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- Prof. Shishir Kumar - Chairman
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DAYS OF NATIONAL IMPORTANCE CELEBRATION

- 71st Republic Day was celebrated on January 26, 2020. National Flag was hoisted by Prof. J.S.P. Rai, Hon'ble Vice Chancellor of the University, followed by speech and National Anthem.
- International Women's Day was celebrated on 5th March 2020. Dr. Rachna Chaturvedi, Faculty-HSS had an interactive session with all the female students.
- 74th Independence Day was celebrated on August 15, 2020 by taking all precautions of COVID-19. National Flag was hoisted by Prof. J.S.P. Rai, Hon'ble Vice Chancellor who addressed attendees and delivered motivational speech on the occasion. National Anthem was sung by all present.

INTERACTION BY HONOURABLE VICE CHANCELLOR

- Honourable Vice Chancellor Prof. J.S.P. Rai interacted with all faculty members and staff members of the university on June 25, 2020.
- Honourable Vice Chancellor Prof. J.S.P. Rai addressed students and parents via written messages twice during the COVID-19 pandemic on April 16 and June 6, 2020.

IMPORTANT ACADEMIC EVENTS

- Prof. Aparajita Ojha, Chief Investigator, Electronics and ICT Academy, IIITDM Jabalpur, delivered a lecture (online) on "Online Teaching-Learning", in FDP exclusively for JUET faculty members, on August 14, 2020.
- Padma Shri Prof. Deepak B Phatak, Prof., IIT Bombay (Retd.), delivered a lecture (online) on "Online Teaching-Learning" and "Back to Basics-Connect and Relate Online", in FDP exclusively for JUET faculty members, on August 11, 2020.
- Mr. Mayur Katiyar, Sr. Manager, Cognizant Technology Solutions, Denmark, Copenhagen, delivered a webinar on "History and changes in current technology landscape", for B.Tech CSE IV/VI Sem. students on August 4, 2020.
- Academic Council Meeting was held on July 27, 2020 (online mode).
- University adopted Learning Management Software (G-Suite) from July 2020.
- Mr. Abhinav Kumar Pande, Developer Associate at SAP, India, delivered a webinar on "Do's and Don'ts of Campus Recruitment", for B.Tech CSE IV/VI semester students on June 21, 2020.
- All the faculty members attended Online Training on Turnitin Feedback Studio on June 2, 2020.
- Mr. Agam Jain, Data Analyst at DocApps, Bengaluru, conducted a webinar on "How to pursue Data Analytics", for B.Tech CSE VI Semester students on May 23, 2020.
- A webinar on topic "Sessionize with Engineering Architect Mr. Amit Singh (Adobe, India) for upcoming placement season", conducted for B.Tech CSE VI semester students on May 10, 2020.
- Mr. Rahul Sawhney, Flipkart Bengaluru, India, conducted a webinar on "Current trends and expectation for recruitment and how to prepare for placements", for B.Tech CSE VI semester students on May 01, 2020.
- Mr. Shashi Bhusan, Mentor of Geeks for Geeks, India, conducted a webinar on "Talk on preparation of Placement for Dream Companies", for B.Tech CSE VI semester students on April 17, 2020.
- Prof. V. K Singh, Vice Chancellor, IIMT University, Meerut interacted with the faculty members of ECE on March 6, 2020.



Food packets were distributed in nearby areas during the COVID-19 pandemic by the voluntary contribution of JUET employees.

- IQAC of JUET Guna conducted a seminar to discuss the recent changes in NAAC Accreditation process and adoption of learning outcome based curriculum on March 05, 2020.
- Prof. Sunita Singh Sengupta, Head & Dean, FMS, University of Delhi, interacted with faculty members on February 11, 2020.
- BOM (Board of Management) meeting was held on January 31, 2020.
- Mr. Kalyan Kumar Kanji, Director, Project, Lotus Green Developers, New Delhi delivered an expert talks on “planning and project execution in construction industries” for students of Civil Engineering on January 15, 2020.

OUTREACH ACTIVITIES FOR COVID-19 PANDEMIC

- Due to the unprecedented situation arising due to COVID-19 pandemic, a number of health and safety measures were adopted by the University in conformity with government guidelines. No case of COVID-19 has been reported in JUET Campus till date.
- Assistance to district administration in form of transit facility to over 800 students of MP State studying in Kota, Rajasthan including medical examination was provided on April 22-23, 2020.
- With voluntary contribution from faculty and staff members, 100 food packets per day were distributed to migrants, government staff in the field and needy persons. Over 2500 food packets were distributed.

TIE-UP WITH COURSERA

- For supporting online learning, University started Coursera - JUET Sponsored Program for students and faculty members of University in the month of March 2020. Till August 14, 2020, 955 learners (students and faculty members) of the University joined this program and enrolled for 7187 courses. Out of 7187 enrolled courses, 2258 courses have been completed by the learners till this date.

CAD Action COMPETITION

- The Departments of Mechanical and Civil Engineering, jointly organized an online competition “CADAction-2020” during June 01-20, 2020. The objective of the competition was to design a walkthrough sanitizing tunnel using Free CAD software. Total 54 teams comprising B.Tech. first year students of various branches of JUET participated in this competition. All the teams initially learned FreeCAD software and then created an assembly model of a sanitizing tunnel as well as presented bill of material and cost estimation for the created tunnel. Team Abhikalpana (Spandan Saxena 191B265, Shubham K Munjani 191B255, Lokesh Pandey 191B147, Kamesh Parashar 191B135, Shrish Sharma 191B249, Ganesh Adavkar 191B206) was declared overall winner; whereas, teams Aquoconsilio and Nirvana were jointly declared runner ups.

INTERACTION BY REGISTRAR

- Brig Arjun Rawat (Retd), Registrar, JUET interacted with Registrars of all private universities of MP in meeting of MP Private University Regulatory Commission held at Bhopal on February 20, 2020.

ALUMNI ACHIEVEMENTS

- Mr. Shantanu Singhal, alumnus of B.Tech, CSE, batch 2016-20, has been offered admission in MS in business analytics program from university of Liverpool, UK.
- Mr. Shivam Agarwal alumnus of B.Tech, CSE, batch 2015-19, has been offered MS in University Of Florida, Gainesville, USA.
- Mr. Abhay Bajaj alumnus of B.Tech, MEC, batch 2015-19, has been offered MS in University of Applied Science Nordhausen, Germany.
- Mr. Abhishek Sharma, alumnus of B.Tech, MEC, batch 2015-19, has been offered MS in TU Dortmund University, Germany.
- Mr. Rajat Bisht, alumnus of B.Tech, MEC, batch 2015-19, has been promoted as Maintenance Engineer (MES) in Adani Wilmar Limited.
- Mr. Tushar Verma, an alumnus of B.Tech, ECE, batch 2015-19, has been promoted to Engineer-QA at Samsung, Noida.
- Mr. Nami Hathishah, alumnus of B.Tech, CE, batch 2015-19, cleared GRE with a score of 321 and TOEFL with a score of 107.
- Ms. Gargi Sawhney, alumna of B.Tech, CSE, batch 2014-18, pursuing her Masters from State University of Newyork at Stony Brook, USA.
- Ms. Divya Mawkin, alumna of B.Tech, CSE, batch 2014-18, pursuing her Masters in Management Information Systems from New York University, USA.
- Mr. Aditya Singh alumnus of B.Tech, CE, batch 2014-18, has been offered admission in Masters in Construction Planning and Management from Virginia Tech, Texas A & M and Purdue.
- Mr. Govind Sharma, alumnus of B.Tech, MEC, batch 2014-18 secured 400th rank in GATE-2020.
- Mr. Apoorv Saxena, alumnus of B.Tech, CSE, batch 2013-17 has been offered admission in MS in Computer Science from University of Texas, Arlington, USA.



“CADAction-2020” was organized by Mechanical Engineering department in association with Civil Engineering department during June 01-20, 2020.



Mr. Kalyan Kumar Kanji, Director, Project, Lotus Green Developers, New Delhi delivered an expert talk on “planning and project execution in construction industries” on January 15, 2020.

- Mr. Shikhar Dixit, alumnus of B.Tech, CSE, batch 2013-17 cleared XAT with 94.799 score. Got admission in IMT Ghaziabad.
- Mr. Vipul Jain, alumnus of B.Tech, CE, batch 2013-17, is offered admission for Master’s in Construction Planning and Management from the University of Deakin and also from the University of Adelaide.
- Mr. Vikramaditya Somani, alumnus of B.Tech, CE, batch 2013-17, completed his Post Graduate Program, MBA from Indian Institute of Management, Kashipur, is currently working as Business Development Manager in Teltonika, with a package of ₹16.5 lakhs per annum.
- Mr. Manasvi Sharma, alumnus of B.Tech, MEC, batch 2013-17, received job offer as Manufacturing Engineer at Avive Solutions, USA.
- Mr. Aditya Singh Paliwal, alumnus of B.Tech, MEC, batch 2013-17 secured 119th rank in GATE-2020.
- Mr. Mehul Kulshreshtha, alumnus of B.Tech, CSE, batch 2012-16 has been offered admission in MS in Computer Science at Dalhousie University, Canada.
- Ms. Shekha Saxena, alumna of B.Tech, CSE, batch 2012-16 has completed her Masters in Information System from Georgia State University. Currently she is working for Georgia Pacific as a Data Scientist.
- Mr. Sarthak Sharma, alumnus of B.Tech, CSE, batch 2012-16 has been offered admission in MS from Georgia State University, Atlanta, Georgia.
- Ms. Divya Shikha, alumna of B.Tech, CSE, batch 2012-16 has been offered admission in MBA in IIM Trichy.
- Mr. Sidhartha Sanadhya, alumnus of B.Tech, MEC, batch 2012-16, pursuing Ph.D. in Mechanical and Aerospace Engineering at University of Florida, Gainesville, USA.
- Mr. Uday Mehrotra, alumnus of B.Tech, MEC, batch 2012-16, has been promoted as Category Associate in Unacademy, Bangaluru.
- Mr. Sushant Jain, an alumnus of B.Tech. ECE, batch 2012-16, received Certificate of Excellence for his Exceptional Performance from Infosys.
- Mr. Rohan Agarwal, an alumnus of B.Tech. ECE, batch 2012-16, started a new position as Data Analyst at Novartis, Hyderabad.
- Ms. M Subbalakshmi, alumna of B.Tech, CSE, batch 2011-15, pursuing her Masters in computer science from The University of Texas at Rio Grande Valley, USA.
- Mr. Yuvraj Sharma, alumnus of B.Tech, MEC, batch 2011-15, joined as Deputy Manager at STL Sterlite Technologies.
- Mr. Shashwat Tiwari, alumnus of B.Tech, MEC, batch 2011-15, joined as Supply Chain Analyst at Veev California, USA.
- Ms. Neha Kumari, an alumna of B.Tech. ECE, batch 2011-15, started a new position as Sr. Project Scientist at Indian Institute of Technology, Delhi.
- Mr. Ayush Kapoor, an alumnus of B.Tech. ECE, batch 2011-15, started a new position as Management Intern at ITC Limited.
- Mr. Adarsh Pandey, an alumnus of B.Tech, ECE, batch 2011-15, is promoted to Human Resource Business Partner at Birlasoft, Pune.
- Mr. Shashank Shekhar, alumnus of B.Tech, CSE, batch 2010-14 has been offered admission in MS in Business Analytics program at Drexel University, Philadelphia.
- Mr. Pranjal Tiwari, alumnus of B.Tech, MEC, batch 2010-14, joined as Associate Project Manager at JP Morgan, Mumbai.
- Mr. Chinmay Gupta, alumnus of B.Tech, MEC, batch 2008-12, joined Westpac, Australia.
- Mr. Sachin Mehta, an alumnus of B.Tech. ECE, batch 2006-10, started a new position as Research Intern at Face book Research, Washington.
- Mr. Abhay Kumar Sah an alumnus of B.Tech, ECE, batch 2006-10, joined Indian Institute of Technology, Roorkee as Assistant Professor. He was recipient of Vice Chancellor Gold Medal.

ACHIEVEMENTS (FACULTY WISE)

FACULTY OF ENGINEERING

CHEMICAL ENGINEERING

A: Publication in Journals

- T. K. Bharadwaj and K. N. Gupta “Dye separation using a semi-batch foaming process: Process optimization using Taguchi methodology and Grey relational analysis”, Environmental Engineering Research, DOI: <https://doi.org/10.4491/eer.2020.242>, August 2020.



**Glimpses of Event
"ATHARVA 4.0" organized
by Civil Engineering
Forum (CEF) on January
20, 2020.**

- Sushmita Sharma and N.N. Dutta "Kinetics of facilitated transport of Zn(II) from leach liquor of spent LTS catalyst across bulk liquid membrane", Journal of the Iranian Chemical Society, DOI: 10.1007/s13738-020-01972-5, June 2020.
- Sushmita Sharma, Alok Gautam, and Shina Gautam "A Greener Approach to Extract Copper from Fertilizer Industry Spent Catalyst", Arabian Journal for Science and Engineering, DOI: 10.1007/s13369-020-04652-x, June 2020.
- K. N. Gupta and R. Kumar "Fixed bed utilization for the isolation of xylene vapor: Kinetics and optimization using response surface methodology and artificial neural network", Environmental Engineering Research, DOI: <https://doi.org/10.4491/eer.2020.105>, May 2020.
- Sushmita Sharma, G.K. Agarwal, and N.N. Dutta "Kinetic study on leaching of Zn and Cu from spent low-temperature shift catalyst (CuO/ZnO/Al₂O₃): application of taguchi design", Journal of Material Cycles and Waste Management, DOI: 10.1007/s10163-020-01038-x, April 2020.

B: Faculty Seminar

- Dr. Rahul Shrivastava delivered a seminar on "Comparative study of boosting and bagging based methods for fault detection in a chemical process", on February 29, 2020.
- Dr. Sushmita Sharma delivered a seminar on "Extraction of germanium from fly ash", on January 29, 2020.

CIVIL ENGINEERING

A: Publication In Journals

- Srinivasan Arunachalam and Lakshmanan, "Non-linear modelling of vortex induced lock-in effects on circular chimneys", Journal of Wind Engineering & Industrial Aerodynamics", Vol. 202, pp. 104201, June 2020.
- Yogesh Iyer Murthy, Sumit Gandhi and Abhishek Kumar, "Assessment of current and potential applications of Magnesium alloys in construction industry", Interiencia, Vol.45, No. 5, pp 20-39, May, 2020.
- Yogesh Iyer Murthy, Sumit Gandhi and Abhishek Kumar, "Mg alloy anodes for corrosion prevention of reinforcements in concrete", International Journal on Emerging Technologies, Vol. 11, No. 2, pp. 656-661, February 2020.

B: Conference/Seminar/Webinar/Workshop Participated

- Mr. Abhishek Verma attended one week Faculty Development Program on "Affordable Housing", organized by National Institute of Technical Teacher's Training and Research, Chandigarh, during June 22-26, 2020.
- All the faculty members of the department attended the three-day online FDP on "Geospatial Applications in Water Resources" organized by the St. Joseph's Institute of Technology, Chennai during June 15-17, 2020.
- Prof. S. Arunachalam, delivered a lecture (Online mode) entitled "Cyclone Disaster Mitigation including Materials and Methods of Construction", in FDP on "Recent Advances and Research Avenues in Material Science (RRM-2020)", conducted by School of Advanced Sciences, Kalasalingam Academy of Research and Education, on June 12, 2020.
- Mr. Ravindra Kumar Goliya attended international e-conference, "Bridge 2020 – An E-conference on Revolutions in Transportation Infrastructure", organized by Indian Institute of Bridge Engineers during June 12-13, 2020.
- Mr. Ravindra Kumar Goliya attended the One Week Faculty Development Program on "Performance of Engineering Structures under Extreme Loading", organized by Vignana Bharathi Institute of Technology, Hyderabad in association with ICI Hyderabad and Bangalore chapters during June 8-13, 2020.
- All the faculty members of the department attended one-week online Faculty Development Program on "Emerging Trends in Technologies in Civil Engineering", organized by National Institute of Technical Teacher's Training and Research, Chandigarh, during June 8-12, 2020.
- Dr. Sumit Gandhi, Dr. Nitin Kumar Samaiya, Mr. V.S.Babu, Mr. Ravindra Kumar Goliya, Mr. Abhishek Verma and Mr. Shrinarayan Yadav attended a three day online workshop on "Recent Trends and Scope in Civil Engineering", organized by ARKA Jain University, Jamshedpur, during June 02-04, 2020.
- Dr. Sumit Gandhi and Mr. Abhishek Verma attended one-week online FDP on "Quantum Geographic Information System (QGIS)" organized by Don Bosco College of Engineering, Goa in Association with Spoken Tutorial Project, IIT Bombay during June 1 - 5, 2020.
- Dr. Sumit Gandhi, Mr. Ravindra Kumar Goliya and Mr. Abhishek Verma attended online Short Term Training Program on "Innovation and Upgradation in Infrastructural Technology", organized by TEC in Association with ASTR, ICACI and IEI during May 27 to June 2, 2020.
- Dr. Sumit Gandhi, Dr. Nitin Kumar Samaiya and Mr. Abhishek Verma attended online training on "Geo-Spatial Technologies for Planning & Management of Rural Development Programmes" conducted by NIRDPR-NERC, Guwahati during May 26-28, 2020.



As a part of Social Awareness Campaign in the nearby areas, E-Village was organised by the university on 26th January, 2020 in Shripura Village.

- Dr. Sumit Gandhi and Mr. Abhishek Verma attended online training on “Integrating Disaster Management Plan with Gram Panchayat Development Plan” conducted by NIRDPR-NERC, Guwahati during May 20-22, 2020.
- Dr. Sumit Gandhi and Mr. Abhishek Verma attended one-month international FDP on “Environment and Sustainability [OE4BW]” organized by DY Patil College of Engineering, Akurdi, Pune during May 1-30, 2020.
- Dr. Sumit Gandhi attended three-week FDP on “WhatsApp Outcome Based Education” organized by DY Patil College of Engineering, Akurdi, Pune during March 24 to April 14, 2020.
- Prof. Srinivasan Arunachalam presented a paper on “Jaypee WINCENTRE: Commissioning of a State-of-the-art Boundary Layer Wind Tunnel Facility and Initial Simulation Studies”, in National Conference on Wind Tunnel Testing, (NCWT06-2020) at IIT, Kanpur on February 14, 2020.

C: Conferences/Seminars/Webinar/Workshops organized

- One day National webinar on “Highway Infrastructure: Planning and Construction” was organized by the department in association with Indian Institute of Technology, Jammu, India on July 19, 2020.
- A live webinar on 'Scope and Opportunities in Civil Engineering' was conducted by the department on August 2, 2020.

D. Awards/Honors/Recognition

- Prof. S. Arunachalam, as a member of Section Committee-1 (Civil Engineering) of the Indian National Academy of Engineering (INAE), attended on-line meeting for short listing of nominations for Election of Fellows; Foreign Fellows and INAE Young Engineer (YE) Award-2020 on June 16, 2020.

E: Faculty Seminar

- Mr. Yogesh Iyer Murthy delivered seminar on “Use of fibre reinforced composites in construction” on February 17, 2020.

F: Student’s activities

- Civil Engineering Forum (CEF) organized an event "ATHARVA 4.0" on January 20, 2020. A quiz related to general knowledge and reasoning was conducted in this event. Approximately 70 participants from various branches took part in the event.

COMPUTER SCIENCE AND ENGINEERING

A: Publication in Journals

- Prateek Pandey and Ratnesh Litoriya, “Software process selection system based on multicriteria decision making,” Journal of Software: Evolution and Process, DOI: 10.1002/smr.2305, August 2020.
- Neeraj Rathore, Neelesh Jain and Prashant Shukla, “Image Forgery Detection Using Singular Value Decomposition with Some Attacks”, National Academy Science Letters, DOI: <https://doi.org/10.1007/s40009-020-00998-w>, July 2020.
- Kunj Bihari Meena and Vipin Tyagi, “A copy-move image forgery detection technique based on tetrolet transform”, Journal of Information Security and Applications, Vol. 52, pp. 102481-102490, DOI: <https://doi.org/10.1016/j.jisa.2020.102481>, June 2020.
- Varun Kumar Sharma, Lal Pratap Verma, Mahesh Kumar, Ranesh Kumar Naha, and Aniket Mahanti, “A-CAFDSP: An Adaptive-Congestion Aware Fibonacci Sequence based Data Scheduling Policy”, Computer Communications, DOI: <https://doi.org/10.1016/j.comcom.2020.04.047> , Vol. 158, pp 141-165, May 2020.
- Prateek Pandey and Ratnesh Litoriya, “Promoting Trustless Computation through Blockchain Technology,” National Academy Science Letters, DOI: 10.1007/s40009-020-00978-0, May 2020.
- Mamta Pandey, Ratnesh Litoriya, and Prateek Pandey, “The Applicability of Machine Learning Methods on Mobile App Effort Estimation: Validation and Performance Evaluation,” International Journal of Software Engineering and Knowledge Engineering, Vol. 30, No. 1, pp. 23–41, April 2020.
- Anju Shukla, Shishir Kumar and Harikesh Singh, “Fault tolerance based load balancing approach for web resources in cloud environment”, International Arab Journal of Information Technology, Vol. 17, No.2, pp. 225-232, March 2020.
- Prateek Pandey and Ratnesh Litoriya, “Fuzzy Cognitive Mapping Analysis to Recommend Machine Learning based Effort Estimation Technique for Web Applications,” International Journal of Fuzzy Systems, Vol. 22, No. 4, pp. 1212–1223, March 2020.
- Prateek Pandey and Ratnesh Litoriya, “Fuzzy AHP based identification model for efficient application development,” Journal of Intelligent & Fuzzy Systems, Vol. 38, No. 3, pp. 3359–3370, March 2020.



Students participating in KODEATHON A10 held on March 04, 2020.

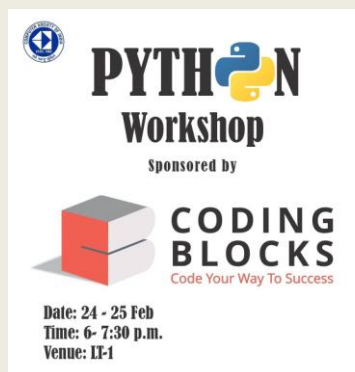
- Prateek Pandey and Ratnesh Litoriya, "Implementing healthcare services on a large scale: challenges and remedies based on blockchain technology," *Health Policy and Technology*, Vol. 9, No. 1, pp 69-78, DOI: <https://doi.org/10.1016/j.hlpt.2020.01.004>, March 2020.
- Lal Pratap and Mahesh Kumar, "An IoT based Congestion Control Algorithm", *Internet of Things*, <https://doi.org/10.1016/j.iot.2019.100157>, Vol. 9, March 2020.
- Kunj Bihari Meena and Vipin Tyagi, "A hybrid copy-move image forgery detection technique based on Fourier-Mellin and scale invariant feature transforms", *Multimedia Tools and Applications*, Vol. 79, issue 11, pp. 8197-8212, DOI: <https://doi.org/10.1007/s11042-019-08343-0>, January 2020.
- Prateek Pandey and Ratnesh Litoriya, "Securing and authenticating healthcare records through blockchain technology," *Cryptologia*, Vol. 44, No. 4, pp. 341-356, January 2020.
- Prateek Pandey and Ratnesh Litoriya, "An IoT Assisted System for Generating Emergency Alerts Using Routine Analysis," *Wireless Personal Communications*, Vol. 112, No. 1, pp. 607-630, January 2020.
- Prateek Pandey and Ratnesh Litoriya, "Securing E-health networks from counterfeit medicine penetration using Blockchain," *Wireless Personal Communications*, DOI: 10.1007/s11277-020-07041-7, January 2020.
- Anju Shukla, Shishir Kumar and Harikesh Singh, "MLP-ANN-Based Execution Time Prediction Model and Assessment of Input Parameters through Structural Modeling", *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, pp.1-9, July 2020.

B: Publication in Conference Proceedings

- Mayank Shrivastava and Shishir Kumar, "Investigating the challenges and methodologies of sentiment analysis," in 2019 IEEE Conference on Information and Communication Technology, Allahabad, India, 2019, pp. 1-6, DOI: 10.1109/CICT48419.2019.9066186, April 16, 2020.
- Sameeksha Shrivastava and Ajay Kumar, "Partitioned Based Image Segmentation," in 2019 IEEE Conference on Information and Communication Technology, Allahabad, India, 2019, pp. 1-6, DOI: 10.1109/CICT48419.2019.9066268, April 16, 2020.
- Akshay Sharma, Partha Sarathy Banerjee, Akshit Sharma, and Akshansh Yadav, "A French to English Language Translator Using Recurrent Neural Network with Attention Mechanism" in 4th International Conference on Nanoelectronics, Circuits & Communication Systems(NCCS-2018), Ranchi, organized & sponsored by ARTTC, BSNL, India, Nanoelectronics, Circuits and Communication Systems, on 03-04 November 2018, Lecture Notes in Electrical Engineering Vol 642, pp 437-451, https://doi.org/10.1007/978-981-15-2854-5_38, April 2, 2020.
- Banerjee Partha Sarathy, Chakraborty Baisakhi, Tripathi Deepak, Gupta Hardik and Sourabh S. Kumar, "NLIIRS: A Question and Answering System for Unstructured Information Using Annotated Text Segment Comparison" in 4th International Conference on Nanoelectronics, Circuits & Communication Systems(NCCS-2018), Ranchi, organized & sponsored by ARTTC, BSNL, India, Nanoelectronics, Circuits and Communication Systems, on 03-04 November 2018, Lecture Notes in Electrical Engineering Vol 642, pp 425-436, https://doi.org/10.1007/978-981-15-2854-5_37, April 2, 2020.
- Banerjee Partha Sarathy, Ghosh Abhijay, Gupta Aditya, Chakraborty Baisakhi "Natural Language Information Extraction Through Non-Factoid Question and Answering System (NLIEQA Non-Factoid)" published in Hassanien A., Bhatnagar R., Darwish A. (eds) *Advanced Machine Learning Technologies and Applications. AMLTA 2020. Advances in Intelligent Systems and Computing*, vol 1141. Springer, Singapore, Manipal University, Jaipur, India, pp 105-117, https://doi.org/10.1007/978-981-15-3383-9_10, February 13-15, 2020.

C: Publication of Book Chapter

- Anju Shukla, Shishir Kumar and Harikesh Singh, "Analysis of Effective Load Balancing Techniques in Distributed Environment. In *Linked Open Data-Applications, Trends and Future Developments*. IntechOpen, DOI: 10.5772/intechopen.91460, July 2020.
- Partha Sarathy Banerjee and Jaya Banerjee, "NLP for Clinical Data Analysis: Handling the Unstructured Clinical Information", in *Handbook of Research on Advancements of Artificial Intelligence in Healthcare Engineering A volume in the Advances in Healthcare Information Systems and Administration (AHISA) Book Series*, IGI Global, pp.359-367, DOI: 10.4018/978-1-7998-2120-5, May 2020.
- Prerna Rai, Shishir Kumar, and Dinesh Kumar Verma, "A Hybrid Machine Learning Framework for Prediction of Software Effort at the Initial Phase of Software Development," in *Advances in Computing and Data Sciences. ICACDS 2020. Communications in Computer and Information Science*, pp. 187-200, vol 1244. Springer, Singapore. https://doi.org/10.1007/978-981-15-6634-9_20.
- Kunj Bihari Meena and Vipin Tyagi, "A Deep Learning Based Method to Discriminate Between Photorealistic Computer Generated Images and Photographic Images", In: Singh M., Gupta P., Tyagi V., Flusser J., Ören T., Valentino G. (eds) *Advances in Computing and Data Sciences. ICACDS 2020. Communications in Computer and Information Science*, vol 1244. Springer, Singapore. https://doi.org/10.1007/978-981-15-6634-9_20.



Python workshop was organised during February 24-25, 2020.

- 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, 2021, pp. 593-609. DOI: 10.1007/978-3-030-46197-3_23.
- 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. AMLTA 2020. Advances in Intelligent Systems and Computing, H. A., B. R., and D. A., Eds. Springer, Singapore, 2021, pp. 267-276. DOI: 10.1007/978-981-15-3383-9_24.

D: Conference/Seminar/Webinar/Workshop Participated

- Dr. Rahul Pachauri attended National webinar on "SMART COMPUTING & IOT" Organised by Indian Institute Of Business Management, Patna in technical collaboration with Computer Society Of India, Patna Chapter on August 8, 2020.
- Dr. Prateek Pandey delivered a webinar on "Do's and Don'ts of JavaScript" under SAGE Talk series-2020, organized by SAGE University, Indore, M.P. on August 7, 2020
- Dr. Neelesh Kumar Jain delivered a webinar on "Digital Image Forensics and Challenges" as an expert speaker in Faculty development Program under TEQIP-III in association with Rajiv Gandhi Proudhyogiki Vishwavidyalaya (RGPV), Bhopal on August 6, 2020.
- Dr. Ratnesh Litoiya delivered a webinar on "Blockchain technology at a glance & its applicability in various scenarios other than bitcoin" under SAGE Talk series-2020, organized by SAGE University, Indore, M.P. on July 23, 2020.
- Dr. Ratnesh Litoiya delivered a webinar on "Blockchain: Exploring Different Use Case" under SAGE Talk series-2020, organized by SAGE, Bhopal, M.P.) on July 10, 2020.
- Prof. Shishir Kumar delivered a lecture on "Design Thinking for Innovation" on 22 June 2020 in the Virtual Talk Series organized by DSVV, Haridwar.
- Dr. Prateek Pandey attended Faculty Development Program (FDP) on "Game Pedagogy in OBE" organized by CSI, IET-SF, K C College of Engineering & Management Studies and Research, Thane MH during June 11- 12, 2020.
- Dr. Rahul Pachauri attended online workshop on "Showcase of Innovation and R&D work of M. P. related with COVID-19" organized by MPCST, Bhopal on June 5, 2020. Dr. Nileshkumar Patel delivered a webinar on "Sharding in MongoDB", organized by ABES Engineering College, Ghaziabad, NCR, India on June 5, 2020.
- Dr. Rahul Pachauri attended online National FDP on "Machine Learning for Biomedical Data Processing" lecture delivered by Prof. RB Pachori, IIT Indore and organized by Mandsaur University, Mandsaur on June 4, 2020.
- Mr. Partha Sarathy Banerjee participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Data Sciences" at NITTTR, Chandigarh during May 25-29, 2020.
- Prof. Shishir Kumar delivered a webinar on "Prospects of Information Technology with challenges of Covid-19" in the session organized by Wisdom 360 Academy, Lucknow on May 20, 2020.
- Dr. Mahesh Kumar has delivered an online webinar on Topic "Internet Routing". The webinar was organized by the Department of Computer Science & Engineering, Moradabad Institute of Technology Moradabad on May 15, 2020.
- Mr. Partha Sarathy Banerjee participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things" at NIT Jamshedpur during May 7-11, 2020.
- Mr. Partha Sarathy Banerjee has participated in the Webinar on the "Impacts of COVID-19", organized by the Department of Information Technology, Shri G. S. Institute of Technology & Science, Indore (M.P.) on May 3, 2020.
- Dr. Dinesh Kumar Verma, Dr. Neelesh Kumar Jain attended Online workshop on Universal Human Value on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education(AICTE) during April 26- 30, 2020.
- Dr. Prateek Pandey attended Faculty Development Program (FDP) on "Moodle Learning and Management System" organized by MHRD, Govt. of India. Held at Vivekanand College, Kolhapur during April 25- 30, 2020.
- Mr. Kunj Bihari Meena attended a conference "4th International Conference on Advances in Computing and Data Sciences (ICACDS 2020) organized by Faculty of ICT, University of Malta, Malta during April 24-25, 2020.
- Prof. Shishir Kumar delivered a webinar on "Challenges and role of Information Technology after COVID-19" in online conference organized by USERC, Dehradun on April 19, 2020.
- Dr. Mahesh Kumar completed Cisco Enterprise Networking, Security, and Automation training conducted by Amity Institute of Information Technology Noida, sponsored by Cisco Systems, from April 13-21, 2020.



Graphic Designing workshop held during February 28-29, 2020.

- Prof. Shishir Kumar, Dr. Dinesh Kumar Verma, Dr. Neelesh Kumar Jain, Dr. Nileshkumar Patel, Dr. Prateek Pandey and Mr. Partha Sarathy Banerjee attended online Faculty Development Program (FDP) on “Outcome based Education” organized by D Y Patil College of Engineering, Akurdi., during March 24-April 14, 2020.
- Dr. Neelesh Kumar Jain attended FDP on “ICT Tools” organized by Electronics and IT academy of Department of Electronics and Information Technology, Govt. of India, IIITDM, Jabalpur, during January 13-17, 2020.

E: Conferences/Seminars/Webinar/Workshops organized

- Department organized “Teachers Training Program on Python Projects” for school teachers in online mode during May 25-30, 2020. Dr. Mahesh Kumar, Dr. Nileshkumar Patel, Mr. Utkarsh Sharma and Dr. Amit shrivastava delivered online lectures and conducted online lab sessions during this workshop. 71 participants from 56 institutions participated in this event.
- Mr. Partha Sarathy Banerjee organised and delivered a webinar session on “Scope of Engineering Skills and Technologies after COVID 19”, during May 20-21, 2020. Total 415 participants participated in this webinar.
- Dr. Mahesh Kumar conducted “CCNA Routing & Switching Module -2”, a training programme at JUET, along with online mode, during Feb 3 - April 30, 2020.

F: Special Guest/ Examiners /Special Invitee

- Dr. Neelesh Kumar Jain and Dr. Dinesh Kumar Verma chaired one session each in 4th International Conference on Advances in Computing and Data Sciences (ICACDS) 2020 organized by Faculty of Information & Communication Technology, University of Malta, Malta on April 24–25, 2020.

G: Ph.D. Awarded

- Ph.D. degree has been awarded to Mrs. Anju Shukla by the University for his thesis entitled, “Analysis and Design of Effective Load Balancing Strategies for Optimizing Performance Parameters of Web Resources”, under the supervision of Prof. Shishir Kumar in June, 2020.

H: 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:
 - Webinar of CSI Cambridge : July 14, 2020
 - Kodeathon A12 (Online) : May 20, 2020
 - National Coding Contest (CSI MVSR) : April 25-27, 2020
 - Kodeathon A10 : March 4, 2020
 - Graphic Designing Workshop : February 28-29, 2020
 - Kodeathon A9 : February 27, 2020
 - Python Workshop : February 24-25, 2020
 - AR/VR workshop : February 17, 2020
 - Typolympics : February 12, 2020
 - AR Zombie Shooter Game (Part -1) : February 7,2020
 - Alumni Connect : January 27, 2020
 - E-Village : January 26,2020
 - Kodeathon A8 : January 23, 2020
 - Kodeathon A7 : January 22, 2020
 - Code Class : January 16-17, 2020
 - Getting Started – 1st AR Project : January 11, 2020
 - Memathon : January 09, 2020

ELECTRONICS AND COMMUNICATION ENGINEERING

A: Publication in Journals

- Dharmendra Jain, Jitendra Kanungo, and S. K. Tripathi, “Enhancement in performance of supercapacitor using eucalyptus leaves derived activated carbon electrode with CH3COONa and HQ electrolytes: step towards environment benign supercapacitor”, Journal of Alloys and Compounds Vol. 832, No. 154956, August 2020.
- Jitendra Raghuvanshi, Amit Mishra and Narendra Singh, “The Wavelet Transform-Domain Adaptive Filter for Nonlinear Acoustic Echo Cancellation” Multimedia Tools and Applications, DOI: 10.1007/s11042-020-09218-5, June 2020.



Resource Person of Fundamentals of Image Processing workshop held during February 10-12, 2020.

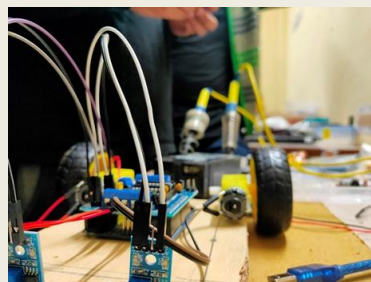
- Ashutosh Pandey and Deepak Sharma "Filtered-OFDM for 5G Wireless Communication Narrow-band IoT Systems" International Journal of Engineering and Advanced Technology, Vol.15, issue 3, pp. 24-31, June 2020.
- Rishika Chauhan, S. Sharma, R. Pachauri, P. Dumka, and D. R. Mishra, "Experimental and theoretical evaluation of thermophysical properties for moist air within solar still by using different algorithms of artificial neural network," Journal of Energy Storage, Vol. 30, pp. 101408, March 2020.
- Subodh Kumar Singhal, B. K. Mohanty, Sujit Kumar Patel and Gaurav Saxena, "Efficient Diminished-1 Modulo $(2n+1)$ Adder Using Parallel Prefix Adder" Journal of Circuits, Systems and Computers, World Scientific, DOI: 10.1142/S0218126620501868, February 2020.
- Mahendra Singh Yadav, Narendra Singh and Santosh M. Bobade, "Synthesis and characterization of Mn2O3–Mn3O4 nanoparticles and activated charcoal based nanocomposite for supercapacitor electrode application", Journal of Energy Storage, Vol 27, pp. No. 1-15, February 2020.
- Sujit Kumar Patel and Subodh Kumar Singhal, "Area-Delay and Energy Efficient Multi-operand Binary Tree Adder" IET Circuits, Devices and Systems, DOI: 10.1049/iet-cds.2019.0443, February 2020.
- Rishika Chauhan, P. Dumka, and D. R. Mishra, "Modelling conventional and solar earth still by using the LM algorithm-based artificial neural network," International Journal of Ambient Energy, doi.org/10.1080/01430750.2019.1707113, January 2020.
- Sanjeev Kumar, Ravi Kumar and Durgesh Nandan, "Circular Slotted Antenna with CPW feed for GSM and UWB Applications", International Journal of Sensors, Wireless Communications and Control DOI: 10.2174/2210327910666200123101812, January 2020.

B: Publication in Conference Proceedings

- Mahendra Singh Yadav, Narendra Singh and Santosh M. Bobade," Electrochemical analysis of CuO-AC based nanocomposite for supercapacitor electrode application", Materials Today: Proceedings, pp. 366-374, DOI: <https://doi.org/10.1016/j.matpr.2020.02.712>, March 2020.

C: Conference/Seminar/Webinar/Workshop Participated

- Dr. Rajesh Kumar Vishwakarma attended one-day National E-workshop on "Learning Management System and Google Forms" organized by the Department of Computer Application in association with Internal Quality Assurance Cell Govt. Naveen College Hasoud, District-Janjgir Champa, Chhattisgarh on August 9, 2020.
- Dr. Rajesh Kumar Vishwakarma attended webinar on "Recent Trends in Thin film Technology" organized by Department of Science and Humanities (Physics Division), Kumaraguru College of Technology, Coimbatore on July 30, 2020.
- Dr. Narendra Singh attended national workshop on "LaTeX for Technical Document Preparation", on July 26, 2020.
- Dr. Deepak Sharma completed online five-week course entitled "Getting Started with Google Sheets", offered by Google cloud services on July 26, 2020.
- Dr. Deepak Sharma completed online ten-week course entitled "The Science of Well-Being", offered by the Yale University, completed on July 10, 2020.
- Dr. Narendra Singh attended International Webinar "Micro fabrication Technology" organized by department of Microelectronics, Technical University of Sofia, Bulgaria, on July 9, 2020.
- Dr. Deepak Sharma completed online four-week course entitled "Introduction to Research for Essay Writing", from University of California, Irvine on July 8, 2020.
- Dr. Narendra Singh attended webinar on "Swarm Intelligence Algorithms", organized by department of Electronics and Communication Engineering, St. Joseph's College of Engineering, New Delhi, on July 3, 2020.
- Dr. Narendra Singh attended online webinar Impact of COVID-19 on physical and mental health on June 22, 2020.
- Dr. Jitendra Kanungo attended three-day online faculty development program on "Effective Teaching Pedagogy" organized by Inderprastha Engineering College, Ghaziabad during July 20-22, 2020.
- Dr. Jitendra Kanungo completed online Course Linear Circuits 1: DC Analysis, Coursera/Georgia Institute of Technology, North Avenue, Atlanta, GA 30332 on July 13, 2020.
- Dr. Deepak Sharma completed an online course of one-week entitled "COVID-19 Contact Tracing", offered by the Johns Hopkins University, on July 12, 2020.
- Dr. Ravi Kumar attended faculty development program on "3D EM Simulation using CST Studio Suite" organized by Department of Electronics and Communication Engineering, KL University in coordination with Jyoti Electronics during June 22-26, 2020.
- Dr. Subodh Kumar Singhal attended online webinar Impact of COVID-19 on Physical and Mental Health on June 22, 2020.



Model designed by students in Robotics Workshop organised during January 22-23, 2020.

- Dr. Subodh Kumar Singhal attended Developing online Practitioner on June 20, 2020.
- Dr. Subodh Kumar Singhal attended IEEE Remote Access: Strategies and Tips for Organizing a Virtual Learning Environment on May 7, 2020.
- All the faculty members of ECE department attended on Online training on "IEEE Remote Access: Strategies and Tips for Organizing A "Virtual Learning Environment", organized by IEEE and JUET, Guna on May 7, 2020.
- Dr. Narendra Singh attended webinar on "Introduction to PLC Programming" on May 4, 2020.
- Dr. Ravi Kumar completed a non Credit Specialization Course on "Python for Everybody" during May 4- June 28, 2020.
- All the faculty members of ECE department attended online workshop on "Academic Research methodology, Publication and Ethics" organized through webinar on April 28, 2020
- Dr. Narendra Singh attended online workshop on "PCB design" on April 12, 2020.

D: Ph.D. Awarded:

- Ph.D. degree has been awarded to Mr. Veervrat Singh Chandrawanshi by the University for his Thesis entitled, "Energy Efficient Clustering and Multiple Base Stations Positioning for Wireless Sensor Networks", under the supervision of Dr. Rahul Pachauri and Dr. Rajiv Kumar Tripathi in June 2020.
- Ph.D. degree has been awarded to Mr. Mahesh Kumar Singh by the University for his Thesis entitled, "Text-Dependent Speaker identification under Disguised Environment Using MFCC Feature Extraction and Classification Techniques", under the supervision of Dr. Narendra Singh and Dr. Ashutosh Kumar Singh in March 2020.

E: Student's Activities

Following events have been organized during the period:

- Fundamentals of Image processing : February 10-12, 2020
- Line follower : January 24, 2020
- Robotics workshop : January 22-23, 2020
- Beerendra Patel, PhD Scholar attended a webinar on "Beyond CMOS: opportunities and Challenges" organized by National Institute of Technology, Patna held on May 23, 2020.
- Manoj Kumar, PhD Scholar attended four days webinar on "Research, Technology Trends in Digital Future and Media Responsibility" held at Dr.Vitthalrao Vikhe Patil College of Engineering, Ahmednagar during May 21 -24, 2020.
- Manoj Kumar, PhD Scholar attended Webinar on "Robotic Process Automation" organized by AISSMS College of Engineering, Pune held on May 14, 2020.
- Beerendra Patel, PhD Scholar attended a webinar on "Comprehensive study of different Transform in signal processing" organized by Aditya Engineering College, Surampalem, AP, held on May 2, 2020.
- Hare Krishna, PhD Scholar attended online workshop on "Machine Learning" organized by Tata Steel, during May 1-5, 2020.
- Manoj Kumar, PhD Scholar attended "Faculty Development Program on Latex" held at Pimpri Chinchwad College of Engineering during April 14-19, 2020.
- Dharmendra Jain, PhD Scholar attended "35th MP Young Scientist Congress" held at Shri G.S. Institute of Technology and Science, Indore during February 28-29, 2020.
- Dharmendra Jain, PhD Scholar attended "International Conference on Advanced Materials and Nanotechnology (AMN-2020)" held at Jaypee Institute of Information and Technology, Noida during February 20-22, 2020.
- Hare Krishna, PhD Scholar attended workshop on "Recent Trends in Microwave Devices and Antenna" held at Vinoba bhawe University, Hazaribagh, during February 10-14, 2020.
- Amit Shivhare, PhD Scholar attended "workshop on ICT tools for teaching learning process" and Institutes held at Jaypee University of Engineering and Technology, Guna during January 13-17, 2020.

MECHANICAL ENGINEERING

A: Publication in Journals

- Kiran Kumar Sahu and Yashwant Kumar Modi, "Investigation on dimensional accuracy, compressive strength and measured porosity of additively manufactured calcium sulphate porous bone scaffolds", Materials Technology, DOI: 10.1080/10667857.2020.1774728, July 2020.



Making of All Terrain Vehicle (ATV) for M-Baja Competition organised by SAE India.

- Kedari Lal Dhaker, Bhagat Singh and Yogesh Shrivastava, "Experimental investigation and parametric optimisation of the hole-circularity and recast layer during the laser trepan drilling", Australian Journal of Mechanical Engineering, DOI:10.1080/14484846.2020.1794522, July 2020.
- Dhananjay R. Mishra, Abhay Bajaj, Rajat Bisht, "Optimization of multiple kerf quality characteristics for cutting operation on carbon-basalt-Kevlar29 hybrid composite material using pulsed Nd:YAG laser using GRA", CIRP Journal of Manufacturing Science and Technology, , DOI:10.1016/j.cirpj.2020.05.005, May 2020.
- Pankaj Dumka, Ananya Jain, Dhananjay R. Mishra, "Energy, exergy, and economic analysis of single slope conventional solar still augmented with an ultrasonic fogger and a cotton cloth", Journal of Energy Storage Vol. 30, No. 101541, DOI:10.1016/j.est.2020.101541, May 2020.
- Girish Dutt Gautam, Dhananjay R. Mishra, "Multiple kerf quality optimization in Nd:YAG laser cutting of BFRP composite using grey relational based genetic algorithm, FME Trans", Vol. 48, pp. 636-650, DOI:10.5937/fme2003636G, May 2020.
- Pankaj Dumka, Dhananjay R. Mishra, "Comparative Experimental Evaluation of Conventional Solar Still (CSS) and CSS Augmented with Wax Filled Metallic Finned-Cups", FME Transactions, Vol. 48, PP. 482-495, DOI:10.5937/fme2002482D, March 2020.
- Pankaj Gupta and Bhagat Singh, "Investigation of tool chatter features at higher metal removal rate using sound signals", Acoustics Australia, Vol. 48, pp. 141-148, March 2020.
- Pankaj Dumka, Dhananjay R. Mishra, "An estimation of the distillate output from a CSS based on multivariable regression analysis", International Journal of Ambient Energy, DOI:10.1080/01430750.2020.1736625, March 2020.
- Manoj Dubey, Dhananjay R. Mishra, "Experimental evaluation of double slope solar still augmented with ferrite ring magnets and a black cotton cloth", International Journal of Ambient Energy, Vol. 750, DOI: 10.1080/01430750.2020.1722746, January 2020.
- Pankaj Dumka, Dhananjay R. Mishra, "Performance evaluation of single slope solar still augmented with the ultrasonic fogger", Energy, Vol. 190, No. 116398, DOI:10.1016/J.ENERGY.2019.116398, January 2020.

B: Publication of Book Chapter

- Priyanka Joshi, Amit Sharma, and Vivek Singh, "Empirical Modelling of Kerf Characteristics in Laser Profile Cutting of Ni-Superalloy", Smart Innovation, Systems and Technologies (SIST) book series, Springer, Singapore, Vol. 174, pp. 655-664, DOI:10.1007/978-981-15-2647-3_61, June 2020.
- Akshay Jain, Bhagat Singh and Yogesh Shrivastava, "Identification of safe machining range for laser drilling of basalt-glass hybrid composite using artificial neural network", Smart Innovation, Systems and Technologies (SIST) book series, Springer, Singapore, Vol. 174, Chapter 72, pp. 767-775, DOI:10.1007/978-981-15-2647-3_61, June 2020.
- Girish Dutt Gautam and Dhananjay R. Mishra, "Pulsed Nd:YAG laser cutting: Accuracy improvement and parametric influences", Accuracy Enhancement Technologies for Micromachining Processes, Book Series: Lecture Notes in Mechanical Engineering, Springer Nature, DOI: 10.1007/978-981-15-2117-1_6, February 2020.
- Navneet Khare, G. Sharma, Yashwant Kumar Modi, "Finite Element Analysis of Patient-Specific Femur Bone for Synthetic Biomaterials. In: Biswal B., Sarkar B., Mahanta P. (eds) Advances in Mechanical Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp. 649-659, DOI: https://doi.org/10.1007/978-981-15-0124-1_58, January 2020.

C: Conferences/Seminars/Webinar/Workshops Participated

- All faculty members of the department attended webinar "Online teaching-learning" organized by Jaypee University of Engineering and Technology, Guna, India on August 14, 2020.
- All faculty members of the department attended webinar "Online teaching-learning" organized by Jaypee University of Engineering and Technology, Guna, India on August 11, 2020.
- All faculty members of the department attended webinar on "Use of Emerging Technologies and Our Changing Role" organized by Department of Mechanical Engineering, Jaypee University of Engineering and Technology, Guna, India on July 26, 2020.
- Dr. Bhagat Singh presented paper entitled, "Investigation of flexural properties of fabricated hybrid fibres reinforced composites" in International Conference "ICAAMM-2020", organized by Department of Aeronautical & Mechanical engineering, MLR Institute of Technology, Hyderabad held on July 24 - 25, 2020.
- Dr. Yashwant Kumar Modi attended a Webinar on "Mental Health for Teachers" organised by Instt of Professional Studies, GWL, Online on July 22, 2020.
- All faculty members of the department attended webinar on "Opportunities and future prospects of mechanical engineering" organized by Department of Mechanical Engineering, Jaypee University of Engineering and Technology, Guna, India on July 19, 2020.



Model made by students of MEC in All Terrain Vehicle (ATV) design competition organized by SAEINDIA during March 5-8, 2020 at Chitkara University, Chandigarh.

- Dr. Yashwant Kumar Modi attended a webinar on “Emotional Intelligence”, organised by Unicorn people in association with MaTPO, on July 19, 2020.
- Dr. Bhagat Singh, Dr. Amit Sharma, Dr. Yashwant Kumar Modi and Dr. Subas Dash attended webinar "State Level Online Awareness Programme on PDS-ShodhShuddhi in Madhya Pradesh", organized by ShodhShuddhi, The Ministry of Education, Govt. of India on July 15, 2020.
- Dr. Bhagat Singh attended webinar “Diversity And Culture – Strategies For Working With Differences”, organized by Achieve Centre For Leadership & Workplace Performance, Minneapolis, USA on June 28, 2020.
- Dr. Bhagat Singh completed the course entitled “Fundamentals of peer review” offered by Researcher Academy, Elsevier, on June 28, 2020.
- Dr. Bhagat Singh completed the course entitled “Open science” offered by Researcher Academy, Elsevier, on June 25, 2020.
- Dr. Bhagat Singh completed the course entitled “Finding the right journal” offered by Researcher Academy, Elsevier, on June 25, 2020.
- Dr. Bhagat Singh completed the course entitled “Book writing” offered by Researcher Academy, Elsevier, on June 23, 2020.
- Dr. Bhagat Singh completed the course entitled “Research collaborations” offered by Researcher Academy, Elsevier, on June 23, 2020.
- Dr. Bhagat Singh completed the course entitled “Research data management” offered by Researcher Academy, Elsevier, on June 22, 2020.
- Dr. Bhagat Singh attended webinar “Introduction wheeled mobile robots and challenges” organized by Department of Mechanical Engineering, Poornima College of Engineering, Jaipur, India on June 17, 2020.
- Dr. Bhagat Singh attended webinar “Finite element modelling of metal forming” organized by Department of Mechanical Engineering, Poornima College of Engineering, Jaipur, India on June 5, 2020.
- Dr. Bhagat Singh attended webinar “Challenges to Food Safety & Government Guidelines during Covid-19 Pandemic” organized by Department of Mechanical Engineering, Priyadarshini Bhagwati College of Engineering, Nagpur, India on June 4, 2020.
- Dr. Bhagat Singh attended webinar “Net Zero Energy Building” organized by Department of Mechanical Engineering, Poornima College of Engineering, Jaipur, India on June 3, 2020.
- Dr. Bhagat Singh attended webinar on “Introduction to vehicle accident reconstruction and injury biomechanics” organized by Department of Mechanical Engineering, Galgotias College of Engineering & Technology (GCET), Greater Noida, India, June 3, 2020.
- Mr. Manoj Dubey organized a webinar on “Use of Technology and Our Changing Role” on July 26, 2020. The webinar was delivered by alumnus of the department Mr. Ravikesh Tripathi, IRS (2013-batch).
- Dr. Yashwant Kumar Modi delivered a webinar on “Medical Applications of Additive Manufacturing” organized by Department of Mech Engg., Galgotias College of Engg and Tech. Greater Noida on May 20, 2020.
- Dr. Amit Sharma and Dr. Yashwant Kumar Modi attended an online workshop on “Academic Research Methodology Publication and Ethics”, organised by Elsevier, Delhi, April 28, 2020.
- Dr. Yashwant Kumar Modi delivered an invited lecture on “Automation in Industries” in one week FDP on “Recent Trends in Manufacturing System & Industrial Practices”, organized by Govt. S. V. Polytechnic College, Bhopal on March 04, 2020.
- Dr. Yashwant Kumar Modi delivered invited talk on “Recent Development in Additive Manufacturing” in FDP sponsored by APJ Abdul Kalam Technical University, Lucknow, UP under TEQIP-III, organized by Galgotias College of Engineering and Technology, Greater Noida on January 17, 2020.

D: Conference/Seminar/Webinar/Workshop Organised

- The department in association with Civil Engineering department organized an online competition “CADAction-2020” during June 01-20, 2020.
- Dr. Yashwant Kumar Modi organized a webinar on “Opportunities and Future Prospects of Mechanical Engineering” on July 19, 2020. Two of the alumni of the department Mr. Ravi Godawarker, Corsair Memory, USA (2012-batch) and Mr. Uday Mehroratra, Category Associate, Unacademy, Bengaluru (2016-batch) shared their experiences during the webinar.

E: Ph.D. Awarded

- Ph.D. degree has been awarded to Mr. Akshay Jain by the University for his thesis entitled, “Ascertaining optimal process parameters for laser cutting and drilling of basalt-glass hybrid composite”, under the supervision of Dr. Bhagat Singh in July, 2020.



Project demonstration by MEC student in "Science Trick" competition held on January 27, 2020.

- Ph.D. degree has been awarded to Mr. Girish Dutt Gautam by the University for his thesis entitled, "Experimental investigations of multi response optimization in pulsed Nd:YAG laser cutting of novel FRP composite materials, process", under the supervision of Dr. Dhananjay R. Mishra in February, 2020.

G: Student's activities

- Team Ardent Clan Motorsports, consisting of 13 B.Tech. students of the department participated in M-Baja, an All Terrain Vehicle (ATV) design competition organized by SAEINDIA during March 5-8, 2020 at Chitkara University, Chandigarh.
- Mechanical Engineering Society (MES) organised "Science Trick" competition on January 27, 2020.

H: Students Achievements

- Shivam Kumar Mishra (161E037) scored 722 marks in GATE-2020 and secured 1960th rank.

CHEMISTRY

A: Publication In Journals

- Sunil Kumar Srivastava "Advancement in biogas production from the solid waste by optimizing the anaerobic digestion", Waste Disposal and Sustainable Energy Vol. 2, No. 2, pp. 85-103, April 2020.
- Deepak Agrawal, Sudip K De and P.K. Singh "Synthesis and characterization of post-metallocene titanium complexes of bidentate dicarboxylic acids and studies on the effect of ring size on their polymerization activity at room temperature in aqueous emulsion", Journal of Polymer Research, Vol. 27, No. 4, pp.1-9, March 2020.

B: Conference/Seminar/Workshop Participated

- Prof P. K. Singh participated in online conference "16th Green Cementech- 2020" organized jointly by Cement manufacturers association and Confederation of Indian industry, during June 24-26, 2020.
- Prof P. K. Singh participated in online workshop "Incorporating Human Values in Technical Education" organized by AICTE during April 26-30, 2020.

C: Consultancy

Prof P. K. Singh is providing consultancy to DCM Shriram Cement, Kota (Rajasthan) in the following areas:

- Improvement in consistency and compressive strength of cement
- Utilization of hazardous wastes as alternative fuel.

HUMANITIES AND SOCIAL SCIENCES

A. Publication In Journals

- Shekhar Singh and Sandeep Srivastava, "Exploring the moderating role of product type in Indian m-commerce fashion and electronics market", International Journal of Logistics Systems and Management, Volume 36, No. 1, pp. 61-91, May 2020.
- Tammana Agarwal, Sandeep Arya and Kamini Bhasin, "Employer branding and its impact on employee engagement: A literature review", International Journal of Advanced Science and Technology, Volume 29, No. 4, pp 1438 - 1446, March 2020.

B: Conference/Seminar/Webinar/Workshop Participated

- Dr. Rachna Chaturvedi attended Social entrepreneurship in rural education using affordable technology and crowd sourcing Model conducted by CSI Chennai, ACM Chennai and IEEE CS madras on August 01, 2020.
- Dr. Kamini Bhasin, Mr. Neeraj Jain and Dr. Sandeep Srivastava attended a State Level Online Awareness Programme on (PDS-Plagiarism Detection Software) under ShodhShuddhi Project in Madhya Pradesh on July 15, 2020.
- Dr. Kamini Bhasin attended a webinar on "SFW - Preparing for Work" conducted by CAMBRIDGE UNIVERSITY on July 14 2020.
- Dr. Shekhar Singh participated in online MDP on "How to conduct Qualitative Research" conducted by IJHMR University, Jaipur during June 24-26, 2020.
- Dr. Shekhar Singh participated in online workshop on "Data Analytics using R" conducted by IJHMR University, Jaipur during June 19-23, 2020.
- Dr. Shekhar Singh attended online five-day FDP on "Research Methods and Advance data analytics" conducted by Koach Scholar during June 17-21, 2020.
- Dr. Shekhar Singh participated in one-week online FDP on "Quantitative methods for research" conducted by Pacific University, Udaipur during June 10-15, 2020.



Six Ph.D. degrees have been awarded by the University during Even Semester A.Y. 2019-20.

Departments	No. of Ph.D Awarded
CSE	01
ECE	02
MEC	02
HSS	01

- Dr. Rachna Chaturvedi delivered Expert lecture on “Design Thinking: Role of Human centered approach” at Shreenidhi Institute of science& Technology, Hyderabad on June 05, 2020.
- Dr. Sandeep Srivastava delivered Expert lecture on “Design Thinking: Use of design thinking for more relevant marketing” at Shreenidhi Institute of science& Technology, Hyderabad on June 03, 2020.
- Dr. Shekhar Singh completed one-week certificate course on “SEM-PLS Analysis using SMART PLS” conducted by Research Shiksha during May 25-30, 2020.
- Dr. Sandeep Srivastava has participated IBM Webinar invitation: Impact of CORONA virus on Higher Education Institutes on May 07, 2020.
- Dr. Kamini Bhasin attended a workshop on Academic Research methodology, Publication and Ethics, conducted by AICTE on April 28, 2020.
- Dr. Rachna Chaturvedi Attended CRO Incorporating Universal Human Values in Technical Education (An AICTE Initiative)” during April 26-30, conducted by AICTE.
- Dr. Abhishek Shukla attended FDP on ‘Outcome based Education’ of 21 days conducted by AICTE. March 24 to April 14, 2020.
- Dr. Sandeep Srivastava has participated Initiatives taken by UGC during national lockdown shared by Prof. D.P. Singh, Chairman, UGC on April 14, 2020.
- Mr. Neeraj Jain attended a session on Existing Process of Assessment and Accreditation by NAAC “in JUET, Guna on March 05, 2020.
- Dr. Sandeep Srivastava, Dr. Rachna Chaturvedi, Dr. Vikram Singh, Dr. Kamini Bhasin attended a FDP on “ICT Tools for Teaching, Learning Process & Institutes” conducted by the Ministry of Electronics and Information Technology (MeitY), Government of India during January 13-17, 2020.

C: Conferences/Seminars/Webinar/Workshops organized

- Dr. Abhishek Shukla organized one-day webinar titled ‘Prospects of New Technologies in Pandemic situation, on June 16, 2020.
- Dr. Abhishek Shukla organized three-day webinar titled ‘Building career in Emerging Technology during COVID-19, on May 12-14, 2020.

D: Ph.D. Awarded

- Ph.D. degree has been awarded Ms. Khushboo Kumar for the thesis entitled ‘An exploration of person environment fit, gender ideology, job life satisfaction and turnover intention among indian working mothers: A work life balance perspective’ under the supervision of Dr. Rachna Chaturvedi in February 2020.

E: Faculty Seminar

- Dr. Abhishek Shukla delivered a seminar on “Does Selective attention affect cognitive learning” on March 06, 2020.

MATHEMATICS

A: Conference/Seminar/Webinar/Workshop Participated

- Dr. D.K. Sharma attended “Weekly Webinar/Workshop on Atmospheric Processes and Applications of Computational Mathematics” organized by Department of Applied Mathematics, Gautam Buddha University & Indian Meteorology Society (Noida Chapter) during June 5-20, 2020.
- Dr. D.K. Sharma attended 5 Day “National Level Online FDP on Artificial Intelligence” organized by Department of Computer Science and Engineering, SEEC, Hyderabad in collaboration with National youth council of India and Brainovision solutions India during May 22-26, 2020.
- Dr. D.K. Sharma and Dr. B.R Gupta attended the one week International webinar on "Education 4.0" organized by IQAC of D Y Patil College of Engineering, Pune from May 5-11, 2020.
- Dr. Bali Ram Gupta attended an online training of the IEEE Remote Access: Strategies and Tips for organizing a "Virtual Learning Environment" conducted at Jaypee University of Engineering and Technology, Guna on May 7, 2020.
- Dr. D.K. Sharma and Dr. B.R Gupta attended three-week 8 credit course on “Whatsapp Outcome Based Education Faculty Development Program” organized by D Y Patil College of Engineering, Pune held from March 24 to April 14, 2020.
- Dr. D.K. Sharma, Dr. B.R Gupta and Dr. Divya Jain attended one-week faculty development programme on “ICT Tools for Teaching, Learning Process & Institutes” jointly organized by Electronics and ICT academies at Jaypee University of Engineering and Technology, Guna during Jan 13-17, 2020.

See your goal
 Understand the obstacles
 Create positive influential picture
 Clear your mind of self-doubt
 Embrace the challenge
 Stay in touch
 Show the world you can do it
...SUCCESS

TRAINING AND PLACEMENT

More than 80 companies conducted in-campus recruitment and around 10 off-campus recruitment opportunities provided for 2020 batch. Major recruiters are Shopee AirPay, AMAZON, One Direct, GOOGLE, Aditya Birla Capital Ltd., Byjus, Air Bus, ZS Associates, Accolite Software Pvt. Ltd., Infosys Ltd, HashedIn Technologies, TATA Consulting Service Ltd, Kuliza Technologies, Valuefy Solutions, TrustNet Tech., McKinley & Rice Creativity Pvt. Ltd., TestBook, GEEKS FOR GEEKS, Gradeup, Hitachi Consulting Corporation, Octro Inc., Cognizant Technology Solutions, IIMJobs.com, Kritikal Vision (Solutions), Sourcefuse Technologies, Syandan Technologies, Rockwell Automation Inc., Abhidhya Technologies, Samrter Codes, Wyzen Systems Pvt. Ltd., Samsung Display Pvt. Ltd., Venus Equipments Ltd., IndiaLends, WSP Global, Cognizant Infrastructure Services, ORI Serve, VR AR MR, ClassPlus, Ceasefire Industries Pvt. Ltd., Sports Keeda, Uplers Solutions Pvt. Ltd., Ericsson India, Adani Wilmar Ltd., Deltecs Infotech Pvt. Ltd.(Drona HQ), Growthfile Analytics Pvt. Ltd., Reliance Jio Infocomm Limited, NIIT Technologies, Wipro Ltd., DXC Technologies Ltd., Collabera, CredenTek Software & Consultancy Pvt. Ltd., Extramarks, MapMyIndia, JMC Projects (India) Ltd. (Kalpataru Group), ORI, OverSeas Travels Ltd.

- B.Tech-CSE student Shubham Tyagi received highest package of ₹41.0 Lakhs/PA by Shopee AirPay.
- B.Tech-CSE students B. Poorna and Harsh Srivastava received 2nd highest package of ₹28.0 Lakhs/PA by AMAZON.
- B.Tech-CSE students Avi Anand, Gaurav Dhingra and Vikrant Srivastava received package of ₹20.0 Lakhs/PA by One Direct.
- B.Tech-CSE students Aparna Dubey and Dev Agarwal received package of ₹13.0 Lakhs/PA by Google.
- B.Tech-CSE student Vartika Yadav received package of ₹13.0 Lakhs/PA by Aditya Birla Capital Ltd.
- B.Tech-ME students Kunal Sinha and Vineet Tripathi received package of ₹10.0 Lakhs/PA by Byjus.
- B.Tech-CE student Yukti Chauhan received package of ₹10.0 Lakhs/PA by Byjus.
- B.Tech-CSE student Anurag Arora received package of ₹10.0 Lakhs/PA by Byjus.
- B.Tech-CSE student Rashmi Agnihotri received package of ₹9.0 Lakhs/PA by Aditya Birla Capital Ltd.
- B.Tech-CE student Shanu Bhatt received package of ₹8.93 Lakhs/PA by ZS Associates.
- B.Tech-CSE students Harsh Srivastava, Pawan Kumar Mishra and Shubham Tyagi received package of ₹8.0 Lakhs/PA by Accolite Software Pvt. Ltd.
- B.Tech-CSE students Satyam Prakash and Shakir received package of ₹8.0 Lakhs/PA by Infosys through HackwithInfy and InfyTq National Hiring respectively for Power Programmer Profile.
- B.Tech-CSE students Khushboo Parwani, Prashant Tyagi and Utkarsh Mishra received package of ₹7.6 Lakhs/PA by TATA Consulting Service Ltd. through TCS Digital National Hiring.
- B.Tech-CSE students Abhishek Sharma, Ajitesh Singh, Amitesh Srivastava, Ankit Saxena and Rituraj Mishra received package of ₹7.5 Lakhs/PA by Kuliza Technologies.
- B.Tech-CSE students Chirayu Brijwani, Prakhar Gupta and Santanu Raj Kapil received package of ₹7.5 Lakhs/PA by Valuefy Solutions.
- B.Tech-CSE students Aseem Agarwal, Bhanu Pratap and Siddhant Agnihotri received package of ₹7.2 Lakhs/PA by TrustNet Tech.
- B.Tech-CSE students Rishabh Jain and Shrey Gupta received package of ₹7.0 Lakhs/PA by McKinley & Rice Creativity Pvt. Ltd.
- B.Tech-CSE students Ritwik Shanker and Sidharth Gupta received package of ₹7.0 Lakhs/PA by TestBook.
- B.Tech-ME students Chitransh Kaustubh and Tapish Gupta received package of ₹4.5 Lakhs/PA by Samsung Display Pvt. Ltd.
- B.Tech-ME student Sanchay Srivastava received package of ₹4.5 Lakhs/PA by Venus Equipments Ltd.
- B.Tech-ME Student Rahul Rathore received package of ₹3.6 Lakhs/PA by Adani Wilmar Ltd.
- B.Tech-CE Students Anand Gaurav Yadav, Rohit Sahu, Shubhranshu Singh and Naman Mehra received package of ₹3.0 Lakhs/PA by JMC Projects (India) Ltd. (Kalpataru Group).



Indian Rock band from Delhi “The Local Train” performed during DEQUINOX-2020.

- B.Tech-ME Students Vivek Singh and Puneet Gupta received package of ₹3.0 Lakhs/PA by JMC Projects (India) Ltd. (Kalpataru Group).
- B.Tech-12 students (less than 6 CGPA) are also placed.
- 6 Companies placed students with CTC between ₹10.0 & ₹41.0 Lacs.
- 21 Companies placed students with CTC between ₹6.0 & ₹9.0 Lacs.
- 35 Companies placed students with CTC between ₹3.0 & ₹5.0 Lacs.
- Overall placement percentage offer wise is 145.95%.
- 117 Students are placed in more than one company.
- Average package offered to students is approx. ₹5.5 Lakhs/PA.
- 288 students have been offered CTC ₹4.0 Lakhs/PA and above.

JUET YOUTH CLUB (JYC)

Following activities have been conducted by various wings of JYC during July 01 to August 16, 2020:

- | | |
|-------------------------------------|---------------------------------|
| ▪ Independence Day | : August 15, 2020 |
| ▪ Hindi Play: Tripling | : March 04, 2020 |
| ▪ Cricket Premier League | : February 20 to March 06, 2020 |
| ▪ DEQUINOX: The Cultural Fest | : February 20-22, 2020 |
| ▪ Saraswati Puja | : January 30, 2020 |
| ▪ Interyear Handball Championship | : January 20-30, 2020 |
| ▪ Interyear Volleyball Championship | : January 14-22, 2020 |
| ▪ Cultural Evening | : January 18, 2020 |

LEARNING RESOURCE CENTRE (LRC)

- A new online e-resource IEEE ASPP for e-journals has been added.
- Springer Nature and IEEE CSDL on-line e-resources for e-journals have been renewed.
- LRC subscribed DELNET, a major resource sharing library network in India; connecting more than 6800 libraries in 33 states and 8 countries.
- Demonstration of Magzter organised on January 9, 2020.

PROMOTIONS AND APPOINTMENTS

- Prof. Ghanshyam Singh joined the department of Mechanical Engineering as HOD on January 1, 2020.
- Mr. Shubham Kumar Tiwari joined department of Mechanical Engineering as Lab assistant on January 1, 2020.
- The pay scale of Mr. Rohini Prasad Dwivedi, Mr. Arun Kumar Tripathi and Mr. Prem Lal Kushwaha has been upgraded.



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