesh Litoriya, Harsh Pratap Singh, Deepika Sharma, “Modern Approach for the Significance Role of Decision Support System in Solid Waste Management System (SWMS)” in Goyal D., Balas V.E., Mukherjee A., Hugo C. de Albuquerque V., Gupta A.K. (eds) Information Management and Machine Intelligence. ICIMMI 2019. Algorithms for Intelligent Systems. Springer, Singapore. pp. 619-628, DOI: 10.1007/978-981-15-4936-6\_67, September 2020.

**C: Conference/Seminar/Webinar/Workshop Participated**

- Dr. Ratnesh Litoriya chaired one session in 2nd IEEE International Conference on Advances in Computing, Communication Control and Networking (ICAC3N-20) 2020 organized by Galgotias College of Engineering and Technology, Greater Noida, India on December 18-19, 2020.
- Dr. Ratnesh Litoriya participated as an expert in a Panel Discussion on "Atma-Nirbhar Bharat, Vocal for Local and Make in India for World" Organized by SAGE University Indore on December 14, 2020.





**Campus visit by officials from NPTI, Shivpuri.**



**Virtual session by Mr. Deepak Jindal, Project Manager, SAP on 28 September 2020.**

- Dr. Ratnesh Litoriya participated in one week Online FDP on “Potential and Challenges for Integrating 5G Networks and IOT Applications in Smart City Environment” organized by AICTE Training And Learning (ATAL) Academy, at Hindusthan College of Engineering and Technology Coimbatore, during November 30- December 5, 2020.
- Deepika Singh Kushwah attended online course "Open-source Technologies in Cyberspace (OTC-2020)" organized by IET Pune under TEQIP-III from November 23 - 27, 2020.
- Dr. Ratnesh Litoriya participated in one week Online FDP on "Data Sciences” organized by AICTE Training and Learning (ATAL) Academy, at Hindusthan College of Engineering and Technology Coimbatore, during November 2-6, 2020.
- Kunj Bihari Meena presented a research paper titled “A Deep Learning based Method for Image Splicing Detection” in 2nd International Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO)-2020, Goa, October 24-25, 2020.
- Dr. Rahul Pachauri attended online virtual global summit on “Artificial Intelligence: Responsible AI for Social Empowerment (RAISE-2020)” organized by Ministry of Electronics & Information Technology, Govt. of India, October 5-9, 2020.
- Dr. Ratnesh Litoriya participated in one week Online FDP on “Artificial Intelligence” organized by AICTE Training and Learning (ATAL) Academy, at Coimbatore Institute of Technology Coimbatore, during October 5-9, 2020.
- Dr. Rahul Pachauri attended online national FDP on "Recent Trends in Beyond 5G" organized by Ujjain Engineering College, Ujjain, during September 19-23, 2020.
- Dr. Ratnesh Litoriya delivered an expert lecture in four days online short term training program on “Blockchain and Its Application” organized by RGPV under TEQIP-III in association with Sagar Institute of Science and Technology, Bhopal on 12-15 September, 2020.
- Dr. Rahul Pachauri attended online FDP on “Internet of Things (IoT)” organized by AICTE Training and Learning (ATAL) Academy at National Institute of Technical Teachers Training and Research, MHRD, September 7-11, 2020.

### **D: Ph.D. Awarded**

- Ph.D. degree has been awarded to Mrs. Neha Jain by the University for her thesis entitled, “Analysis and Design of Intelligent Digital Image Processing Techniques for Real-Time Applications”, under the supervision of Prof. Shishir Kumar and Dr. Amit Kumar in October, 2020.

### **ELECTRONICS AND COMMUNICATION ENGINEERING**

#### **A: Publication in Journals**

- Jitendra Raghuwanshi, Amit Mishra, Narendra Singh “Combined functional link adaptive filter for nonlinear acoustic echo cancellation”, Analog Integrated Circuits and Signal Processing, DOI: 10.1007/s10470-020-01719-5, Vol.105. no.2, pp.249-262, September 2020.



**International webinar on 'Green and Sustainable Building Material and Utilization of C&D Waste' by eminent speaker Shri Ashish Sihgai (GM Customer Technical Services, JK Cement Ltd. Indore (MP) on December 05, 2020.**



**Online lecture on topic "NEP-2020: Transformation of Higher Education" by Prof. Vasudha Kamat, Member, National Educational Policy draft committee (Former Vice Chancellor, SNDT Women's University, Former Jt. Director, CIET-NCERT on December 11, 2020.**

- Pankaj Dumka, Rishika Chauhan, and Dhananjay R. Mishra "Experimental and theoretical evaluation of a conventional solar still augmented with jute covered plastic balls", Journal of Energy storage, Vol. 32, pp. 101874, September 2020.
- Manoj Kumar, M. Patidar and N. Singh "Cyclostationary Feature Detection Method for Cognitive Radio" JUET Research Journal of Science & Technology Vol. 6 no.1 & 2, pp.6-10, July 2020.

**B: Conference/Seminar/Webinar/Workshop Participated**

- Dr. Subodh Kumar Singhal and Dr. Ranu Gupta attended one week online AICTE workshop "Inculcating Universal Human Values in Technical Education", FDP sponsored by AICTE New Delhi, during December 22-26, 2020.
- Dr. Ravi Kumar attended one day workshop on "5G- Evolution, Advancements and Applications" organized by Department of ECE, Madhav Institute of Technology and Sciences on December 21, 2020.
- Dr. Shefali Sharma and Dr. Ranu Gupta attended AICTE sponsored STTP on "Research Aspects on Deep Learning in Image and Video Processing" organized by the department of Electronics and Communication, Velammal Institute of Technology, Chennai during December 14-19, 2020.
- Dr. Manish Patidar, Dr. Shefali Sharma, Dr. Ranu Gupta and Mrs. Rishika Chauhan completed an online course of one-week entitled "Satellite based navigation system", organized by IIT Indore, during November 23-28, 2020.
- All the faculty members of ECE department attended online webinar on "New Education Policy" on November 18, 2020.
- Dr. Rajesh Kumar Vishwakarma attended a one-week AICTE-ISTE approved Orientation/Refresher Programme on "Data Science Analytics and Visualization Tools" organized by Shri Shankaracharya Technical Campus, Bhilai, District Durg, Chhattisgarh during November 2-11, 2020.
- Dr. Rajesh Kumar Vishwakarma attended a one-week AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" organized by Institute of Engineering and Technology Devi Ahilya University Indore, during October 13-17, 2020.
- Dr. Ravi Kumar attended one week online short-term course on "GNSS & Space Weather" organized by IIT, Indore during September 14-19, 2020.
- Dr. Rajesh Kumar Vishwakarma attended a one-week FDP on "Recent Advances in VLSI Design & Embedded Systems (RAVDES-2020)" Hosted by Department of Electronics and Communication Engineering, K L Deemed to be University, formerly K L College of Engineering and Koneru, Lakshmaiah Education Foundation, Vijayawada, Andhra Pradesh, India during September 14-19, 2020.
- All the faculty members of ECE department attended one day webinar on "Role of Engineers in Developing Smart Cities in Indian Scenario" organized by department of ECE, JUET, Guna on September 12, 2020.
- Dr. Rajesh Kumar Vishwakarma attended online five day National Level FDP on Trends and Challenges in the Design and Implementation of Planar Antennas organized by Department of Electronics and Computer Engineering (ECM), SreeNidhi Institute of Science and Technology Hyderabad, during September 1-5, 2020.



**Induction program for first year students from September 21-30, 2020.**



**Virtual session by a renowned singer Ms. Vani Bhasin on September 24, 2020.**

- Dr. Rajesh Kumar Vishwakarma attended one week e-Faculty Development Program (e-FDP) On “Emerging Trends in Power Electronics and Power System (ETPEPS-2020)” at O P Jindal University Raigarh (CG), India during August 24-29, 2020.
- Dr. Ravi Kumar attended one day webinar on “Future Engineering Education and Research” organized by IETE Bhopal and Gwalior; IEEE M.P. Subsection and IET (India) on August 23, 2020.
- Dr. Manish Patidar completed an online course entitled "COVID-19 Contact Tracing", offered by the Johns Hopkins University, on August 17, 2020.

## MECHANICAL ENGINEERING

### A: Publication in Journals

- Kiran Kumar Sahu and Yashwant Kumar Modi, “Effect of Printing Parameters on Compressive Strength of Additively Manufactured Porous Bone Scaffolds Using Taguchi Method”, International Journal of Manufacturing, Materials, and Mechanical Engineering, Vol. 11, No. 1, pp.18-33, December 2020.
- Pankaj Dumka, Rishika Chauhan and Dhananjay R. Mishra, “Experimental and theoretical evaluation of a conventional solar still augmented with jute covered plastic balls”, Journal of Energy Storage Vol. 32, 101874, DOI: 10.1016/j.est.2020.101874, December 2020.
- Kiran Kumar Sahu and Yashwant Kumar Modi, “Process capability analysis of binder jetting 3D printing process for fabrication of calcium sulphate based porous bone scaffolds”, Australian Journal of Mechanical Engineering, DOI:10.1080/14484846.2020.1842295, December 2020.
- Girish Dutt Gautam and Dhananjay R Mishra, “Parametric Investigation in Pulsed Nd: YAG Laser Cutting of Kevlar-Basalt Fiber Composite”, Lasers in Manufacturing and Materials Processing, Vol. 7, pp. pages 373–398, December 2020.
- Dhananjay R. Mishra, “Experimental evaluation of shape factor of axis-symmetric sunken structures”, ScientiaIranica B, Vol. 27, pp. 2831-2837, December 2020.
- Rohit Mishra, Avani Kumar Upadhyay, Amneesh Singla and Yashvir Singh, “Effect of Groove Designs on Residual Stress and Transverse Shrinkage in GMAW and PGMAW of A333 Seamless Steel Pipes”, Journal of Advanced Manufacturing Systems, Vol. 19, No. 04, pp. 799-813, November 2020.
- Pankaj Gupta and Bhagat Singh, “Ensembled local mean decomposition and genetic algorithm approach to investigate tool chatter features at higher metal removal rate”, Journal of Vibration and Control, DOI: <https://doi.org/10.1177/1077546320971157>, November 6, 2020.
- Pankaj Gupta and Bhagat Singh, “Local mean decomposition and artificial neural network approach to mitigate tool chatter and improve material removal rate in turning operation”, Applied Soft Computing, Vol. 96, 106714, DOI: <https://doi.org/10.1016/j.asoc.2020.106714>, November 2020,
- Yogesh Shrivastava and Bhagat Singh, “Tool chatter prediction based on empirical mode decomposition and response surface methodology”, Measurement, Elsevier, October 2020. DOI: <https://doi.org/10.1016/j.measurement.2020.108585>, October 2020.





**Vigilance Awareness Week 2020**

- Mayank Sharma, Anil Kr. Tiwari, Dhananjay R. Mishra, “Experimental Evaluation and Theoretical Analysis of the Long Stills Covered with the GI, Cu and Al Sheets”, FME Transactions, Vol. 48, pp. 931-937, October 2020.
- Pankaj Dumka, Dhananjay R. Mishra, “Experimental investigation and thermal analysis of a double slope long still: Study of heat and mass transfer”, International Journal of Ambient Energy, DOI: 10.1080/01430750.2020.1818128, September 2020.
- Manoj Dubey and Dhananjay R. Mishra, “Thermo-exergo-economic analysis of double slope solar still augmented with ferrite ring magnets and GI sheet”, Desalination and Water Treatment, Vol. 198, pp. 19-30, September 2020.
- Yashwant Kumar Modi and Navneet Khare, “Patient-specific polyamide wrist splint using reverse engineering and selective laser sintering”, Materials Technology, DOI: 10.1080/10667857.2020.1810926, August 2020.

**B: Conference/Seminar/Webinars/Workshop Participated**

- All the faculty members of the department attended online webinar on “New Education Policy” on November 18, 2020.
- Dr. Amit Sharma and Dr. Yashwant Kumar Modi attended one day workshop (Webinar) on “Social Entrepreneurship Swachhta & Rural Engagement” organized by Mahatma Gandhi National Council of Rural Education, Hyderabad and JUET, Guna on October 23, 2020.
- Dr. Yashwant Kumar Modi delivered an online expert Lecture on “Biomedical Application of 3D Printing”, in AICTE Training and Learning (ATAL) Academy sponsored Faculty Development Programme organized by IPS Academy, Institute of Engineering and Science, Indore (M.P.) on October 09, 2020.
- All the faculty members of the department attended expert talk by Prof. Lance Fung on “4 IR and emerging technology” on August 28, 2020.
- Dr. Yashwant Kumar Modi attended webinar on “National Education Policy- 2020” organized by Govt. S V Polytechnic College in association with Bhartiya Shikshan Mandal on August 24, 2020.
- Dr. Yashwant Kumar Modi attended webinar on “Stem Cells and their harvesting for 3D bioprinting”, delivered by Prof. Ravi Dwivedi, MANIT, Bhopal on August 23, 2020.
- All faculty members of the department attended lecture on “Examination Reforms in Higher Education” delivered by Dr. Neeraj Saxena, Advisor , AICTE, New Delhi, on August 21, 2020.

**C: Conferences/Seminars/Webinars/Workshops organized**

SAE Club of the department organised following webinars for the students. All the speakers were alumni of the department.

- Mr. Gautam Mishra (Er. No. 111635), State Head Zomato, UP, delivered webinar on “Marketing and sales” on December 12, 2020.
- Dr. Girish Dutt Gautam (153202), Associate Professor, MIET, Noida shared his views on “Firefly Algorithm based optimization” on December 05, 2020.



**Virtual session by Ms. Maherra Desai, Clinical Psychologist, Medical Researcher on September 29, 2020.**



**Alumni Meet 2021 on January 29, 2021.**

- Mr. Parvez Alam (141783), senior technical recruiter, Collabera, expressed his opinion on “Staffing and Recruitment” on November 28, 2020.
- Mr. Aditya Verma (151807) delivered a webinar on “Aerospace Industry” on November 21, 2020.
- Mr. Rajat Bisht (151858) expressed his opinion on “Becoming Industry Ready” on November 14, 2020.

**D: PhD Awarded**

- Ph.D. degree has been awarded to Mr. Kedari Lal Dhaker by the University for his thesis entitled, “Investigation of optimal parameters for laser trepan drilling of Inconel-718”, under the supervision of Dr. Bhagat Singh in November, 2020.

**CHEMISTRY**

**A: Publication in Journals**

- Naveen Kumar and Rashmi Tyagi, “Various impacts of COVID-19 on environmental pollution”, International Journal of Human Capital in Urban Management, Vol. 06, No. 01, pp. 01-10, January 2021.

**B: Ph.D. Awarded**

- Ph.D. degree has been awarded to Mrs. Deepal Agrawal by the University for her thesis entitled “Syntheses of Early Transition metal based Post Metallocene Catalysts for Aqueous Emulsion Polymerization Application” under the joint supervision of Prof P K Singh and Dr Sudip De in November 2020.

**HUMANITIES AND SOCIAL SCIENCES**

**A. Publication in Journals**

- Rachna Chaturvedi, “Digitization: A Prerequisite for women empowerment”, International journal of Advances in management and Economics, vol 10, No. 1, pp 19-25, January 2021
- Jyoti Rathore and Vikram Singh Chouhan, “Employee Job satisfaction and Its Antecedents”, Journal of Critical Reviews, vol. 7, No. 07, pp-2009-2026.
- Jyoti Rathore and Vikram Singh Chouhan, “An Empirical Study of Factor Affecting Employee Job Satisfaction & Their Influence on The Organization in the Context of Educational Institutions in Kota (Rajasthan)”, Solid State Technology, vol. 63, No.2s, pp-6848-6863.
- Vikram Singh Chouhan and Sandeep Srivastava, “Competency Mapping and Training Needs Assessment in the Context of Indian Manufacturing Industry”, International Journal of Management (IJM), Vol. 11, No. 9, pp-678-687.

**B: Conference/Seminar/Webinar/Workshop Participated**

- Dr. Rachna Chaturvedi, Dr. Abhishek Shukla and Dr. Vikram Singh Chouhan participated and successfully completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from December 22-26, 2020.
- Dr. Abhishek Shukla attended a one day workshop on "Copyrights in India" organized by Turnip Innovation on November 20, 2020.



**Media coverage@JUET, GUNA**





**Virtual session by Air Vice Marshal Dr. Ajit Tyagi (Retd.) on September 25, 2020.**



**A webinar on the topic 'Presentation Skills' organized by Jaypee University of Engineering & Technology, Guna in collaboration with Computer Society of India and Cambridge assessment English, UK.**

- Dr. Kamini Bhasin attended a webinar on “Developing Productive Skills” conducted by Cambridge Assessment English on October 29, 2020.
- Dr. Rachna Chaturvedi and Dr. Vikram Singh Chouhan attended One Day Workshop (Webinar) on “Social Entrepreneurship Swachhta & Rural Engagement” organized by Mahatma Gandhi National Council of Rural Education, Hyderabad and JUET, Guna on October 23, 2020.
- Dr. Neeraj Jain and Dr. Kamini Bhasin attended a webinar on Developing Receptive skills (Reading and Listening) conducted by Cambridge Assessment on October 22, 2020.
- Dr. Rachna Chaturvedi, Dr. Abhishek Shukla and Dr. Kamini Bhasin participated in a nine days national webinar series on “Vedic Foundations of Indian Management” Organized by Vedic Foundations of Indian Management (A unit of ISOL Research Foundation) during October 01-10, 2020
- Dr. Abhishek Shukla attended a five days workshop on "Design Thinking" organized by AICTE during September 7-11, 2020.
- Dr. Vikram Singh Chouhan attended online workshop on “Big Data Analytics with Google Big Query” conducted by Turnip Innovations Pvt. Ltd. on August 25, 2020.
- Dr. Vikram Singh Chouhan completed a course “Organizational Behaviour” offered through SWAYAM/NPTEL coordinated by IIT Hyderabad, India.
- Dr. Neeraj Jain attended FDP lecture series on “Guru Dakshata” organized by Jaypee University of Engineering & Technology, Guna during August 2020 to December, 2020.

**C: Conferences/Seminars/Webinar/Workshops organized**

- Dr. Rachna Chaturvedi organized one day workshop on “Digital education in the vicinity of Guna district” on December 26, 2020.
- Dr. Abhishek Shukla organized a one day workshop on “Business analyst and data visualization” on December 17, 2020.

**D: Student’s Activities**

- Dr. Abhishek Shukla organized an event ‘Capture and share happy Moments with JUET’ for alumni during December 25, 2020 to January 5, 2021.

**MATHEMATICS**

**A: Publication in Journals**

- Aakanksha Singhal, D.K. Sharma, “Generalized ‘Useful’ Renyi & Tsallis Information Measures, Some Discussions with Application to Rainfall Data”, International Journal of Grid and Distributed Computing, Vol. 13, No.2, pp. 681-688, November 2020.
- Arunodaya Raj Mishra, Pratibha Rani, Abbas Mardani, Reetu Kumari, D.K. Sharma and Edmundas Kazimieras Zavadskas, “An Extended Shapley TODIM Approach Using Novel Exponential Fuzzy Divergence Measures for Multi-Criteria Service Quality in Vehicle Insurance Firms”, Journal of Mathematical Inequalities, Symmetry, Vol. 12, No.9, pp.1-19, September 2020.



**A session on  
“Examination reforms in  
higher education” by Dr.  
Neeraj Saxena, Advisor,  
AICTE, NEW Delhi on  
August 21, 2020.**



**An expert lecture on  
NEP-2020 by Prof. K. K.  
Aggarwal, Chairman,  
National Board of  
Accreditation on October  
29, 2020.**

### **B: Publication of Book Chapter**

- D.K. Sharma and Rajnee Tripathi “Intuitionistic Fuzzy Trigonometric Distance and Similarity Measure and their Properties” in Soft Computing Techniques in Engineering Sciences, Walter De Gruyter, Germany, eISBN: 9783110628616, August 2020.

### **C: Conference/Seminar/Webinar/Workshop Participated**

- Dr. D. K. Sharma attended AICTE-ISTE Sponsored one week induction programme on “Role of ICT in Teaching-Learning Process” organized by Department of Information Technology, Sanjivani College of Engineering, Kopergaon, Maharashtra from December 14-19, 2020.
- Dr. D.K. Sharma attended AICTE sponsored one week STTP on Green Internet of Things (Phase-III) organized by Department of E&T in collaboration with Department of Electronics and Instrumentation, Vivekanand Education Society’s Institute of Technology Hashu Advani Memorial Complex, Chembur, Mumbai-74 during December 7-12, 2020.
- Dr. Bali Ram Gupta participated in the TEQIP-III sponsored one week online short term course on “Computational methods and analysis for engineers” conducted by Dr. B.R. Ambedkar NIT Jalandhar during November 18-22, 2020.
- Dr. D.K. Sharma attended two days virtual “Young Professionals Global Summit 2020” organised by IEEE Young Professionals Bangalore Section and IEEE Bangalore Section under the aegis of Bangalore Technology Conclave (BTC) during November 6-7, 2020.
- Dr. D.K. Sharma attended “IEEE Region 10 Sponsored Conference Organizers Education Workshop (COEW)” organized by IEEE Bangalore Section and IEEE Mangalore Sub-Section on October 17, 2020.
- Dr. D. K. Sharma attended “IEEE DAY WEBINAR SERIES” organized by GSSSIETW IEEE Student Branch in association with IEEE Bangalore Section and CAS Bangalore chapter during October 5-9, 2020.
- Dr. Bali Ram Gupta attended the virtual global summit on “Artificial intelligence: Responsible AI for social empowerment (RAISE2020)” conducted by Ministry of Electronics and IT, Gov. of India during October 5-9, 2020.
- Dr. Bali Ram Gupta participated in the short term course on “Differential equations: solutions techniques and applications” conducted by IIT, Guwahati under the QIP sponsored by AICTE during September 7-12, 2020.

### **D: Conferences/Seminars/Workshops Organized**

- Department organized Mathematics Quiz, Poster and Origami making competitions for school children on occasion of National Mathematics Day supported by National Council for Science and Technology Communication, DST, New Delhi and MPCST, Bhopal on December 26 and 27, 2020. Dr. D.K. Sharma, Dr. Bali Ram Gupta and Dr. Divya Jain coordinated various events.





**An online lecture on topic "Graph Model for Cyber Security" delivered by Prof. Sheng-Lung Peng" on October 09, 2020.**



**Talk by Eminent personality Prof. A. K. Nayak, IPP, CSI on September 29, 2020.**

### TRAINING AND PLACEMENT ACTIVITIES

- More than 50 in-campus recruitment companies have visited and around 5 off-campus recruitment opportunities provided for 2020 batch. Recruitment process by companies like AMAZON, GOOGLE, ZS Associates, Infosys Ltd., Cognizant Technology Solutions, Ericsson India, Wipro Ltd., TATA Consulting Service Ltd., DXC Technologies Ltd., Accolite Software Pvt. Ltd., HashedIn Technologies, Kuliza Technologies, TestBook, Hitachi Consulting Corporation, Kritikal Vision (Solutions), Rockwell Automation Inc., Icertis, Covaim, Delhivery, JTG, WatchGuard Technologies, Code Nation, Infoedge, NCR Corporation India Ltd., GreyB, Thales Group, Adobe, eLitmus, Schneider, Zycus, Intuit, Zop Smart Technologies, Jaro Education, ClearTrail Technologies, ArgilDx, LeadSquared, Poorna Technologies, Tenovia, Lido, NTT Data, Vector Technologies, Medhasvi, Plante Spark, Squad IQ, Smart Serve was conducted. Major highlights of placement are:
  - CSE student Yukti Swaroop received highest package of 27.83 Lakhs/PA by AMAZON.
  - CSE student Tanish Singh received 2nd highest package of 21.00 Lakhs/PA by The Bank of New York Mellon Corporation.
  - ECE student Sumit Tripathi received package of 10.00 Lakhs/PA by TechhiMax.
  - CSE students Sachinam Shrivastava, Abhinav Parmar, Kartik Agarwal, Mrityunjay Pandey and Piyush Jain received package of 8.00 Lakhs/PA by Infosys.
  - CSE student Sunidhi Batra received package of 8.00 Lakhs/PA by Hashedin Technologies.
  - CSE students Abhijay Ghosh, Mohit K Shivhare, Soumya Makhija and Sunidhi Batra received package of 8.00 Lakhs/PA by ZopSmart Technologies.
  - CSE student Shakshi Saxena received package of 8.00 Lakhs/PA by Delhivery.
  - CSE student Divyanshu Dubey received package of 8.00 Lakhs/PA by TATA Consulting Service Ltd.
  - CSE students Yukti Swaroop, Prakhar Pandey, Prashant Singh, Kartik Agarwal and Kirti Tyagi received package of 7.00 Lakhs/PA by Testbook.
  - CSE students Suvansh Agarwal and Piyush Khandelwal received package of 7.00 Lakhs/PA by Kuliza.
  - ECE student Sumit Tripathi received package of 7.00 Lakhs/PA by Kritikal Vision (Solutions).
  - CSE students Anant Srivastava, Manuj Verma, Prajjwal Agarwal, Rohit Lovewanshi and Sahil Sharma received package of 7.00 Lakhs/PA by Cognizant Technology Solutions.
  - 20 companies offered package above 6.00 Lakhs/PA CTC.
  - Overall placement percentage offer wise is 112.43%.
  - 62 Students are placed in more than one company.
  - Average package offered to students is approx. 4.96 Lakhs/PA.
  - 159 students have been offered CTC 4.00 Lakhs/PA and above.



**Floral tribute to Gandhi ji & Shastri ji on October 02, 2020 at JUET, Guna.**

## LEARNING RESOURCE CENTRE (LRC)

- Sanitization gate installed at the entrance of the LRC.
- Five hundred seventy two (572) volumes of gifted books and 56 new project reports in digital form have been added to LRC.

## APPOINTMENTS

- Dr. Mukesh Chandra, Assistant Professor (G-II) joined department of Physics, Mr. Tasnim Arif, Assistant Professor (G-II) and Mr. Ram Kumar, Assistant Professor (G-I) joined department of Mechanical Engineering on September 01, 2020.
- Shri Manvedra Singh and Shri Suraj Prasad Bajoliya joined department of Civil Engineering and department of Electronics and Communication Engineering as Lab assistant on September 01, 2020.
- Shri Ramsevak Baghel joined JUET Medical Centre as Jr. Nurse on November 01, 2020.

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**A session on 'Online Teaching Learning' by Prof. Aparajita Ojha, Chief Investigator EICT Academy, Professor (CSE), PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur on August 14, 2020.**