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### Contents

- Days of National Importance Celebration
- Important Events
- Convocation
- Outreach and Extension Activities
- Alumni Achievements
- Achievements - (Department-wise)
- Training & Placement Activities
- JUET Youth Club (JYC)
- Learning Resource Centre (LRC)
- Promotions & Appointments

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- Dr. Kamini Bhasin
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### DAYS OF NATIONAL IMPORTANCE CELEBRATION

- National Mathematics Day celebration was held during January 04-10, 2024. The event was sponsored by M. P. Council of Science and Technology, Bhopal, MP.
- International Yoga Day was celebrated on June 21, 2024. Yoga was performed by faculty, staff and students in Tagore Hall.
- Republic Day was celebrated on January 26, 2024. National Flag was hoisted by Prof. D.K. Rai, Hon'ble Vice Chancellor who addressed attendees and delivered motivational speech on the occasion.
- Workers Day was celebrated on the occasion of birthday of Founder Chairman Shri J.P. Gaur Ji on January 02, 2024.
- National Science Day was celebrated during first week of March 2024 in association with MPCST Bhopal. Prof. Anshuman Dalvi, BITS Pilani and Prof. Ganesh Bagler, IIIT, Delhi delivered expert lectures on this occasion.

### IMPORTANT EVENTS

- Fourth Convocation of the University took place on June 02, 2024.
- Shri Manoj Gaur ji, Hon'ble Executive Chairman, JP Group and Prof. S.C. Saxena, Pro Chancellor, IIIT, Noida visited the Campus to grace the 4th Convocation of the University during June 01-02, 2024.
- Brig Sanjay Dawar (Retd), Head, Training & Placement, IIIT Noida, visited the Campus and guided students for Training & Placement activities on February 20, 2024.
- University Academic Management Committee Meeting held on January 15, 2024.
- MPPURC team visited JUET campus on 25 May 2024.
- Address by Hon'ble VC on 22 Mar 2024.

### CONVOCATION

- The fourth Convocation Ceremony of the University was held on June 02, 2024. Shri Manoj Gaur Ji, Hon'ble Executive Chairman of JP Group, Mr. Jaivardhan Singh, Hon'ble MLA, Raghogarh Constituency and Prof. S.C. Saxena Ji, Pro Chancellor, IIIT, Noida grace the occasion. The ceremony witnessed a momentous occasion for the students graduated in year 2019, 2020, 2021, and 2022, their families, and the entire JUET fraternity. It marked the culmination of their years of hard work and dedication as 1387 graduating scholars received their degrees.



**International Yoga Day  
on June 21, 2024**

## OUTREACH AND EXTENSION ACTIVITIES

- A blood donation camp was organized at Medical Center, JUET in association with Red Cross Society, Guna on April 20, 2024. 26 units of blood were donated by the students and staff of JUET.

## ALUMNI ACHIEVEMENTS

- Mr. Gaurav singh, alumnus of B.Tech. CE, batch 2018-22 is pursuing M.Tech. (Transportation Engineering) from MNNIT, Prayagraj.
- Mr. Shubranshu Singh, alumnus B.Tech. CE, batch 2018-22, has been awarded with “finest Concrete structure Award-year 2023” under commercial category by Indian Concrete Institute-(Varanasi) chapter-JK Cements award on January 19, 2024.
- Mr. Tamjeed Ahmed, alumnus B.Tech. CE, batch 2016-19 joined DLF.
- Ms. Shreya Joshi, alumnus of B.Tech. CE, batch 2015-18 joined Currie and Brown, London office as Assistant Project Manager, after completion of her M.Sc. in Construction Project and Management from Queens University, Ireland.
- Dr. Durgesh Nandan an alumnus of PhD ECE, (Low Power VLSI Design) Engineering, batch 2014-18 has joined as Associate Professor at SR University, Warangal, Telangana.
- Mr. Md. Gufran an alumnus of B.Tech ECE, batch 2013-17 has joined as Product Validation Engineer II at Cadence Design Systems, Noida.
- Mr. Aditya Singh, alumnus B.Tech. CE (2012-16) joined STV Inc. Huston, USA as Project Controls Specialist.
- Mr. Sidharth Sanadhya, alumnus of B.Tech. ME, batch 2011-15, has been awarded Ph.D. by Mechanical and Aerospace Engineering Department, University of Florida, USA. He won the “Best Dissertation” award for the year 2023-24.
- Mr. Shashank Gupta an alumnus of B.Tech ECE, batch 2008-12 has joined as Solution Manager at Deloitte Consulting, Greater Harrisburg Area, US.
- Ms. Jasmine Sachdeva an alumna of B.Tech ECE, batch 2008-12 is promoted to a Senior Manager, Data Analysis at Capital One, McLean, Virginia, United States.
- Mr. Avijit Gupta an alumnus of B.Tech ECE, batch 2005-09 is promoted to Senior Staff Software Engineer at Intuit, Bengaluru.
- Mr. Ankit Gupta an alumnus of B.Tech ECE, batch 2004-08 is promoted to Assistant General Manager at UCO Bank, Kolkata.
- Mr. Devanshu Singh an alumnus of B.Tech ECE, batch 2004-08 is promoted to Senior Consultant at Infosys, Bengaluru.
- Mr. Amit Agarwal an alumnus of B.Tech ECE, batch 2004-08 is promoted to Vice President Instrument at GPS Renewables, Bengaluru.
- Ms. Shreya Mishra an alumna of B.Tech ECE, batch 2004-08 is promoted to Sr. Worldwide GTM Specialist Serverless at Amazon Web Services (AWS), Seattle, Washington, US.





## ACHIEVEMENTS (DEPARTMENT WISE)

### CHEMICAL ENGINEERING

#### A: Publication in Journals

- Rahul Kumar, Amit K. Thakur, Pranava Chaudhari, Raj Kumar Arya, **Kaushal Naresh Gupta**, Devyani Thapliyal, Amita Bedar, R. Shruti Krishna, and Kancharlapalli Chinaraaga Pitchaiah, "Nanoparticle preparation of pharmaceutical compounds via wet milling: Current status and future aspects", Powder Technology, Vol. 435, pp. 119430, January 2024.
- Devyani Thapliyal, **Rahul Shrivastava**, George D. Verros, Sarojini Verma, Raj Kumar Arya, Pramita Sen, Shiv Charan Prajapati, Chahat, and Ajay Gupta, "Modeling of Triphenyl Phosphate Surfactant Enhanced Drying of Polystyrene/p-Xylene Coatings Using Artificial Neural Network", Processes, Vol. 12, N. 2, pp. 260, January 2024.

#### B: Conference/Seminar/Webinar/Workshop/FDP Participated

- Dr. Kaushal Naresh Gupta delivered a lecture through online mode in one week "Teachers' Training Program in Chemistry" for teachers of Jaypee schools, held at JIIT Noida during May 20-25, 2024.
- Dr. Rahul Shrivastava attended online "NEP 2020 Orientation & Sensitization Programme" under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) during January 01-11, 2024.

### CIVIL ENGINEERING

#### A: Publication in Journals

- Sumit Gandhi, Yogesh Iyer Murthy and Ram Pal Singh, "Response Surface Method Approach for Analyzing Flow Characteristics in An Abruptly Expanding Channel", Engineering and Computational Mechanics (Proceedings of the ICE), DOI: <https://doi.org/10.1680/jenmc.24.00014>, June 2024.
- Shikha Pandey, Sumit Gandhi and Yogesh Iyer Murthy, "Unveiling optimal half-cell potentials in RCC slabs through cutting-edge ANFIS, ANN and genetic algorithm integration", Anti-Corrosion Methods and Materials, DOI: <https://doi.org/10.1108/ACMM-01-2024-2950>, May 2024.
- Yogesh Iyer Murthy, Nitin Kumar Samiya and Sanjeev kumar Ahirwar, "Interplay of natural and anthropogenic inputs on the groundwater contamination of Beenaganj-Chachura block", Water Science & Technology, Vol. 89, No.10, pp. 2823-2838, May 2024.
- Dharmendra Kumar Shukla and Yogesh Iyer Murthy, "California bearing ratio of black cotton soil using soft computing techniques". Asian Journal of Civil Engineering, Vol. 25, No.5, pp. 3961-3972, April 2024.
- Shrinarayan Yadav and Dharmendra Kumar Shukla, "Strength of rock mass near the crown with inconsistent slope angle", Indian Geotechnical Journal. DOI: <https://doi.org/10.1007/s40098-024-00872-2>, February 2024.
- Yogesh Iyer Murthy, "State-of-art studies on applications of magnesium alloys in construction industry", International Journal of Structural Engineering, Vol.14, No. 2, pp. 186-202, January 2024.
- Sumit Gandhi, "Empirical Modeling of Flow Characteristics In Suddenly Expanding Channels", Journal of Applied Fluid Mechanics, DOI: <https://doi.org/10.47176/jafm.17.4.2213>, January 2024.



**Wind Engineering Application Centre was Silver Sponsor at 10th National Conference on Wind Engineering conducted during March 15-16, 2024.**



**Workshop on "Earthquake Resistant Design and Construction" on March 2nd, 2024.**

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

- Dr. Sumit Gandhi attended a webinar on “Wind Tunnel: Modeling Urban Wind Flow & Dispersion”, organized by U.S. EPA Office of Research and Development, USA, U.S. EPA’s Emergency Response Research Webinar Series on June 12, 2024
- Mr. Ravindra Kumar Goliya attended the online plenary and keynote lecture of International Conference on Geo-Disasters and Construction Engineering (ICGCE 2024) during June 07-08, 2024 at Waterloo Canada.
- Dharmendra Kumar Shukla presented a paper titled, “Evaluation of Groundwater Contamination using Entropy Weighted Water Quality Index”, at Two-Day National Seminar on G20, Diversity and Sustainable development: Challenges, Opportunities and Strategies for India, held at Jaypee University of Engineering and Technology, Guna (M.P.) during January 27-28, 2024.
- Dr. D.K.Shukla, Dr. V.S.Babu, Dr. Y.I.Murthy and Mr. S.N.Yadav attended two-week NEP-Orientation and Sensitization Program organized by Malviya Mission Teachers Training Centre, DAVV Indore during January 15-27, 2024.
- Dr. Sumit Gandhi and Mr. Ravindra Kumar Goliya attended one-week TEQIP Faculty Development Program on “Sustainable Environment- An Engineering Perspective (SEEP: 2024)”, Sponsored and organized by Department of Civil Engineering, Assam Engineering College Jalukbari, Guwahati, during January, 08-13, 2024.

**C: Conference/Seminar/Webinar/Workshop/FDP organized**

- The department organized a workshop on “Earthquake Resistant Design and Construction”, on March 02, 2024.
- Dr. V.S. Babu and Dr. Y.I. Murthy conducted an international webinar on “Exploring Civil Engineering Abroad: Opportunities and Challenges” on February 05, 2024. Nearly 100 participants across the globe participated in the event.

**D: BOS Meeting**

- 13th BOS was held on May 10, 2024.

**E: Student Achievements**

- Mr. Shikhar Goliya, cleared GATE 2024 and took admission in M. Tech. (Structural Engineering) at NIT, Silchar.

**COMPUTER SCIENCE AND ENGINEERING**

**A: Publication in Journals**

- M Pandey, R Litoriya, Prateek Pandey, PK Panigrahi, BB Gupta, “Trapezoidal fuzzy number methodology for prioritising the predictors of social media addiction” in Enterprise Information Systems, DOI: <https://doi.org/10.1080/17517575.2024.2351859>, June 2024.
- Prabhat Kumar Srivastava, Ghanshyam Singh, Neelesh Kumar Jain, Vikram Bali, “Gabor Filter and Centre Symmetric-Local Binary Pattern based technique for forgery detection in images”, Multimed Tools Appl Vol. 83, pp. 50157–50195, May 2024.
- Mishra, A.K., Jain, N.K., Singh, R.K., “Entropy assisted intuitionistic fuzzy rough bireduct method to improve the prediction of induced peculiar peptides”, African Journal of Biological Sciences (South Africa) Vol. 6, issue 9, pp. 438–452 April 2024.





**“Capacity Building in Deep Learning and Cyber Security” for School Teachers during May 13 - 17, 2024.**



**JYC Media Wing event ‘CineSanskriti’**

- M Pandey, R Litoriya, **Prateek Pandey**, “Indicators of AI in Automation: An Evaluation Using Intuitionistic Fuzzy DEMATEL Method with Special Reference to Chat GPT”, *Wireless Personal Communications* Vol. 134, issue 1, pp. 445-465, March 2024,
- Shivani Gupta, **Nileshkumar Patel, Ajay Kumar, Neelesh Kumar Jain**, Pranav Dass, Rajalaxmi Hegde, A. Rajaram, “Intelligent resource optimization for scalable and energy-efficient heterogeneous IoT devices”, *Multimed Tools Appl*, DOI: <https://doi.org/10.1007/s11042-024-18176-1>, March 2024.
- S Dubey, **D K Verma**, M Kumar “Severe acute respiratory syndrome Coronavirus-2 GenoAnalyzer and mutagenic anomaly detector using FCMFI and NSCE” *Int J Biol Macromol.* Vol. 258, part 2. DOI: 10.1016/j.ijbiomac.2023.129051, February 2024.
- Chetan Gupta, Amit Kumar, **Neelesh Kumar Jain**, “An Enhanced Hybrid Intrusion Detection Based on Crow Search Analysis Optimizations and Artificial Neural Network”, *Wireless Personal Communications*, Vol. 134, pp. 43-68, February 2024.
- Gupta, C., Kumar, A., **Jain, N.K.**, “An Enhanced Hybrid Intrusion Detection Based on Crow Search Analysis Optimizations and Artificial Neural Network”, *Wireless Pers Communication*, Vol. 134, pp. 43–68, January 2024.
- P Goyal, **D K Verma**, S Kumar “Plant leaf disease detection using an optimized evolutionary gravitational neocognitron neural network” *National Academy Science Letters.* pp 1-8, DOI: <https://doi.org/10.1007/s40009-023-01370-4>, January 2024.
- S Dubey, **DK Verma**, M Kumar “Identification of Unique Genomic Signatures in Viral Immunogenic Syndrome (VIS) Using FIMAR and FCSM Methods for Development of Effective Diagnostic and Therapeutic Strategies” *Economic Computation and Economic Cybernetics Studies and Research*, Vol. 58, issue 2, pp. 165–181, 2024.
- M Pandey, R Litoriya, **Prateek Pandey**, “An integrated MCDM approach for mobile app cost predictor based on DEMATEL extended with choquet integral” in *Multimedia Tools and Applications*, Vol. 83, issue 12, pp. 34943-34962, 2024.
- M Pandey, R Litoriya, **Prateek Pandey**, “Investigating and prioritising different issues in wearable apps: An spherical Fuzzy-DEMATEL approach” in *Multimedia Tools and Applications* Vol. 83, issue 4, pp. 10061-10090, 2024.

**B: Publication of Book/Book Chapter**

- Megha Motta and Partha Sarathy Banerjee, “Unstructured Data Handling in Healthcare Sector. Healthcare Services in the Metaverse” 1st Edition, Imprint: CRC Press, eBook ISBN: 9781003449256, DOI: <https://doi.org/10.1201/9781003449256>, May 2024.

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

- Dr. Rahul Pachauri, Dr. Dinesh Kumar Verma, Dr. Prateek Pandey, Prof. Mahesh Kumar attended one week online FDP on “Machine Learning & NLP using Python” organized by Infosys Springboard during June 24-28, 2024.
- Dr. Nileshkumar Patel, Dr. Ajay Kumar, Dr. Neelesh Jain, Dr. Dinesh Kumar Verma, Dr. Prateek Pandey, Prof. Mahesh Kumar, Mr. Navaljeet Singh Arora delivered a session in one-week Teachers Training Program on “Capacity Building in Deep Learning and Cyber Security”, organized by the Department of CSE, JUET, Guna during May 13-17, 2024.
- Prof. Vipin Tyagi delivered an invited talk on Content Based Image Retrieval in an International Conference on ICACDS held during April 22-23, 2024 at Kolkata.



**JUET students won second position with price money of 5 lakh in WittyHacks 4.0**

- Dr Sanjay Garg attended Assessors Orientation Programme (e-AOP), organised by NAAC, India on March 06, 2024.
- Dr. Dinesh Kumar Verma, Dr. Prateek Pandey attended one-week Faculty Development Program on “Generative AI” organized by Department of Electronics and Telecommunication, D T Patil college of engineering, Akurdi, Pune, during March 04-09, 2024.
- Dr. Neelesh Kumar Jain delivered an expert lecture on “Unraveling the intricacies of digital image forensics”, during the Five Days International FDP on “A Comprehensive Exploration of Cognitronics by Unraveling Technologies”, organized by Department of CSE & Department of Advance Computing, Poornima College of Engineering, Jaipur, during February 06-10, 2024.
- Dr. Nileshkumar Patel was invited by Govt. Model CM RISE H.S.S. Guna as an RST for Standard Writing Competition conducted by Standards Club of the School on January 30, 2024.

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

- A one-week Teachers Training Program on “Capacity Building in Deep Learning and Cyber Security” was organized by the Department during May 13-17, 2024. The program was coordinated by Dr. Nileshkumar Patel and Dr. K. B. Meena.

**E: Award/Honor/Recognition**

- Dr Sanjay Garg has been recognized as Peer Team Visit Expert by National Assessment and Accreditation Council (NAAC), India for his proficiency in academic quality, institutional assessment and accreditation processes.

**F: BOS Meeting**

- 14th BOS meeting of the Department was held on May 24, 2024 in online mode.

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**A: Publication in Journals**

- Manoj Kumar, **M. Patidar and Narendra Singh**, "Channel Capacity Enhancement with Nonlinear Distorted Signal Detection Using OFDM-NOMA Systems with Optimization System" Economic Computation and Economic Cybernetics Studies and Research, Vol.58, No. 2, pp. 98-115, June 2024.
- **Pankaj Dumka, Rishika Chauhan, Dhananjay R. Mishra**, Feroz Shaik, Pavithra Govindaraj, Abhinav Kumar, Vladimir Ivanovich Velkin, “Development and implementation of a Python functions for automated chemical reaction balancing”, Indonesian Journal of Electrical Engineering and Computer Science, Vol. 34, No. 3, pp. 1557-1565, June 2024,
- R.E. Franklin Jino, Arockia Mary Paulsamy, Gobinath Shanmugan, **Rajesh Kumar Vishwakarma**, “Enhancing Network Security: A Deep Learning-Based method to Detect and Diminish Attacks” Int. J. of Electronic Security and Digital Forensics. DOI: 10.1504/IJESDF.2025.10064402 14 May 2024.
- Manoj Kumar, **M. Patidar & Narendra Singh** “Filtered OFDM System Model for PAPR Reduction in The Growth of 5G Network” Journal of Electrical System, Vol. 20, pp. 1437-1452, April 2024.
- **Pankaj Dumka, Dhananjay R. Mishra, Rishika Chauhan**, “Exploring the Influence of Hanging Wicks on Solar still Productivity”, Inwascon Technology magazine-iTechMag, Vol. 6, pp 1-5, April 2024.
- P Kiran Kumar Reddy, Lakshmi K , **Deepak Sharma** , Dr. Neeraj Mathur , Amara S A L G Gopala Gupta and Akansh Garg, "Machine Learning And Ai In Marketing Connecting Computing Power To Human Insights" Migration Letters, Vol. 21, No. 9, pp. 262-267, April 2024.





**ISF-JUET, Guna organized E-Waste Collection programme in campus on March 14, 2024.**

- P Kiran Kumar Reddy, Yogita Bhise, Manish D Rai, Amara S A L G Gopala Gupta, and **Deepak Sharma** "Artificial Intelligence And Machine Learning As Business Tools: A Framework For Diagnosing Value Destruction Potential " Migration Letters, Vol. 21, No. 9 pp. 268-273, April 2024.
- **Pankaj Dumka, Rishika Chauhan**, Kritik Rana, Krishana Gajula, Ashutosh Mishra, **Amit Kumar Srivastava, Dhananjay R Mishra,** " Using Spreadsheets for Analysing the Influence of Bleed Pressure on Rankine Cycle Performance", Spreadsheets in Education, pp 1-20, March 2024.
- **Pankaj Dumka, Dhananjay R Mishra**, Bharat Singh, **Rishika Chauhan**, Md Irfanul Haque Siddiqui, L Natrayan, Mohd Asif Shah,"Enhancing solar still performance with Plexiglas and jute cloth additions: experimental study", Sustainable Environment Research, Vol. 34, February 2024.
- E. Gothai, S. Saravanan, Sara, C. Thirumalai Selvan, **Ravi Kumar**, "Optimized Machine Learning Model Discourse Analysis", Education and Information Technologies, Springer. DOI: <https://doi.org/10.1007/s10639-024-12515-3>. February 2024.
- Ansar Isak Sheikh, M. Sadish Sendil, P. Sridhar, M.I. Thariq Hussan, Shafiqul Abidin, **Ravi Kumar**, Reyazur Rashid Irshad, Elangovan Muniyandy, Solleti Phani Kumar, "Revolutionizing collaborative Auditing: A Dynamic Blockchain-Based Cloud Storage Framework for Data Updates and Assurance", Journal of Intelligent & Fuzzy Systems, pp. 6553-6564. DOI: <https://doi.org/10.3233/JIFS-237474>. January 2024.
- Ishan Shivansh Bangroo, María Fernanda Del Cid Hernández, **Ravi Kumar** "Decoding Toxicological Signatures through Quantum Computational Paradigm", Optical and Quantum Electronics, Springer, Vol.56, pp.1-32. DOI: <https://doi.org/10.1007/s11082-023-06079-8>, January 2024.
- Ishan Shivansh Bangroo, **Ravi Kumar** "AI Drive: Quantum-Computational DRL Framework for EHV Navigational Efficiency and Security Augmentation", Optical and Quantum Electronics, Springer, Vol.56, Article 570, pp. 1-23. DOI: <https://doi.org/10.1007/s11082-023-06162-0>, January 2024.
- Durgesh Nandan, **Jitendra Kanungo**, and Anurag Mahajan, "An error-efficient Gaussian filter for image processing by using expanded operand decomposition logarithm multiplication," Springer, Journal of ambient intelligence and humanized computing, Vol. 15, pp. 1045-1052, January 2024.

**B: Publication in Conference Proceedings**

- Harshal Patil, swati deviliyal, sudheendramouli hc, kumar pratyush, Swapnil Parikh and Rajesh kumar Vishwakarma, "Algorithms for detection of anomalies in data from clinical studies and medical registries, 2024 International Conference on Intelligent Systems for Cybersecurity (ISCS) 979-8-3503-7523-7/24 2024 IEEE | DOI: 10.1109/ISCS61804.2024.1058128, Paper Id: ISCS2024-268, pp.1-7, May 2024.
- Ishan Shivansh Bangroo, Ravi Kumar, "Zérosdetect: Phishing URL Detection with Quantum-Driven Zero-shot Learning", presented in IEEE sponsored 9th International conference on Signal Processing and Communication (ICSC 2023), organized by Department of Electronics and Communication Engineering, Jaypee Institute of Information Technology, Noida, DOI: 10.1109/ICSC60394.2023.10440725 pp. 498-503, February 2024.
- Ishan Shivansh Bangroo, Ravi Kumar "Quantum Prototype Clustering: Advancing AI-Enhanced Machine Learning" presented in IEEE sponsored 9th International conference on Signal Processing and Communication (ICSC 2023), organized by Department of Electronics and Communication Engineering, Jaypee Institute of Information Technology, Noida, DOI: 10.1109/ICSC60394.2023.10440984, pp.422-427, February 2024.



**MoU was signed between JUET and VLSI Society of India (VSI) on March 18, 2024.**

- Devesh Sharma, Ravi Kumar, Rajesh Kumar Vishwakarma, "A compact dual-band modified rectangular-shaped MIMO antenna for wireless applications", AIP Conference Proceedings, (Recent Trends in Materials and Manufacturing Technologies (RMMT-2022), Vol. 3000, Issue 1, 020009, DOI: <https://doi.org/10.1063/5.0189019> , pp. 1-9, January 2024.
- Ravi Kumar, Huma Khan, Akash Bagh, S Durga, Chakradhar Padamutham, Arpana Mishra, Helena Fidlerova "Applications of Blockchain Technology in Data management: its Security and Transparency" International Conference on Advances in Science, Technology and Management, Male, Maldives, ISBN: 9781032872025, pp.75-79. January 2024.

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

- Dr. Ranu Gupta attended workshop on "Capacity Building Program in Cybersecurity and its Investigation" organized by Research Foundation of India (RFI) during June 10-17, 2024.
- Dr. Ravi Kumar attended five-day short term course on "5G/6G Wireless Technologies (WT-2024)", organized by Department of Electronics and Communication Engineering, National Institute of Technology, Kurukshetra during April 17-21, 2024.
- Dr. Ranu Gupta participated in program on "Automotive Electricals" organized by SKYY Skill Academy on April 26, 2024.
- Dr. Ranu Gupta attended FDP on Exploring Dynamics of National Education Policy 2020" organized by Research Foundation of India (RFI) during March 18-26, 2024.
- Dr. Ranu Gupta attended workshop on "Project Writing for Grants and Research Paper writing" organized by Research Foundation of India (RFI) during March 11-12, 2024.
- Dr. Ravi Kumar attended five-day FDP on "Hand-on 5G Implementation on MATLAB (5GHM-2024)" organized by Annant Gyan Knowledge and Skills Private Limited during February 26 - March 01, 2024.
- Dr. Manish Patidar attended NEP 2020 Orientation & Sensitization Program under Malviya Mission Teacher Training Program (MM-TTP) of UGC organized by MMTC, DAVV, Indore (M.P.) during Feb 19 – March 01, 2024.
- Dr. Jitendra Raghuwanshi attended a webinar on "Sustainability and Sustainable Asset Management Practices in Electronics Industry" on February 14, 2024.
- Dr. Subodh Kumar Singhal, Dr. Jitendra Raghuwanshi Dr. Shefali Shirma, Dr. Ranu Gupta, Mrs. Rishika Chauhan have attended two weeks FDP on "NEP 2020 Orientation and Sensitization Programme" organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) during February 05-15, 2024.
- Dr. Rajesh Kumar Vishwakarma attended the International Webinar on "Exploring Civil Engineering Abroad-Opportunities and Challenges" on February 05, 2024.
- Dr. Rajesh Kumar Vishwakarma attended NAAC Orientation program on NAAC accreditation and documentation blueprint conducted by Accreditation, Ranking and Certification Network, of India on January 27, 2024
- Dr. Ranu Gupta attended FDP on "First Hand Experience on SPSS- Introductory Module" organized by Research Foundation of India (RFI) during January 15-22, 2024.

JAYPEE UNIVERSITY OF ENGINEERING & TECHNOLOGY, GUNA  
 Department of Electronics & Communication Engineering  
 Heartiest Congratulations for qualifying GATE-2024

Ms. Arpit Shukla Er. No. 201A001  
 Mr. Lucky Yadav Er. No. 201A009  
 Ms. Pragati Purohit Er. No. 201A012  
 Ms. Mahi Jain Er. No. 201A023  
 Mr. Vikash Leel Er. No. 21A011

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**D'equinox'24**



- Dr Ravi Kumar, Dr Rajesh Kumar Vishwakarma, Dr. Deepak Sharma, have attended two weeks FDP on “NEP 2020 Orientation and Sensitization Programme” organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) during January 15-27, 2024.
- Dr. Ranu Gupta has attended FDP on “Innovative Teaching and Learning Pedagogy” organized by Research Foundation of India (RFI) during January 09-13, 2024.

**D: Conference/Seminar/Webinar/Workshop/Event Organized**

- The department organized an online webinar titled "Sustainability and Sustainable Asset Management Practices in the Electronics Industry" on February 14, 2024. Dr. Suresh Vishwakarma was the resource person and Dr Rajesh Kumar Vishwakarma, Dr. Deepak Sharma and Dr. Jitendra Kanungo coordinated the programme.

**E: Books Published:**

- Dr. Prateek Pandey and Dr. Deepak Sharma, “Digitally Enhanced Adaptive Security: A Solution for Power Theft in Smart Cities”, in Energy 4.0: Trends, Challenges, and Applications, Springer Publisher India, May 2024.
- Renato R. Maaliw, Haewon Byeon, Ravi Kumar, Mukesh Soni, “Dynamic deployment and traffic scheduling of UPF in 5G networks” in “Networks Attack Detection on 5G Networks using Data Mining Techniques”, CRC Press, Taylor and Francis,. ISBN: 9781032530185, April 2024.
- Deepak Sharma, Narendra Singh and Dinesh Kumar Verma, “Hand book Embedded Systems and IOT” ISBN: 978-93-6132-911-1, Scientific International Publishing House, March 2024.

**F: Patent/Design/Copyright**

- Dr. Rajesh Kumar Vishwakarma et.al published a patent titled “5G/6G terrestrial wireless communication systems by harmonizing requirements with environment”. Application No. 2024210054A with patent office INDIA on February 23, 2024.
- Dr. Deepak. Sharma et.al published a patent titled" IoT Based Information Modeling for Cyber Physical Production System Based on Digital Twin and Automation ML" Patent Application No. 202421000551 with patent office India on February 02, 2024.
- Dr. Ravi kumar et.al published a patent titled, “A Smart System for Dynamic Threat Assessment and Behaviour-Based Anomaly Detection in IoT Device”, Application No. 202321079775 with patent office INDIA in January, 2024.

**G: Award/Honor/Recognition**

- Dr. Jitendra Kanungo was awarded IEEE Senior Membership in January 2024.

**H: Student’s Activities**

- The ISF (IETE Student Forum) organized following events:
  - E-Waste Collection: 14 March 2024

**MECHANICAL ENGINEERING**

**A: Publication in Journals**

- **Pankaj Gupta and Bhagat Singh**, “Tool Chatter Diagnosis using EMD and LMD Techniques: A Comparative Study” EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 11, No. 02, pp. 1216-1226, June 2024.



**Industrial visit by  
Mechanical Engineering  
Society (MES) of JUET**



**Meet for Industry -  
Academia collaboration**

- Atul Dhakar, **Bhagat Singh and Pankaj Gupta**, “Comparative performance analysis of different types of k-nearest neighbor (k-NN) classifiers for fault diagnosis of air compressor setup” Engineering Research Express, Vol. 6, No. 2, 025563, June 2024.
- Nitesh Pandey, Aditya Shrivastava, Pramiti Tewari, **Amit Kumar Srivastava and Pankaj Gupta**, “Innovative and unique generative design solution for the leg part of a robot using Autodesk Fusion 360 CAD software”, Journal of Engineering Design and Analysis, Vol. 06, No. 02, pp. 26-35, May 2024.
- Falguni Gorana, and **Yashwant Kumar Modi**, “Influence of build orientation on porosity, strength and dimensional accuracy of laser sintered polyamide porous bone scaffolds”, Archive of Mechanical Engineering, Vol. 71, No. 2, pp. 227-249, April 2024.
- Sunil Kumar Srivastava, **Kedari Lal Dhaker**, “Data-driven approach for Cu recovery from hazardous e-waste”, Process Safety and Environmental Protection, Vol. 183, Pp. 665-675, March 2024.
- Atul Dhakar, **Bhagat Singh and Pankaj Gupta**, “Diagnosing faults in rolling bearings of an air compressor set up using local mean decomposition and support vector machine algorithm” Journal of Vibration Engineering & Technologies, Vol. 12, pp. 6635–6648, February 2024.
- **Pankaj Gupta**, Amit Kumar Srivastava and Nitesh Pandey, “Enhancing Hand Efficiency of Smart Glass Cleaning Robot through Generative Design Module”, International Journal of Mechanical and Industrial Engineering, Vol. 18, No. 02, pp. 29-36, February 2024.
- Harinarayan Singh, Sanat Agrawal and **Yashwant Kumar Modi**, “Additively manufactured patient specific implants: A review”, Archive of Mechanical Engineering, Vol. 71, No. 1, pp. 109-138, January 2024.
- Falguni Gorana, and **Yashwant Kumar Modi**, “Process parameter optimization for fabrication of acrylonitrile butadiene styrene parts”, Materials Today: Proceedings Journal, DOI: <https://doi.org/10.1016/j.matpr.2023.08.204>, 2024.
- Nitesh Pandey, Manish Kumar, **Pankaj Gupta** and Amit Kumar Srivastava, “Modelling and Dimension Analysis of a Multipurpose Convertible Laptop Table Using Autodesk Fusion 360”, International Journal of Industrial and Manufacturing Engineering, Vol. 18, No. 03, pp. 93-102, 2024.
- Siddhant Pratap Singh, **Amit Sharma**, Vivekanand Singh and Sanjay Mishra, “Effects of fiber type, content, orientation, and surface treatments on the mechanical properties of PAFRP composite”, Engineering Research Express, Vol. 6, No. 01, 2024.
- **Tasnim Arif** and **Amit Sharma**, “Experimental Investigation in Sustainable Electric discharge drilling of Inconel alloy using grey-based fuzzy logic approach”, Proceedings of the Institution of Mechanical Engineers Part E: Journal of Process Mechanical Engineering, DOI:10.1177/09544089231221541, January 2024.

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

- Md Tasnim Arif has participated a Two-Day certified programme, focusing on "Automotive Electrical" organized by SkyySkill Academy from April 26-27, 2024.
- Dr. K L Dhaker has attended science education interactive series 1.1 organized by Global Innovation Foundation for Transformative Society (GIFTS NGO) on March 17, 2024.





**Inter-year Basketball tournament at JUET, Guna**

- Dr. Yashwant Kumar Modi delivered an invited expert lecture in International Conference on Sustainable and innovative materials for Modern Life organized by Department of Chemistry, Siddharth University, Kapilvastu, Siddharth Nagar, UP on March 13, 2024.
- Dr. Yashwant Kumar Modi, Dr. Amit Sharma and Dr. Kedari Lal Dhaker attended one-week FDP on “Green Manufacturing” organized by Faculty Development Centre (FDC)-SMVDU under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching of MOE, GOI, Shri Mata Vaishno Devi University, Katra, Jammu in Collaboration with School of Mechanical Engineering during March 04-08, 2024.
- Md Tasnim Arif completed “NEP-2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC, Organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) from January 15-25, 2024.
- Dr. Amit Sharma and Dr. Kedari Lal Dhaker completed “NEP-2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC, Organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) from January 01-11, 2024.
- Dr. Yashwant Kumar Modi completed Innovation Ambassador: Foundation and Advanced level training conducted in online mode jointly by MoE’s Innovation Cell and AICTE in January 2024.

**C: BOS Meeting**

- 14th BOS of the Department was held on May 13, 2024.

**D: Design/Patent/Copyright**

- Dr. Pankaj Gupta, Dr. Bhagat Singh, Nitesh Pandey, Dr. Yogesh Shrivastava, Saurabh Agarwal registered a design titled, “Electric Skateboard” Design No. 405977-001 with Patent Office, India on May 29, 2024.
- Dr. Amit Kumar Srivastava, Dr. Pankaj Gupta, Dr. Rohit Mishra, Dr. Bhagat Singh, Nitesh Pandey, registered a design titled, “Robot Vacuum Cleaner”, Design No. 406567-001 with Patent Office, India on April 18 2024.
- Dr. Amit Kumar Srivastava, Dr. Pankaj Gupta, Dr. Bhagat Singh, Dr. Rohit Mishra, Nitesh Pandey, Manish Kumar registered a design titled, “Fertilizer Sprayer Stick”, Design No. 406582-001 with Patent Office, India on April 12 2024.
- Dr. Pankaj Gupta, Dr. Bhagat Singh, Nitesh Pandey, Dr. Amit Kumar Srivastava, Dr. Yogesh Shrivastava registered a design titled, “Coffee Bottle”, Design No. 365228-001 with Patent Office, India on February 09, 2024.

**E: Student Activities**

- MES students’ body has conducted an Industrial visit of the first year mechanical engineering students at Shri Ram Industries, Pagara, Raghogarh, MP on March 9, 2024.

**CHEMISTRY**

**A: Conference/Seminar/Webinar/Workshop/FDP Participated**

- Dr. Rashmi Tyagi delivered three lectures through online mode in one-week “Teachers’ Training Program in Chemistry” for teachers of Jaypee schools, held at IIIT Noida during May 20-25, 2024.
- Dr. Rashmi Tyagi attended online “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) during January 15-27, 2024.



**Poster presentation on “Women Empowerment” by Gender Sensitization Cell on February 19, 2024.**



**Two-Day National Seminar on 'G-20, Diversity and Sustainable Development' during January 27-28, 2024 sponsored by ICSSR.**



**Shark Tank event conducted on February 24, 2024 by Entrepreneurial and Development Cell, JUET, Guna.**



**HR Conclave 2024 Hosted by JUET at The Park Hotel, Indore.**

## HUMANITIES AND SOCIAL SCIENCES

### A: Publication in Journals

- Pooja Patidar, **Sandeep Arya**, **Abhishek Shukla**, "Social Media and Mental Health: The role of emotional investment and self-esteem", African Journal of Biological Sciences, Vol. 6, No. 5, pp. 3881-3910, 2024.
- **Shekhar Singh**, **Tamanna Agarwal**, Tanmay Pant, "Examining the Temporal Effects of Employer Branding on Employee Engagement and Employee Retention: A Longitudinal Study in the Indian IT Sector", Journal of Human Resource Management, Vol. 15, No. 3, pp. 104-118, 2024.

### B: Publication of Book/Book Chapter

- Dr. Kamini Bhasin published a chapter titled "Women Empowerment: A study on status of rural women of Hadoti Region" in book "G20, Diversity and Sustainable development" ISBN 9358425601.
- Pooja Patidar and Dr. Abhishek Shukla published a chapter titled "Implications of UN SDG3: Critical Analysis in Indian perspective" in book "G20, Diversity and Sustainable development" ISBN 9358425601.
- Ankita Jain and Dr. Abhishek Shukla published a chapter titled "Compulsive Buying Behaviour: An Investigation of its antecedents" in Book "G20, Diversity and Sustainable development" ISBN 9358425601.

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

- Dr. Vikram Singh Chouhan completed a one-day online workshop on "Intellectual Property and SDGs" conducted by Turnip Innovations Pvt. Ltd. held on April 26, 2024.
- Dr. Kamini Bhasin delivered a session as Guest of Honour in ICSSR sponsored seminar on 'Atmanirbhar Bharat: a transformative role for the new education policy in 2020' organized at Rabindra Nath Tagore university, Bhopal during on February 10, 2024.
- Dr. Tamanna Agarwal completed two-week NEP 2020 Orientation and Sensitization Programme organized by Malaviya Mission Teacher Training Centre, DAVV, Indore from February 05-15, 2024.
- Dr. Tamanna Agarwal completed Scopus Academy modules on February 03, 2024.
- Dr. Sandeep Srivastava, Dr. Sandeep Arya and Dr. Shekhar Singh attended five-day FDP on "Case study Development and Teaching through Cases", organized by IMS, Ghaziabad January 29 - February 02, 2024.
- Dr. Shekhar Singh participated in the national seminar (DSSSM-2024) "G20, Diversity and Sustainable Development", as panel member of article presentation review committee organized by HSS department, JUET, Guna during January 27-28, 2024.
- Dr. Tamanna Agarwal participated in the national seminar (DSSSM-2024) "G20, Diversity and Sustainable Development", as member of paper review committee organized by HSS dept., JUET, Guna during January 27-28, 2024.
- Dr. Kamini Bhasin participated as editorial committee member in ICSSR sponsored seminar DSSSM-2024 on 'G-20, diversity and Sustainable development organized at JUET, Guna during January 27-28, 2024.
- Dr. Vikram Singh Chouhan completed a one-day online conference on "Intellectual Property and Start-Ups" conducted by Turnip Innovations Pvt. Ltd. held on January 20, 2024.





**Motivational talk on 'MIND'S GPS: How to Navigate Your Way to an Ambitious Career with Mindfulness' by Mr. Kumud Bhargava was organized on March 05, 2024.**



**Interaction of Brig. (Retd.) Sanjay Dawar, Head, Centralised T&P Cell**



- Dr. Vikram Singh Chouhan completed a two-week programme on “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) held during January 15-27, 2024.
- Dr. Kamini Bhasin has a two-week programme on “NEP 2020 Orientation & Sensitization Programme” under MM-TTP of UGC organized by Dr. Harisingh Gour University, Sagar, M.P. from January 15-25, 2024.
- Mr. Neeraj Jain attended two-week NEP Orientation and Sensitization Program organized by Malviya Mission Teachers Training Centre, DAVV Indore during January 01-11, 2024.

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

- Dr. Abhishek Shukla and Dr. Sandeep Srivastava organised two-day national seminar themed “G20, Diversity and Sustainable Development (DSSSM-2024)”, sponsored by ICSSR, New Delhi from January 27-28, 2024.

**E: Ph.D. Awarded**

- Ph.D. degree has been awarded to Ms. Tamanna Agarwal by the University for her thesis titled, “Retention of IT employees through employer branding in the post-COVID era: A longitudinal study in Indian context”, under the supervision of Dr. Sandeep Arya and Dr. Kamini Bhasin in February 2024.

**MATHEMATICS**

**A: Publication in Journals**

- Pankaj Prasad Dwivedi and Dilip Kumar Sharma, “A novel approach for constructing privacy-aware architecture utilizing Shannon's entropy”, *Concurrency and Computation: Practice and Experience*, Vol. 36, No. 11, pp. 1-14, May 2024.

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

- Dr Bali Ram Gupta participated in a Five- Day FDP on “Recent Developments in Statistics and its Applications in Data Science” organized by the Department of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai during March 27- 31, 2024.

**C: Conference/Workshop/Seminar organized**

- Department celebrated National Mathematics Day from January 04-10, 2024 on the occasion of National Mathematics Day-2023. The event was financially supported by M. P. Council of Science and Technology, Bhopal, MP. During the celebration Mathematics Quiz, poster making competition and origami competition were organized which were coordinated by Dr. D. K. Sharma, Dr. Bali Ram Gupta and Dr. Divya Jain respectively.

**PHYSICS**

**A: Publication in Journals**

- H. Khanduri, Mukesh C. Dimri, Prashant Kumar, J.S. Tawale, R.P. Pant, “Low temperature garnet phase formation in Mn-substituted Y3Fe5-xMnxO12 nanoparticles via citrate combustion synthesis”, *Ceramics International*, DOI: <https://doi.org/10.1016/j.ceramint.2024.06.067>, June 2024.

**B: Conference/Workshop/Seminar organized**

- The department organized webinars titled, “Discovery of Raman Effect: An Inspiring Story of the First Nobel Prize in Indian Science”, by Prof. Anshuman Dalvi, BITS Pilani and “Computational Gastronomy: Making Food Computable”, by Prof. Ganesh Bagler, IIIT, Delhi during the National Science Day celebration in the first week of March 2024. The event was financially supported by MPCST, Bhopal.

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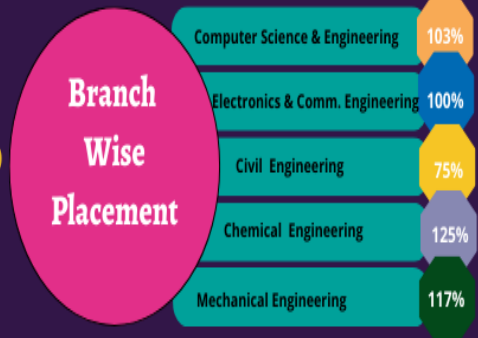
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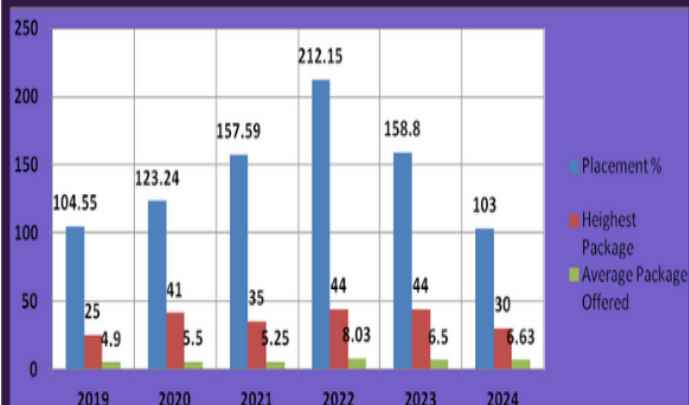
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4 - 5.99	128



Total Visited Companies -150 +  
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**Adios: Farewell Function**



**Voting Awareness Campaign by JUET students**



**Blood donation camp at JUET, Guna on April 20, 2024.**

**JUET YOUTH CLUB (JYC)**

JYC organized following events with huge participation of the students during the reporting period of the News Letter:

- Adios: Farewell Function : May 04, 2024
- D'Equinox'24: Annual Fest : April 12-14, 2024
- Jaypee Basketball Inter Year : February 19-March 06, 2024
- Cine Sanskriti : February 17, 2024
- Cultural Evening for DSSSM : January 27, 2024
- Inter Year Badminton Tournament : January 17-24, 2024
- Inter Year Cricket Tournament : January 15- February 04, 2024
- Inter Year Football Tournament : January 15- February 01, 2024

**LEARNING RESOURCE CENTRE (LRC)**

- Subscriptions of IEEE ASPP, IEEE CSDL, Springer Nature (1700+ journals), and EBSCO E Books Engineering Core Collection have been renewed.
- 30 volumes of books (17 new and 13 gifted) have been added to LRC.
- 'DrillBit-Extreme Plagiarism Detection Software' as part of the Shodh Shuddhi initiative has been implemented.

**PROMOTIONS AND APPOINTMENTS**

- Mr. Niraj Kumar Gaur joined the University as DGM (HR) on April 01, 2024.
- Mr. P. Sudhakaran joined the University as PA-1 to Vice Chancellor on March 01, 2024.
- Mr. Pradeep Kumar joined the Department of Physics as Assistant Professor (G-1) on February 12, 2024.
- Dr. Sanjay Mishra joined the University as Registrar on January 15, 2024.

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