



### Contents

- Days of National Importance Celebration
- Interaction by Honourable Vice Chancellor
- Important Academic Events
- University Achievement
- Publication of University Journal
- Green Champion Award
- TOYCATHON-2021
- COVID-19 Pandemic Update
- National Academic Depository (NAD)
- Awards / Honours / Recognition
- Alumni Achievements
- Achievements - (Department-wise)
- Training & Placement Activities
- JUET Youth Club (JYC)
- Learning Resource Centre (LRC)
- Promotions & Appointments

### Editorial Board

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

### Contact:

[contact@juet.ac.in](mailto:contact@juet.ac.in)

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### DAYS OF NATIONAL IMPORTANCE CELEBRATION

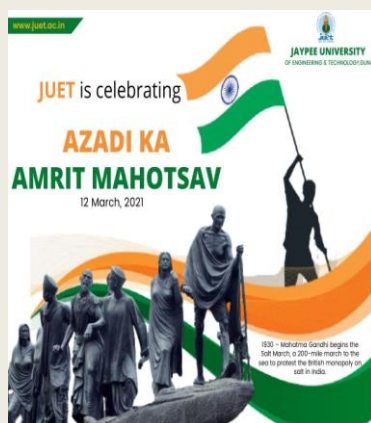
- International Yoga Day was celebrated on June 21, 2021 in Tagore Hall with social distancing and practicing all precautionary measures against pandemic for faculty and staff members. Students joined the celebration online via Google meet.
- World No Tobacco Day was celebrated on May 31, 2021. An Oath to stay away from tobacco was taken by faculty and staff members. Online messages were also circulated to spread awareness about **dangers** of using **tobacco**.
- Azadi Ka Amrit Mahotsav has been inaugurated on March 12, 2021 and the Mahotsav will continue up to August 15, 2023. On this occasion, online events were organized including talk by Dr. Rajneesh Atre on Indian Cinema and Independence movement and songs by students.
- National Science Day was celebrated by organizing various activities in online mode. Science Quiz and poster competition on theme "Science in everyday life/nature" for school students and webinars by eminent persons were organized with support of National Council for Science and Technology Communication, DST, New Delhi and MP Council of Science and Technology, Bhopal during March 05 - 06, 2021.

### INTERACTION BY VICE CHANCELLOR

- Prof. J. S. P. Rai, Vice Chancellor of the University interacted with faculty members on June 03, 2021.

### IMPORTANT ACADEMIC EVENTS

- Mr Sankalp Singh, Data Science Manager with Citi Bank, Bangalore visited the campus and interacted with faculty members of Department on July 31, 2021.
- Mrs. Neha Singh, SAP solution Manager with Royal Dutch Shell, Bangalore visited the campus and interacted with faculty members of Department on July 31, 2021.
- Mr Vikalp Singh, Director Technology, Free Charge, Gurugram visited the campus and interacted with faculty members of Department on July 31, 2021.
- Mrs. Sonia Singh, Recruiting Manager-Leegality, Gurugram visited the campus and interacted with faculty members of Department on July 31, 2021.
- Prof. Pankaj Jalote, distinguished Professor and Founding Director IIIT, Delhi delivered a webinar on "Building Research Universities" for faculty members of the University on March 18, 2021.
- The seventh meeting of IQAC (Internal Quality Assurance Cell) was held on March 10, 2021.



**Azadi Ka Amrit Mahotsav**



**Vice Chancellor receiving  
“Green Champion Institution”  
Award from District Collector  
Guna**



**Media Coverage:  
“Green Champion Institution”  
award by MGNCRE, Union  
Ministry of Education, GOI**

- Prof. D. K. Rai, Dean (A) JIIT, Noida, delivered a session on occasion of National Science day on March 6, 2021.
- Prof. L. N. Singh, Director (R&C) & Head, Dept. of Physics, DBA Tech. University, Lonere delivered invited talk on occasion of National Science day on March 5, 2021.
- Mr. Amit Pandey, Chief Executive Officer, Pinnacle Capital Solutions Pvt. Ltd., delivered a motivational session for students on March 5, 2021.
- Prof. J. S. P. Rai, Vice Chancellor, JUET, Guna attended 98th and 99th meeting of University Coordination Committee of all Universities organized by Govt. of MP on February 21 and July 13, 2021.
- Prof. J. S. P. Rai, Vice Chancellor, JUET, Guna attended Chancellors’ meeting hosted by Department of Higher Education, Bhopal on February 17, 2021.
- Shri K. R. Dehariya, Principal, Govt. Polytechnic, Raghogarh and Govt Nodal Officer (SC/ST/OBC scholarship) visited the campus on February 10, 2021.
- CFC attended Universities Fee Fixation Committee Meeting at MPPURC, Bhopal on February 04, 2021. Prof. Vipin Tyagi & Shri Digvijay Singh Chauhan interacted with MPPURC Officials.

**UNIVERSITY ACHIEVEMENT**

- The University is selected as a nodal center of Swayam-NPTEL, an initiative by Ministry of Education, Govt. Of India.  
<https://nptel.ac.in/LocalChapter/statistics/4317/>
- The University is now a part of IRINS (Indian Research Information Network System), by the Information and Library Network (INFLIBNET).

**PUBLICATION OF UNIVERSITY JOURNAL**

- A special issue of Vol. 6 of JUET Research Journal of Science and Technology (Biannual International Research Journal) has been published by Publishing India Group.

**GREEN CHAMPION AWARD**

- JUET Guna has been declared Green Champion Institution by Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India in July 2021. The recognition of Green Champion Institution is given for Swachhta Action Plan and Green Campus Initiative.

**TOYCATHON-2021**

- The University was selected by MHRD’s Innovation Cell (MIC) and AICTE for hosting Grand Finale of Toycathon-2021, an event conducted by Govt. of India to promote indigenous toy industry. Toycathon-2021 was organized during June 22 to 24, 2021 jointly by Ministry of Education in coordination with five other Ministries viz: Ministry of Women and Child Development (MWCD), Ministry of Information and Broadcasting, Ministry of Commerce & Industry, Ministry of Small and Medium Enterprises, and Ministry of Textiles. Hon’ble Prime Minister Shri Narendra Modi has also interacted with participants on June 24, 2021.

**COVID-19 PANDEMIC UPDATE**

- The second wave of COVID-19, severely affected the district and CORONA ‘Curfew’ was enforced by civil administration from April 15, 2021 to May 31, 2021. All precautions were taken by JUET residents inside the campus and restricted the external movement. 10 employees were infected and recovered in due course. Online teaching process was conducted without interruption. Concentrated efforts for vaccination have been taken and more than 80% have taken the first dose and 20% have taken both doses of the vaccine.



**NATIONAL ACADEMIC DEPOSITORY (NAD)**

NAD is an initiative of Ministry of Education, Govt. of India, UGC and academic institutions such as JUET. NAD through the Digilocker repository ensures central storage, digital issue and access of verified degree to students / alumni for any future need such as employment, higher education and loan. In a major achievement, final degree certificate of all passed out students of JUET from 2011 to 2020 batches have been uploaded and can be accessed from NAD digilocker system.

**AWARDS/HONOURS/RECOGNITION**

- Dr. Ratnesh Litoriya was appointed as an examiner to conduct the final Viva-voce examination of Ph.D. Scholar in CSE department of Shri JIT University in July, 2021.
- Dr. Ratnesh Litoriya was selected and invited as evaluator for the Toycathon-2021 Grand Finale, organized by the Ministry of Education's Innovation Cell and AICTE from June 22-24, 2021.
- Dr. Rajesh Kumar Vishwakarma has been elected reviewer in The Hertz Journal of Engineering on June 9, 2021.
- Dr. Ravi Kumar was elected as the member of organizing committee in ISF Zonal Seminar & ISF Congress in Virtual Mode on "Next Generation Communication System", May 16-17, 2021.
- Dr. Ratnesh Litoriya was invited as a special invitee to conduct the RDC (Research degree committee) of various PhD scholars in the CSE department of Sardar Patel University, Balaghat (M.P.) in May, 2021.
- Dr. Dinesh Kumar Verma, Dr. Prateek Pandey, and Dr. Neelesh Jain chaired a session in 5th International Conference on Advances in Computing and Data Science, organized by Thakre College of Engineering, Nashik, Maharashtra during April 23-24, 2021.
- Dr Mahesh Kumar and Dr Pankaj Dumka on behalf of Online Education Cell organized an online lecture for JUET, JIITU, JUIT faculty members on "Teaching learning process and effective online teaching". The Lecture was delivered by Dr. U. S. Sahu, Associate Professor, NITTTR Hyderabad on April 17, 2021.
- Dr. Dilip Kumar Sharma became senior member of IEEE, Madhya Pradesh Sub Section- R-10, Asia and Pacific in April, 2021.
- Dr. Yashwant Kumar Modi was appointed as Co-Chair, National Collaboration for 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 March 6-7, 2021.

**ALUMNI ACHIEVEMENTS**

- Mr. Anoop Keshari, alumnus of B.Tech ME, batch 2016-20 obtained AIR-142 (Engg. Sc.) and AIR-669 (Mech. Engg) in GATE 2021 and received admission offer for M.Tech by IIT Madras.
- Mr. Shivam Mishra, alumnus of B.Tech ME, batch 2016-20 obtained AIR-226 (Engg. Sc.) and AIR-235 (Mech. Engg.) and received admission offer for M.Tech by IISc Bangalore.
- Mr. Nishant Sharma, alumnus of B.Tech ME, batch 2015-19 has been offered admission to Ph.D. by IISc Bangalore.
- Mr. Faizan Mohd, alumnus of B.Tech. ME, batch 2014-2018, has been offered admission to Indian Institute of Management (IIM), Lucknow for 2023 PGP batch.
- Mr. Veer Chauhan, alumnus of B.Tech ECE, batch 2013-17 is promoted to Senior Business Analyst (Data Science Implementations) at Tredence Inc.
- Mr. Anukalp Goel, alumnus of B.Tech ME, batch 2013-17 completed M.S. from University of Toronto.
- Mr. Abhishek Singh, alumnus of B.Tech. ME, batch 2013-17 is promoted as Account Specialist - Client Servicing, at Logicserve Digital, New Delhi, India.



**Media coverage: TOYCATHON-2021**



**Members of Core Team, TOYCATHON-2021**



**IQAC Meeting held on March 10, 2021**



**JUET Alumni are working in  
Top 100 Companies  
worldwide  
(List according to Forbes  
Global-2000, 2020)**



**Mr. Anuj Tiwari, alumnus of  
ECE Dept. (2007-11 batch)  
authored two books titled:**  
▪ **“It’s not Right but it’s Okay”  
, and**  
▪ **“I Tag her in my Heart”**

- Mr. Apurv Vats, alumnus of B.Tech ECE, batch 2013-17 has started a new position as Business Operation Analyst at Adobe.
- Mr. Ashutosh Tripathi, alumnus of B.Tech ECE batch 2013-17 joined Accenture, Lucknow as Application Development Analyst.
- Ms. Darshika Agarwal, alumna of B.Tech CE, batch 2012-16 received prestigious Jawaid Haider award for designing excellence in Masters studies for her thesis titled “Designing Resiliency for Perennial Flooding: The case of Majuli at Penn state University, US.
- Mr. Hardik Gupta, alumnus of B.Tech. MEC, batch 2012-16, is promoted as Director at Pitambra Hydrofix Private Limited, Jhansi, India.
- Mr. Santosh Kumar Rathor, alumnus of B.Tech. MEC, batch 2012-16 received Master of Science from University of Illinois, Chicago, USA.
- Mr. Kashish Jain, alumnus of B.Tech. MEC, batch 2012-16 is promoted as Senior Engineer in Nagarro, Pune, India.
- Mr. Naresh Kumar Mandal, alumnus of B.Tech ECE, batch 2011-15 joined IBM, Pune as Senior SAP MM Consultant.
- Mr. Pallav Dhiman, alumnus of B.Tech ECE, batch 2011-15 has joined State Bank of India, Delhi as Probationary Officer.
- Ms. Sandal Sharma, alumna of B.Tech ECE, batch 2010-14 joined Tata Consultancy Services, Pune as Information Technology Analyst.
- Mr. Ankit Goyal, alumnus of B.Tech ECE, batch 2010-14 is promoted to SAP Basis Consultant at Capgemini.
- Mr. Anuj Tiwari, alumnus of B.Tech ECE, batch 2007-11 authored two books titled, “It’s not Right but it’s Okay”, and “I Tag her in my Heart” .

## ACHIEVEMENTS (FACULTY WISE)

### FACULTY OF ENGINEERING

#### CHEMICAL ENGINEERING

##### A: Publication in Journals

- T. K. Bharadwaj and K. N. Gupta, “Foam drainage enhancement in foam fractionation for dye removal: process optimization by Taguchi methodology and grey relational analysis”, International Journal of Chemical Reactor Engineering, DOI: <https://doi.org/10.1515/ijcre-2020-0234>, February 2021.

##### B: Publication in Conference Proceedings

- Rahul Shrivastava, "Comparative study of boosting and bagging based methods for fault detection in a chemical process", International Conference on Artificial Intelligence and Smart Systems (ICAIS-2021), pp. 674-79, DOI:10.1109/ICAIS50930.2021.9395905.

##### C: Conference/Seminar/Webinars/Workshop Participated

- Dr. Rahul Shrivastava participated in three-day workshop on "Future of Chemical Engineering" organized by the Department of Chemical Engineering, IIT (ISM) Dhanbad and IChE, Dhanbad Regional Center during March 19 - 21, 2021.
- Prof. P. K. Singh delivered a webinar on the topic “Raw Mix Design in Cement Manufacture” organized by Confederation of Indian Industries, Hyderabad on March 10, 2021.

##### D: Consultancy

- Prof. P. K. Singh is providing consultancy services to: 1) DCM Shriram Cement, Kota, Raj. in following areas: a) Improvement in consistency and compressive strength of cement, b) Utilization of hazardous wastes as alternative fuel, and 2) JP Group for putting up a 3.0 lakh ton per annum wall putty plant.

##### E: BOS Meeting

- Ninth BOS meeting of the department was held on June 18, 2021 in online mode.





**International Yoga Day  
Celebration  
June 21, 2021**



**A webinar on "Building  
Research Universities in  
India" by eminent personality  
Prof. Pankaj Jalote, IIT, New  
Delhi**

**CIVIL ENGINEERING**

**A: Publication in Journals**

- Verma A., Babu V.S., and Arunachalam S. "Strength and Durability Properties of Treated Recycled Aggregate Concrete by Soaking and Mechanical Grinding Method: Influence of Processing Technique." Journal of Materials in Civil Engineering. DOI: 10.1061/(ASCE)MT.1943-5533.0003908.

**B: Publication in Conference Proceedings**

- Goswami S., Shukla D.K. and Singh P.K., "Technical Evaluation of Sustainable Cement Containing Fly Ash and Carbide Lime Sludge", IOP Conference Series: Earth and Environmental Science, 795(2021) 012040, DOI:10.1088/1755-13/795/1/012040. March, 2021.
- Verma A., Babu V.S, and Arunachalam S. "Characterization of recycled aggregate by the combined method: Acid soaking and mechanical grinding technique." Materials Today Proceedings, DOI: <https://doi.org/10.1016/j.matpr.2021.01.842>. March 2021.

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

- Dr. Sumit Gandhi attended UBA (Unnat Bharat Abhiyan) e-Workshop on "Water Quantity and Quality Conservation" conducted by IIT Kharagpur during July 28-30, 2021.
- Dr. Sumit Gandhi and Dr. N.K. Samaiya attended Short Term Course on "MATLAB Applications in Civil & Electrical Engineering" conducted by NITTR, Chandigarh during July 26-30, 2021.
- Dr. Sumit Gandhi participated in National Workshop on "Water Budgeting: An Approach for Sustainable Water Resources Management in Rajasthan", organized by AICRP on IWM, Directorate of Research, MPUAT Udaipur, Rajasthan on June 21, 2021.
- Dr. Nitin Kumar Samaiya attended webinar on "Sustainability: Eco-centric concerns", organized by Presidency University, Bangalore, on June 07, 2021.
- Mr. Abhishek Verma attended one-week Faculty Development Program on "Advanced Applications of Structural Concrete in Civil Engineering", organized by Department of Civil Engineering, K L Deemed to be University, during June 7-12, 2021
- Mr. Ravindra Goliya attended a one-day webinar on "Sustainable Bridges - Policy issues in Design, Construction & Health Monitoring of Bridges, organized by Indian Institution of Bridge Engineers on June 04, 2021.
- Dr. Nitin Kumar Samaiya contributed as reviewer in 1st International Conference on Construction Materials and Development (ICCME 2021), organized by JUIT, Wagnaghat and Indian Geotechnical Society, during June 03-04, 2021.
- Mr. Ravindra Goliya attended a one-day webinar on "Health Monitoring of Structures - 'Tandrust Concrete', organized by Indian Concrete Institute on May 28, 2021.
- Dr. Nitin Kumar Samaiya attended international webinar on "Infrastructure development and opportunities for engineering graduates", organized by Jaypee University of Engineering and Technology, Guna, on May 22, 2021.
- Dr. Nitin Kumar Samaiya attended international webinar on "Geopolymer concrete", organized by Indian Concrete Institute and SRM Institute of Science and Technology, Chennai, on April 09, 2021.
- Dr. Nitin Kumar Samaiya attended webinar on "Smart cities GOIL A multidisciplinary aspects of Civil Engineering", organized by Jaypee University of Engineering and Technology, Guna, on March 27, 2021.
- Dr. Sumit Gandhi and Dr. Yogesh Iyer Murthy attended Online International Conference on Community Based Research and Innovations in Civil Engineering during March 18-19, 2021.
- Mr. Abhishek Verma attended the "Virtual Conference on Disaster Risk Reduction-Civil Engineering for a Disaster Resilient Society", organized by NIT, Surathkal and NIDM during March 15-20, 2021.



**Students' Startup:  
Note taking app "TakeNotes"  
developed by JUET students**



**Mr. Balaji G. (B.Tech. 3rd year, CSE) qualified GSOC 2021 with stipend of Rs-108000/-**

- Prof. S. Arunachalam attended an international webinar on “Wind Code Developments-- Euro-Code on Wind Loads”, organized by International Association for Wind Engineering and University of Birmingham, UK, February 13, 2021.

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

- An International webinar was organized on “Application of 3D printing technology in civil Engineering”, on March 06, 2021. The talk was delivered by Dr. Yashwant Kumar Modi, Assistant Professor, JUET, Guna, (M.P.). Mr. Abhishek Verma coordinated the webinar.

**E: Ph.D. Awarded**

- Ph.D. degree has been awarded to Mr. Yogesh Iyer Murthy for his thesis entitled, “Corrosion Mitigation of Structures Using Magnesium Alloys as Sacrificial Anodes”, under the supervision of Dr. Sumit Gandhi and Dr. Abhishek Kumar on March 01, 2021.

**F: Students Achievements**

- Hridesh Kumar Trivedi (171D003), Nikita Choudhari (171D013) of B.Tech. IV year and Pratyush Singh (181D006) of B. Tech. III year qualified GATE 2021.
- Ashish Singh (181D002) from B.Tech III year qualified for Zonal pre-finals from central India in “UltraTech IndiaNext Stimulus”. He is now shortlisted for the zonal pre-finals based on previous two rounds among 250 students from central India. He will be quizzing with the decorated quizmaster Mr. Giri Balasubramaniam during these pre-final & final rounds. The Zonal & National Finals will be telecasted live across India.

**G: BOS Meeting**

- Ninth BOS meeting of the department was held on February 02, 2021.
- Tenth BOS meeting of the department was held on July 07, 2021.

**COMPUTER SCIENCE AND ENGINEERING**

**A: Publication in Journals**

- Prateek Pandey and Ratnesh Litoriya, "Technology intervention for preventing COVID-19 outbreak", Information Technology & People, vol. 34, No. 4, pp. 1233-1251, May 2021.
- Prateek Pandey and Ratnesh Litoriya, “Securing E-health Networks from Counterfeit Medicine Penetration Using Blockchain”. Wireless Personal Communications, vol. 117, pp. 7–25. March 2021.
- Prateek Pandey and Ratnesh Litoriya, “Software process selection system based on multicriteria decision making,” Journal of Software: Evolution and Process, Vol. 33, No. 2, pp. e2305. February, 2021.
- Nileshkumar Patel, Shishir Kumar and S. K. Singh, "Energy and Collision Aware WSN Routing Protocol for Sustainable and Intelligent IoT Applications," IEEE Sensors Journal, DOI: 10.1109/JSEN.2021.3076192.
- Subodh Singhal, Sujit Patel, Anurag Mahajan, Gaurav Saxena, “Area-Delay Efficient Radix-4 8x8 Booth Multiplier for DSP Applications” Turkish Journal Electrical Engineering & Computer Science. Vol. 29, No. 4, pp. 2012-2028, 2021.

**B: Publication in Conference proceedings**

- Mishra Kanderp Narayan, Shishir Kumar, and Nileshkumar R Patel "Survey on Internet of Things and its Application in Agriculture." Journal of Physics: Conference Series 1714 (2021), pp. 012025, DOI: doi:10.1088/1742-6596/1714/1/012025, March 2021.
- Deepika Singh Kushwaha, Mahesh Kumar and Lal Pratap Verma, “Analyzing Reliable Transport Layer Protocol Performance”, Journal of Physics: Conference Series 1714 (2021), pp. 012025, DOI: doi:10.1088/1742-6596/1714/1/012040, March 2021.

**C: Publication of Book Chapters**

- Arpit Verma, Sharif Nawaz, Shubham Kumar Singh, Prateek Pandey, "Importance of 5G-Enabled IoT for Industrial Automation" in Blockchain for 5G-Enabled IoT-The new wave for Industrial Automation, Chapter 18, Print ISBN: 978-3-030-67489-2, April 2021 .
- Ratnesh Litoriya, Abhik Gulati, Murari Yadav, Ramveer S. Ghosh, and Prateek Pandey, "Social, Ethical, and Regulatory Issues of Fog Computing in Healthcare 4.0 Applications," in Fog Computing for Healthcare 4.0 Environments, Springer, Cham, pp. 593-609, DOI: 10.1007/978-3-030-46197-3\_23, March 2021.
- Narendra Sharma, Ratnesh Litoriya, and Akhilesh Sharma, "Application and Analysis of K-Means Algorithms on a Decision Support Framework for Municipal Solid Waste Management," in Advanced Machine Learning Technologies and Applications. Advances in Intelligent Systems and Computing, H. A., B. R., and D. A., Eds. Springer, Singapore, pp. 267-276. DOI: 10.1007/978-981-15-3383-9\_24, March 2021.

**D: Conference/Seminar/Webinar/Workshop participated**

- Dr. Prateek Pandey participated in ATAL FDP on "Data Sciences", Organized by National Institute of Technology, Durgapur during May 31-June 04, 2021.
- Dr. Prateek Pandey and Mrs. Babita Tiwari participated in NPTEL E-Awareness Workshop on May 05, 2021.
- Mr. Navaljeet Singh Arora has participated in Guinness World Records attempt for "Most users to take an online computer programming lesson in 24 hours" organized by GUVI Geek Network Private Limited and AICTE-India on April 24, 2021.
- Kunj Bihari Meena presented a research paper with title "Image Splicing Forgery Detection Techniques: A Review" in 5th International Conference on Advances in Computing and Data Sciences (ICACDS 2021), Nashik, Maharashtra, India, April 23-24, 2021.
- Mr. Navaljeet Singh Arora has been awarded with Certificate of Completion for successful completion of the course "DL#101- Get Started" by GUVI on March 20, 2021.
- Dr. Dinesh Kumar Verma, Dr. Nileshkumar, Mr. Kunj Bihari Meena, Dr. Amit Kumar Srivastava, Mrs. Babita Tiwari attended a lecture by Prof. Pankaj Jalote Professor, IIIT Delhi on Topic "Building Research Universities in India" held online on March 18, 2021.
- Mr. Navaljeet Singh Arora has been awarded a Certificate of Achievement for the successful completion of "Machine Learning 101" by GUVI on March 17, 2021.

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

- Faculty members of CSE department attended online lecture for JUET, JIITU, JUIT faculty members on "Copyright Policies for Digital Content" delivered by Dr. K. S. Giridharan, Assistant Professor, NITTTR Chennai on July 07, 2021.
- Department organized two-week teacher's training programme in association with CSI on "Demystifying Artificial Intelligence" for school teachers in online mode during June 07-19, 2021. This teacher's training programme was coordinated by Dr. Nileshkumar Patel and Dr. Neelesh Kumar Jain. Dr. Mahesh Kumar, Dr. Prateek Pandey, Dr. Neelesh Kumar Jain, Dr. Nileshkumar Patel, Mr. Kunj Bihari Meena delivered online lectures and conducted technical sessions along with hands-on sessions during this workshop. 465 school teachers from 9 different states registered for the programme.
- Two webinars titled "Introduction to DS and Algorithm and roadmap to programming" and "Roadmap to cracking internship/ placements & automation bot using selenium, python" were organized by the department in association with CodingNinjas (Noida based IT company) and this webinar was coordinated by Dr. Nileshkumar Patel on May 30, 2021.

**F: BOS Meeting**

- Twelfth BOS meeting of the department was held on July 12, 2021.



**Two week FDP (Teacher's Training Programme) on "Demystifying Artificial Intelligence" for school teachers was organised by CSE department during June 07-19, 2021.**



**G: Student's activities**

- The Student branch of Computer Society of India, Bitwise – JUET Programming Hub and Mozilla Phoenix Club organized following events during this period:
  - Kodeathon B11 : June 14, 2021
  - Kodeathon B10 : June 13, 2021
  - Kodeathon B9 : June 12, 2021
  - Webinar 2: CodingNinjas : May 31, 2021
  - Webinar 1: CodingNinjas : May 30, 2021
  - Graphic Design Workshop : March 12-13, 2021

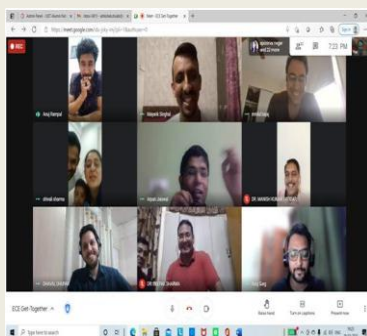
**ELECTRONICS AND COMMUNICATION ENGINEERING**

**A: Publication in Journals**

- Rishika Chauhan, Shefali Sharma, and Rahul Pachauri, "Deep NeuralNetwork-Based Prediction of the COVID-19 Spread in India",Vol. 3, No. 1, pp. 1-11, March 2021.
- Subodh Singhal, Sujit Patel, Anurag Mahajan and Gaurav Saxena, "Area-Delay Efficient Radix-4 8x8 Booth Multiplier for DSP Applications" Turkish Journal of Electrical Engineering & Computer Sciences, DOI: 10.3906/elk-2007-179, March 2021.

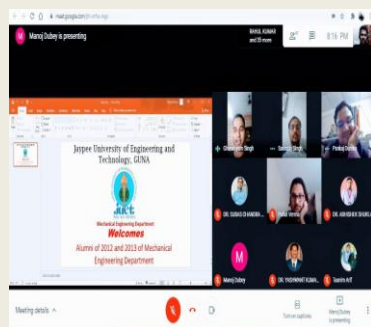
**B: Conference/Seminar/Webinar/Workshop participated**

- Dr. Ravi Kumar attended one-day workshop on Cyber Security organized by CETPA Infotech Private Ltd. in coordination with Bundelkhand Institute of Engineering and Technology on July 07, 2021.
- Dr. Rajesh Kumar Vishwakarma attended one-day webinar on "Research Methodology and publication Ethics" organized by Research Motivational Group Ambikapur, Chhattisgarh on July 04, 2021.
- Dr. Rajesh Kumar Vishwakarma attended one-day webinar on "Research Journal Finding and reference Management through Web of Science and Scopus-Research Management" organized by Nadimpalli Satyanarayana Raju Institute of Technology Pendurthi-Anandapuram Rd, Highway, Sontyam, Visakhapatnam Andhra Pradesh on June 05, 2021.
- Dr. Ravi Kumar attended National Webinar on "AI based healthcare Technology" organized by IETE, Jabalpur section and Computer Science Department, Oriental Institute of Science and Technology, Jabalpur on May 20, 2021.
- Dr. Ravi Kumar attended online National symposium on "Accelerating Digital Transformation in Challenging Times" organized by Institute of Electronics and Telecommunication Engineers (IETE), New Delhi on May 17, 2021
- Dr. Ravi Kumar delivered a session on "Augmentation in MIMO Communication Systems" IETE Zonal Seminar organized by IETE MP Chapter in collaboration with Department of Electronics Engineering, Madhav Institute of Technology & Science, Gwalior on May 16-17, 2021
- Dr. Rajesh Kumar Vishwakarma attended one-day webinar on "5G wireless Networks and a Glimpse of 6 G" organized by The Institution of Electronics and Telecommunication Engineers, near University Post Office Hyderabad, Telangana on May 16, 2021.
- Dr. Shefali Sharma attended an online technical talk on the topic "Embedded Automotive Applications: Challenges and Opportunities" organized by the Department of Electronics and Telecommunication Engineering, Symbiosis Institute of Technology, Pune, May 15, 2021
- Dr. Rajesh Kumar Vishwakarma delivered a lecture in a webinar on the topic "Global Contribution of Albert Einstein for Human Welfare and Word Peace" Organized by Vigyan Jagriti Manch, Ambikapur Chhattisgarh on May 14, 2021.
- Dr. Ravi Kumar attended a webinar on "IOT Based Healthcare Technology" IETE, Jabalpur section and Computer Science Department, Oriental Institute of Science and Technology, Jabalpur on May 13, 2021.



**Online Alumni Get Together of ECE Department held on March 28, 2021**





**Online Alumni Get Together  
of ME Department held on  
March 13, 2021**

- Dr. Rajesh Kumar Vishwakarma attended three-day national online workshop on “Additive Manufacturing (NWAM-2021)” organised by Department of Mechanical Engineering, JUET, Guna, M.P. on April 15-17, 2021.
- Dr. Shefali Sharma and Rishika Chauhan attended an online technical talk on the topic Embedded Systems: Challenges and Advantages in Factory Automation & IT (FA-IT)” organized by the Department of Electronics and Telecommunication Engineering, Symbiosis Institute of Technology, Pune, March 27, 2021.
- Dr. Shefali Sharma attended an online technical talk on the topic “Embedded Systems for Industrial IoT” organized by Department of Electronics and Telecommunication Engineering, Symbiosis Institute of Technology, Pune, on March 13, 2021.
- Dr. Rajesh Kumar Vishwakarma attended two-day international webinar on “Innovative research trends in green Electronics and allied Technology” organized by Department of Electronics, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati, Pune on March 2-3, 2021.
- Dr. Rajesh Kumar Vishwakarma attended one-day webinar on “Intellectual Property Rights-Key for Achieving Academic Excellence” organized by the Department of Commerce & Business Administration, P. B. Siddhartha College of Arts & Science, Vijayawada on February 26, 2021.
- Dr Ravi Kumar attended the International Virtual Conference on “Next Generation Education Technology for Science and Engineering” organized by IETE MP Chapter in association with IEEE MP Subsection, and The Institution of Engineers, India on February 26-27, 2021.
- Dr. Ravi Kumar attended a national webinar on “NEP 2020: Catalysing Research and Innovation and HEIs” organized by National Project Implementation Unit (Uttar Pradesh) in coordination with TEQIP-3, SPIU, UP and Bundelkhand Institute of Engineering and Technology on February 13, 2021.

**C: Ph.D. Awarded**

- Ph.D. degree has been awarded to Mr. Jitendra Raghuwanshi for his thesis entitled, “Performance Augmentation of Adaptive Filter for Nonlinear Acoustic Echo Cancellation Schemes”, under the supervision of Dr. Narendra Singh and Dr. Amit Mishra in June, 2021.

**D: BOS Meeting**

- Tenth BOS meeting of the department was held on July 05, 2021 in online mode.

**MECHANICAL ENGINEERING**

**A: Publication in Journals**

- Pankaj Gupta, Bhagat Singh, “A new ensemble approach to explore stability features in turning operation on CNC lathe”, Journal of Mechanical Science and Technology, DOI: 10.1007/s12206-021-0605-1, June 2021.
- Pankaj Gupta, Bhagat Singh, “Investigation of tool chatter using local mean decomposition and artificial neural network during turning of Al 6061”, Soft Computing, pp. 1-24, 2021. DOI: 10.1007/s00500-021-05869-0, May 2021.
- Yashwant Kumar Modi, and Kiran Kumar Sahu, "Process parameter optimization for porosity and compressive strength of calcium sulfate based 3D printed porous bone scaffolds", Rapid Prototyping Journal, Vol. 27, No. 2, pp. 245-255. March 2021.
- Pankaj Gupta, Bhagat Singh, “Analyzing chatter vibration during turning on computer numerical control lathe using ensemble local mean decomposition and probabilistic approach”, Noise & Vibration Worldwide, Vol. 52, No. 6, pp. 168-180, 2021. March 2021.
- Priyanka Joshi, Md Tasnim Arif, Amit Sharma, “Response Surface Modelling of Bottom Kerf Deviation in Nd-YAG Laser Cutting of Al 6061-T6 Alloy Sheet”, JUET Research Journal of Science & Technology, Vol. 6, Special Issue 2020, pp. 01-06.

**B: Publication in Conference Proceedings**

- Kiran K. Sahu and Yashwant K. Modi, “Influence of layer thickness and build orientation on compressive strength of 3D printed scaffolds prototypes”, IOP Conference Series: Materials Science and Engineering, Vol. 1136, No. 1, pp. 01203, DOI: <https://doi.org/10.1088/1757-899X/1136/1/012031>, June 2021.



**Three-day National Workshop on Additive Manufacturing, NWAM-2021, organised by Department of Mech. Engg. during April 15-17, 2021**

- Saksham Sharma and Rishabh Rathor and Harshit Gautam and Kirti Katiyar and Chinmay Gunawat, Pankaj Dumka, "Influence of coco peat powder on the solar still productivity: An exergo-economic study", IOP Conference Series: Earth and Environmental Science, Vol. 795, No. 012012, DOI: 10.1088/1755-1315/795/1/012012, 2021.
- Pankaj Gupta, Bhagat Singh, "Exploration of tool chatter in CNC turning using a new ensemble approach", Materials Today Proceedings, Vol. 43, pp. 640-645, DOI 10.1016/j.matpr.2020.11.1005, 2021.
- Pankaj Gupta, Bhagat Singh and Yogesh Srivastava, "Grey relation analysis for optimal process variables during turning on CNC Lathe", Material Today Proceedings, DOI 10.1016/j.matpr.2021.05.259, 2021.

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

- Prof. Ghanshyam Singh delivered a keynote talk on "Thermal Management of Electronic Devices using Jet Impingement and Phase Change Materials (PCMs)", in one-day online International Symposium on Fluids and Thermal Engineering FLUTE-2021, organized by the Department of mechanical engineering, AMITY University, NOIDA, on July 22, 2021.
- Dr. Amit Sharma, Dr. Yashwant Kumar Modi, Dr. Subas Dash, Dr. Dhananjay Mishra, Dr. Kedari Lal Dhaker, Mr. Manoj Dubey, Mr. Tasnim Arif, Mr. Ram Kumar attended three-day NWAM-2021 organised by the Department during April 15-17, 2021.
- Dr. Yashwant Kumar Modi delivered keynote address (Online mode) on "State of the Art in Medical 3D Printing", in TEQIP sponsored two-day workshop on "Laser Micro Processing for Bio Medical Applications, organized by Coimbatore Institute of Technology, Coimbatore on March 15, 2021.
- Dr. Yashwant Kumar Modi attended AICTE-ISTE approved refresher programme on "Learner Oriented Teaching Methods" organised by IPS College of Technology and Management, Gwalior, MP during March 07-13, 2021.
- Dr. Yashwant Kumar Modi delivered a webinar on "3D Printing Application in Civil Engineering", organised by Department of Civil Engineering, JUET, Guna on March 6, 2021.
- Dr. Yashwant Kumar Modi delivered an expert lecture (Online mode) on "Medical and Biomedical Application of 3D Printing", in one week AICTE-RGPV Joint Online Teachers Training Program at IPS Academy, Institute of Engineering and Science, Indore (M.P.) on March 5, 2021.

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

- Department organized a three-day national workshop on Additive Manufacturing-2021 (NWAM-2021) during April 15-17, 2021 through online mode. Eminent speakers from IIT, IIIT, NIT/other reputed institutions and industries delivered lectures and lab sessions. Out of 365 registrants from across the country 175 actively attended the workshop. Prof. Ghanshyam Singh was Chairman and Dr. Yashwant Kumar Modi was co-ordinator of this workshop.

**E: BOS Meeting**

- Eleventh BOS meeting of the department was held on January 22, 2021 in online mode.

**F: Ph.D. Awarded**

- Ph.D. degree has been awarded to Mr. Pankaj Dumka for his Thesis entitled, "Desalination of Water Using Modified Form of The Single Slope Solar Still and Double Slope Long Still", under the supervision of Dr. Dhananjay R. Mishra in April 2021.

**G: Student Achievements**

- Palkesh Maithil (171E011) IV year student qualified GATE 2021 with AIR-2909.
- Atul Dhakar (2003E001), Ph.D scholar, Vaibhav Mishra (171E021) and Jogesh Rajiyan (181E011) B.Tech. students presented papers in National e-conference on "Recent Trends in Fluid Dynamics Research (RTFDR-21)", organized by Department of Chemical Engineering, NIT Rourkela during April 02-04, 2021.





**Vigyan Yatra visited JUET Campus on March 18, 2021**

- Kiran Kumar Sahu, Ph.D scholar presented research article in International Conference on advances in Materials, Mechanics, Mechatronics and Manufacturing (IC4M-2021), organised by Yajurvedam, an association for educational empowerment and social welfare on March 06, 2021.
- Saksham Sharma (181E016), Rishabh Rathor (171E016), Harshit Gautam (181E009), Kirti Katiyar (171E025) and Chinmay Gunawat (181E004), B.Tech. students presented paper in International Conference on Sustainable Energy, Environment and Green Technologies (ICSEEGT-2021) organized by Poornima college of Engineering, Jaipur, RJ, March 05-06, 2021.

### **CHEMISTRY**

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

- Himani Sharma and Rashmi Tyagi, "Systematic Studies of Sodium  $\gamma$ -Octyl Aspartate to evaluate its Biodegradation, Surface Parameters, Micellization Aspects and Thermodynamic Properties of its Binary Mixture using Electrolytes, Research Journal of Chemistry and Environment, Vol. 25, No. 7, pp. 34-48, July 2021.
- Singh P.K., Goswami S. and Shukla D.K., "Effect of Performance Improver Additives on the Properties of 53 Grade Ordinary Portland cement", JUET Research Journal of Science and Technology, Vol. 6, Special Issue 2020, pp. 34-36.

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

- S.K. Srivastava, "New Challenges on Natural Resources and their Impact on Climate Change in the Indian Context. India: Climate Change Impacts, Mitigation and Adaptation in Developing Countries edited by Md. Nazrul Islam, André van Amstel. Vol 1, page 1-15, DOI: 10.1007/978-3-030-67865-4\_1. May 2021

### **HUMANITIES AND SOCIAL SCIENCES**

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

- Abhishek Shukla, "COVID-19 pandemic: An analysis of popular YouTube videos as an alternative health information platform", Health Informatics Journal, Vol. 27, No. 2, 1460458221994878, June 2021.
- Tamanna Agarwal, Sandeep Arya and Kamini Bhasin, "The Evolution of Internal Employer Branding and Employee Engagement: The Temporal Role of Internal Social Media Usage", Journal of Information & Knowledge Management, Vol. 20, No. 01, 2150012, March 2021.
- Rachna Chaturvedi, "Digitization: A Prerequisite for Women Empowerment", International Journal of Advances in Management and Economics, Vol. 10, No. 01, pp. 19-25, February 2021.
- S. S. Satapathy and Sandeep Srivastava, "Comparative Study of Natural Gas Vehicle vs Electric Vehicle in Transportation", Turkish Online Journal of Qualitative Inquiry, Vol. 6, pp. 6387- 6399, 2021.

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

- Tanmay Pant and Sandeep Arya, "Digitally Enabled Life Insurance Distribution: A COVID-19 Induced Reset or a Change that's Here to Stay?" in Marketing Strategies, GIBS, February 2021, pp. 96-106.

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

- Dr. Rachna Chaturvedi and Dr. Kamini Bhasin participated in an online training Programme on "Strengthening Rural Community Governance" organized by National Institute of Rural Development and Panchayati Raj, Hyderabad during July 26-30, 2021.
- Dr Shekhar Singh participated in a MDP on "Marketing on brand revitalization strategies during pandemic" organised by Gitarattan International Business School, Delhi from June 4-5, 2021.



**A webinar on “Positive Psychology Paradigm”, by Dr. Ljupcho Efremov, (PhD, Research Manager Indago DOOEL, Skopje) on April 16, 2021**

- Dr. Vikram Singh Chouhan presented a paper titled “Measuring the employee’s Job Satisfaction level of ABC Private limited, Rajasthan” in International Asian Congress on Contemporary Sciences-V conducted by Nakhchivan State University, Azerbaijan during June 1-2, 2021.
- Dr. Kamini Bhasin participated in a FDP on ‘Building Emotional Intelligence and Resilience Case Method of Experiential Teaching and Learning’ sponsored by Mahatma Gandhi National Council of Rural Education during May 10 - 14, 2021.
- Dr. Vikram Singh Chouhan attended FDP on “Inculcating Universal Human Values in Technical Education” conducted by AICTE during May 3-7, 2021.
- Dr. Shekhar Singh attended a workshop on “Data analysis using R” organized by Doctoral Research Centre, Chitkara Business School, Chitkara University, Punjab from May 3-7, 2021.
- Tanmay Pant, Sandeep Arya, Gyanesh Jain, and Vikas Gupta presented a paper entitled “Max Life Insurance: Balancing Bancassurance with proprietary distribution” in ICMIC21, organized by the Institute of Management Studies, Ghaziabad on April 24, 2021.
- Tanmay Pant, Sandeep Arya, Gyanesh Jain, and Deepanshu Agarwal presented a paper entitled “Channel profitability across bank promoted/supported and non-bank promoted/supported categories of life insurance firms in India” in International Conference on 'Resilience for Sustainability: Revisiting Management Practices and Strategizing for The Future', organized by School of Management and Liberal Studies on March 26, 2021.
- Neeraj Jain attended a seminar on "Building research universities in India" by Prof. Pankaj Jalote, Founding Director and Distinguished Professor, IIIT-D, sponsored by JUET, Guna on March 18, 2021.
- Neeraj Jain attended a seminar on “Opportunities in Online Education” by Dr. Manpreet Singh Manna, Ex-Director, AICTE, New Delhi, sponsored by JUET, Guna on March 10, 2021.
- Dr. Vikram Singh Chouhan presented a paper titled “A Study on Job Satisfaction of ABC Private limited, Rajasthan” in 9th International e-conference on Technology, Innovations, and Management for Sustainable Development conducted by ITM University, Gwalior during February 18-20, 2021.
- Dr. Vikram Singh Chouhan attended a workshop on “Patent Search and Filing” conducted by Turnip Innovations Pvt. Ltd. during February 16-20, 2021.
- Dr. Vikram Singh Chouhan attended a workshop on “Technology Commercialization” conducted by Turnip Innovations Pvt. Ltd. on February 15, 2021.

**D: Conference / Seminars/ Workshops organized**

- Dr. Shekhar Singh delivered a session on “Tips to Enhance Citation” in FDP conducted by Lala Lajpat Institute of Management, University of Mumbai on June 26, 2021.
- Dr. Kamini Bhasin organized a workshop on building emotional intelligence and resilience sponsored by Mahatma Gandhi National Council of Rural Education (Department of Higher Education, Ministry of Human Resource Development, Govt. of India, Hyderabad) on May 12, 2021.
- Dr. Rachna Chaturvedi, Dr. Kamini Bhasin and Dr. Abhishek Shukla organized a webinar on Technology, innovation and Women by Ms Raashi Vohra, Manager Social Media, Holistic Broadcasting and D.N. Media House on March 13, 2021.
- Dr. Kamini Bhasin, Dr. Rachna Chaturvedi and Dr. Abhishek Shukla organized a webinar on Technology, innovation and Women by Ms. Shaloo Saraf, MD, Supergood Lifestyle & Co-founder Cluburb.com on March 13, 2021.
- Dr. Rachna Chaturvedi, Dr. Kamini Bhasin and Dr. Abhishek Shukla organized a webinar on Technology, innovation and Women by Ms. Prachi Sharma, JUET Alumni (2010-14) ECE, Advocate, Patent Agent, Saikrishna & Associates on March 13, 2021.





**A webinar on “Rural Women Empowerment” by Dr. Geeta Malhotra, Country Director, (READ) Rural Education and Development, India on March 06, 2021**

- Dr. Kamini Bhasin, Dr. Rachna Chaturvedi and Dr. Abhishek Shukla organized a webinar on Rural Empowerment by Dr. Geeta Malhotra, Country Director, READ (Rural Education and Development) India on March 6, 2021.

**E: Ph.D. Awarded**

- Ph.D. degree has been awarded to Ms. Sapna Surjan for her thesis entitled, “Evaluative study of Micro, Small and Medium Enterprises in Madhya Pradesh”, under the supervision of Dr. Sandeep Srivastava in March, 2021.

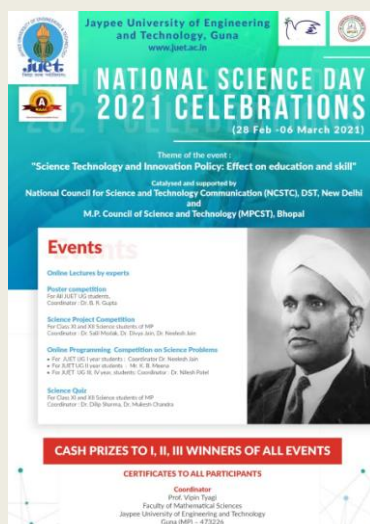
**MATHEMATICS**

**A: Publication in Journals**

- Keerthana Nandakumar, Viji Vinod, Syed Musthafa Akbar Batcha, Dilip Kumar Sharma, Mohanraj Elangovan, Anjana Poonia, Suresh Mudlappa Basavaraju, Sanwta Ram Dogiwal, Pankaj Dadheech, Sudhakar Sengan, “Securing data in transit using data-in-transit defender architecture for cloud communication”, *Soft Computing*, pp.1-14, DOI: 10.1007/s00500-021-05928-6, June, 2021.
- Aakanksha Singhal, D.K. Sharma, “Seven Divergence Measures by CDF of fitting in Exponential and Normal Distributions of COVID-19 Data”, *Turkish Journal of Physiotherapy and Rehabilitation*, Vol.32, No.3, pp.1212 - 1222, May, 2021.
- Aakanksha Singhal, D.K. Sharma, “Seven Divergence Measures by CDF of fitting in Exponential and Normal Distributions of COVID-19 Data”, *Turkish Journal of Physiotherapy and Rehabilitation*, Vol.32, No.3, pp.1212 - 1222, May, 2021.
- Satheesh Narayanasami, Rajasekhar Butta, Rajeshkumar Govindaraj, Surendra Singh Choudhary, Dilip Kumar Sharma, Anjana Poonia, Sudhakar Sengan, Pankaj Dadheech, Neeraj Kumar Shukla, Rajesh Verma, “An Enhanced Trust-Based Kalman Filter Route Optimization Technique for Wireless Sensor Networks”, *Wireless Personal Communications*, pp.1-19, DOI: 10.1007/s11277-021-08578-x, May, 2021.
- Aakanksha Singhal, D.K. Sharma, “A Study of before and after Lockdown Situation of 10 Countries through Visualization of Data along With Entropy Analysis of Top Three Countries”, *International Journal of Future Generation Communication and Networking*, Vol.14, No.1, pp.496-525, March, 2021.
- Roy Setiawan, Ramakoteswara Rao Ganga, Priya Velayutham, Kumaravel Thangavel, Dilip Kumar Sharma, Regin Rajan Sujatha Krishnamoorthy, Sudhakar Sengan, “Encrypted network traffic classification and resource allocation with deep learning in software defined network”, *Wireless Personal Communications*, pp.1-17, DOI: 10.1007/s11277-021-08403-5, March, 2021.
- D.K. Sharma and Haldhar Sharma, “A Study of Trend Growth Rate of Confirmed cases, Death cases and Recovery cases in view of Covid-19 of Top Five States of India”, *Solid State Technology*, Vol. 64, No.2, pp.4526-4541, March, 2021.
- Omnia Saidani Neffati, Sudhakar Sengan, Kalavathi Devi Thangavelu, Sharma Dilip Kumar, Roy Setiawan, Mohanraj Elangovan, Devi Mani, Priya Velayutham, “Migrating from traditional grid to smart grid in smart cities promoted in developing country”, *Sustainable Energy Technologies and Assessments*, Vol.45, pp.1-9, March, 2021.

**B: Publication in Conference Proceedings**

- Dilip Kumar Sharma, Sarika Lohana, Saurabh Arora, Ashutosh Dixit, Mohit Tiwari, Tripti Tiwari, “E-Commerce product comparison portal for classification of customer data based on data mining”, *Materials Today: Proceedings*, DOI: 10.1016/j.matpr.2021.05.068, June, 2021.
- Ravendra Namdeo and Bali Ram Gupta, “Creeping flow around a spherical particle covered by semipermeable shell in presence of magnetic field”, *IOP Conf. Ser.: Mater. Sci. Eng.*, Vol. 1136, June 2021.
- Dilip Kumar Sharma, Ningthoujam Chidananda Singh, Daneshwari A Noola, Amala Nirmal Doss, Janaki Sivakumar, “A review on various cryptographic techniques & algorithms”, *Materials Today: Proceedings*, DOI: https://doi.org/10.1016/j.matpr.2021.04.583, May, 2021.



National Science Day Celebration

- D.K. Sharma, “Information Measure Computation and its Impact in MI COCO Dataset”, 7th International Conference on Advanced Computing and Communication Systems (ICACCS), Vol. 1, pp. 1964-1969. March, 2021.
- D. K. Sharma, Bhopendra Singh, Edwin Herman, R Regin, S Suman Rajest, Ved P Mishra, “Maximum Information Measure Policies in Reinforcement Learning with Deep Energy-Based Model”, International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), pp. 19-24. March, 2021.
- Aakanksha Singhal, D.K. Sharma, “Keyword extraction using Renyi entropy: a statistical and domain independent method”, 7th International Conference on Advanced Computing and Communication Systems (ICACCS), vol. 1, pp. 1970-1975. March 2021.
- D.K Sharma, Bhopendra Singh, M Raja, R Regin, S Suman Rajest, “An Efficient Python Approach for Simulation of Poisson Distribution”, 7th International Conference on Advanced Computing and Communication Systems (ICACCS), vol. 1, pp. 2011-2014. March, 2021.

**C: Publication of Book Chapter**

- D.K. Sharma and Aakanksha Singhal, “Entropy Analysis of a Dataset using Machine Learning Approach” is published in the book entitled “ICT based Framework for Data Science and Machine Learning Applications” by IJAICT India Publications, India, DOI: 10.46532/978-81-950008-7-6\_001, February, 2021.
- D.K. Sharma and Sonali Saxena, “Generalized Informative Discrimination Measure and Its Properties with Applications” is published in the book entitled “ICT based Framework for Data Science and Machine Learning Applications” by IJAICT India Publications, India, DOI: 10.46532/978-81-950008-7-6\_002, February, 2021.

**D: Conferences/Seminars/Webinars/Workshops participated**

- Dr. Bali Ram Gupta participated in Part 1 of the online UHV Refresher-1 FDP organized by All India Council for Technical Education (AICTE) during February 22-26, 2021.
- Dr. D.K. Sharma attended AICTE-AQIS sponsored one-week online Short-Term Training Programme on “Behavioural Remodelling for Enhancing Classroom Delivery of Teachers” organized by Department of Electronics Ambedkar Institute of Technology, Bengaluru during February, 22-27, 2021.

**E: Conference / Seminars/ Workshops Organised**

- Department organized “Science Quiz” and poster competition on theme “Science in everyday life/nature” (Online mode) for school students of Madhya Pradesh on occasion of National science day (March 6, 2021). These events were supported by National Council for Science and Technology Communication, DST, New Delhi and MP Council of Science and Technology, Bhopal and coordinated by Dr. D.K. Sharma and Dr. Bali Ram Gupta from the department.

**F: BOS Meeting**

- Eighth BOS meeting of the department was held on July 10, 2021 in online mode.

**MATHEMATICAL SCIENCES**

**A: Publication in Journals**

- K. B. Meena and V Tyagi, “A Deep Learning based Method for Image Splicing Detection”, Journal of Physics, Vol. 1714, 2021.

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

- Prof. Vipin Tyagi delivered an online talk and chaired a technical session in International Conference CONSILIO-2021 organized by SIET, Hyderabad held during July 9-10, 2021.
- Prof. Vipin Tyagi delivered an online talk and chaired a technical session in International Conference ICACDS-2021 organized by KBTCOE, Nashik, MS held during April 23-24, 2021.



- Prof. Vipin Tyagi participated in an AICTE sponsored short term course on Indian Sign Language organized by IIT Chennai from March 15-20, 2021.

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

- Prof. Vipin Tyagi organized MIC/AICTE - Toycathon 2021 Grand Finale, an event conducted by Govt. of India to promote indigenous toy industry as JUET Nodal Center SPOC from June 22-24, 2021.
- Prof. Vipin Tyagi organized a lecture by Prof. Pankaj Jalote (Founding Director and Distinguished Professor, IIT Delhi) on Topic "Building Research Universities in India" on March 18, 2021.
- Prof. Vipin Tyagi organized National Science day in association with MPCST during March 5-6, 2021.

**PHYSICS**

**A: Publication in Journals**

- Mukesh C Dimri, H. Khanduri, R Stern, "Effects of aliovalent dopants in LaMnO3: Magnetic, structural and transport properties", Journal of Magnetism and Magnetic Materials, Vol. 536, pp. 168111 (1-9), May 2021.

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

- Mukesh C. Dimri presented a paper entitled "Enhancement of Ferromagnetism in Mn/Al Bilayer Thin Films Irradiated by 400 keV Xe Ions", in 6th International (Virtual) Conference on Nanoscience and Nanotechnology (ICONN 2021), SRM Institute of Science and Technology, Chennai, Tamil Nadu, India, February 1-3, 2021.

**TRAINING AND PLACEMENT**

More than 120 in-campus recruitment companies have visited and around 30+ off-campus recruitment opportunities provided for 2021 batch. Companies like Accenture, Accolite, Adani Wilmar, Amazon, Argil-DX, Bridgecon Infra, Byjus, Clear Trail, Coditas, Cognizant, Cognizant Next, Collabera, Credentek, Dash Technologies, Delhivery, DXC Technologies, Econship, Ericsson, Fusionstak Technologies Pvt. Ltd., FutureSoft, Genpact, Grey B, Hashedin, Hexaware Technologies, Hipoteca Primero, Icerstis, Infogain, Infosys, Jaro Education, Jaypee Group, Kritikal Vision (Solutions), Kuliza, LeadSquared, Markle Sokrati, Mentor Box, Nagarro, NTT Data, Planet Spark, Qualitest, Rockwell Automation, RSK Business Solutions, TCS, Tech Mahindra, TechiMax, TestBook, The Bank of Newyork Mellon Corporation, Thingmzing, VectorScalar, Viram Labs, Virtusa, VK Publication, Wipro, Zeta India (Direct i Company), ZopSmart Technology provided recruitment offers to the students.

- CSE student Yukti Swaroop received highest package of 27.83 LPA by AMAZON.
- CSE student Tanish Singh received 2nd highest package of 21.00 LPA by The Bank of New York Mellon Corporation.
- ECE student Sumit Tripathi received package of 10.00 LPA by TechhiMax.
- CE Student Pankaj Rawat, CSE Students Harshit Parashar and Desh Deepak Chaudhary received package of 10.00 LPA Byjus.
- CSE student Abhinav Sharma received package of 9.00 LPA by Hipoteca Primero.
- CSE students Sachinam Shrivastava, Abhinav Parmar, Kartik Agarwal, Mrityunjay Pandey Piyush Jain, Nikita Gupta, Shubhank Khar and Pratyush Parashar received package of 8.00 LPA by Infosys.
- CSE student Sunidhi Batra received package of 8.00 LPA by Hashedin Technologies.
- CSE students Abhijay Ghosh, Mohit K Shivhare, Soumya Makhija and Sunidhi Batra received package of 8.00 LPA by ZopSmart Technologies.
- CSE student Shakshi Saxena received package of 8.00 LPA by Delhivery.
- CE student Pankaj Rawat received package of 8.00 LPA by Mentor Box.



**Media coverage:  
Campus recruitment drive by  
Jaypee Group, Feb 05, 2021**

- CSE student Divyanshu Dubey, Sanidhya Trivedi, Kriti Tyagi and Astha Nagariya received package of 7.60 LPA by TATA Consulting Service Ltd.
- CSE students Yukti Swaroop, Prakhar Pandey, Prashant Singh, Kartik Agarwal and Kirti Tyagi received package of 7.00 LPA by Testbook.
- CSE students Suvansh Agarwal and Piyush Khandelwal received package of 7.00 LPA by Kuliza.
- ECE student Sumit Tripathi received package of 7.00 LPA by Kritikal Vision (Solutions).
- CSE students Anant Srivastava, Manuj Verma, Prajjwal Agarwal, Rohit Lovewanshi and Sahil Sharma received package of 7.00 LPA by Cognizant Technology Solutions.
- ME Student Akash Raj and CSE student Abhuday Shukla received package of 6.60 LPA by Jaro Education.
- CSE students Ayushi Katiyar and Astha Nagariya received package of 6.50 LPA by Planet Spark.
- CSE Student Rashi Dixit received package of 6.50 LPA by Markle Sokrati.
- CSE Student Prakash Pathak and Saksham Shubham received package of 6.00 LPA by Grey B Services.
- CSE student Priyanshi Jain received package of 6.00 LPA by Coditas.
- CSE student Abhik Gulati received package of 6.00 LPA by FutureSoft.
- CSE student Anjali Dwivedi received package of 6.00 LPA by PayTM.
- CE students Hridesh K Trivedi, Nikhil Patel, Piyush Tiwari, Praveen K Urariya, and Priyesh Shukla received offer of 4.00-6.00 LPA by Jaypee Group. ME students Deepak, Rahul Kumar, Rishabh Rathore and Shivam Trivedi received offer of 4.00-6.00 LPA by Jaypee Group.
- CHE student Siddhartha Bose received offer of 4.00-6.00 LPA by Jaypee Group.
- ME student Akash Raj Singh and ECE student Uday S Baghel received offer of 4.00 LPA by Adani Wilmar.
- CE student Pundreek Mishra received offer of 4.00 LPA by Bridgecon Infra.
- 50+ companies offered package above 6.00 LPA CTC.
- Overall placement percentage offer wise is 146%.
- 84 Students are placed in more than one company.
- Average package offered to students is approx. 5.25 LPA.
- 194 students have been offered CTC 4.00 LPA and above.

### JAYPEE YOUTH CLUB (JYC)

Following activities have been conducted by JYC during February 01 to July 31, 2021:

- International Day of Yoga : June 21, 2021
- Azadi ka Amrit Mahotsav : March 12, 2021
- Saraswati Puja : February 16, 2021

### LEARNING RESOURCE CENTRE (LRC)

- On-line e-resources Springer Nature, IEEE CSDL IEEE ASPP, Magzter and DELNET membership have been renewed.
- One hundred eighty two (182) volumes of books comprising 32 newly purchased and 150 gifted books have been added.
- Two hundred sixty (260) books and 47 volumes of Journals have been bound.

### PROMOTIONS AND APPOINTMENTS

- Prof. P.K. Singh is appointed Dean (A & R) of the University on April 03, 2021.
- Dr. Ashok Watekar joined JUET Medical Center as Medical Consultant on April 01, 2021.

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Some of the placed students (2020-21 batch)