



\* VOL. 9 NO.2 OF JUET CHRONICLE COVERS INFORMATION FROM JANUARY TO JUNE 2019.

### Contents

- Visit of Dignitaries
- Interaction by Honourable Vice Chancellor
- TEDxJUET
- Important Academic Events
- Alumni Achievements
- Achievements - (Faculty/Department -wise)
- Jaypee Wind Engineering Application Centre
- Training & Placement Activities
- JUET Youth Club (JYC)
- Learning Resource Centre (LRC)
- Promotions and Appointments

### Editorial Board

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



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### VISIT OF DIGNITARIES

- Prof. K.P. Singh, former director of IIT-BHU visited the campus as chief guest for the inauguration ceremony of annual technical festival of JUET on April 20-21, 2019. He also interacted with the faculty members.

### INTERACTION BY HONOURABLE VICE CHANCELLOR

- Honorable Vice Chancellor Prof. J. S. P. Rai interacted with all the staff members on May 30, 2019 and faculty members of university on May 31, 2019.

### TEDxJUET

JUET organized TEDx event on February 23, 2019 for the second time. Following eminent speakers delivered talk in this event:

- Mr. Ranjan Singh, Founder & CEO, ConceptOwl delivered a talk on "TEDX-Quality Science Learning to Tier 2/3 Cities without Compromising Quality" in TEDx JUET.
- Mr. Devesh Tripathi, a Natural light photographer, delivered a talk on "TEDX-Peaceful essence of raw natural landscapes" in TEDx JUET.
- Mrs. Ragini Makkar, a renowned Kathak Dancer, delivered a talk on "Preserving of Indian culture in fine arts while adopting the western culture" in TEDx JUET on February 23, 2019.
- Prof. PK Singh, HOD, Chemical Engg Deptt, JUET delivered a talk on "Organic Farming" in TEDx JUET.
- Dr. Dev Jha, AVP, Instagram delivered a talk on "Role of Quantum Computing in AI" in TEDx JUET on February 23, 2019.
- Shri Saurabh Sharma, Associate Director, David Adamson Vaastupoorty India Pvt. Ltd. delivered expert lecture on "Industrial/ Warehouse Facility Development Challenges".

### IMPORTANT ACADEMIC EVENTS

- Mr. Priyansh Srivastava, alumnus of JUET, 2011-15 batch (EC), delivered a talk on "Study abroad" on April 30, 2019.
- Mr. Nawal Kishore Singh, Sr. Manager, Sapient delivered a talk on "Campus recruitment preparation" on April 29, 2019.
- Mr. Ravi Shanker Shukla, Embedded Engineer, RD city Gurugram delivered a talk on "Application of Embedded System in industry" on April 20, 2019.
- Shri. Ashok Singh, Managing Director, Nitya Nyra Civil Solutions Pvt. Ltd. delivered guest lecture on "Consulting Services in Highways", on April 20, 2019.
- Mr. Arpit Jain, Technology Specialist, Cognizant, addressed the students on career planning and development on March 02, 2019.
- Mr. Kashmiri Lal, National Organizing Secretary, Swadeshi Jagran Manch delivered a talk on "Entrepreneurship skills and research focus in technical universities" on February 23, 2019.
- Shri. S.K.Tripathi, CEO, JMC Projects Ltd., delivered an expert lecture on "Opportunities and Challenges in Civil Engineering", on February 23, 2019.
- Mr. Rishabh Atrey shared "Success Mantra" with the students on February 8, 2019.
- Mr. Mukul Gupta and Mr.Anshul Gupta Co-Founders, NEDAON Pvt. Ltd. conducted Workshop on "Python & Django" on February 02, 2019.
- Prof. Ram Bilas Pachauri delivered a lecture on "Short time Fourier Transform and its Applications", on January 28, 2019.
- Shri. Rajesh Kataria, Ex-Chief General Manager, Indian Oil Corporation Ltd. delivered an expert lecture on "Project Management Methodology and a Case Study of a Mega Multi-Disciplinary Project" on January 19, 2019.



An activity conducted by CHE department during IONIZE2K19.



Chief Guest Prof. K.P. Singh observing a project made by CE students.

- Mr. JP Tiwari, Consultant, CISCO addressed the students on “Recent trends in network security” on January 05, 2019.

**ALUMNI ACHIEVEMENTS**

- Mr. Dhruv Tripathi, (141544) alumnus of B.Tech.-CE of 2014-18 batch has been selected as Assistant Commandant in Indian Navy.
- Mr. Anukalp Goyal (Er. No.131853) alumnus of B.Tech.-ME of 2013-17 batch, has been offered MS programme in "Mechanical and Industrial Engineering" by University of Toronto, Canada.
- Mr. Santosh Singh Rathore ( Er. No. 121775), alumnus of B.Tech.-ME of 2012-16 batch, has been offered MS programme in “Mechanical Engineering” by University of Illinois, Chicago.
- Mr. Aman Dixit, alumnus of B.Tech.-ECE of 2012-16 batch, has joined as Network/Wifi Engineer for Sprint at Orchestra Technology, Dallas, Texas.
- Mr. Sachin Bhargav (121573) alumnus of B.Tech.-CE of 2012-16 batch, has been selected in MPPSC as Nayab Tehsildar.
- Mr. Anand Sharma (122003), alumnus of M.Tech-ECE of 2012-14 batch has completed his PhD from ISM Dhanbad and started new job at Motilal Nehru National Institute of Technology as an Assistant Professor June 2019.
- Mr. Anvesha Goyal, alumnus of B.Tech-ECE of 2011-15 batch has been offered admission to Masters in the department of Electrical Engineering with specialisation in Signals and System by University of Texas, Dallas, USA.
- Dr. D S Jha, B. Tech. CSE 2008-12, joined as Chief Data Scientist at England & Wales Cricket Board.
- Mr. Utkarsh Anand, B. Tech. CSE 2014-18, joined as Associate Engineer at Datametica Solutions Private Limited.
- Mr. Prateek Sharma, B. Tech. CSE 2015-19, joined as Senior Process Associate at Genpact.
- Mr. Priyansh Agarwal, B. Tech. CSE 2015-19, joined as Senior Associate at Genpact.
- Mr. Pratham Kapoor, B. Tech. CSE 2008-12, joined as SAP Consultant at Deloitte India.
- Mr. Nikhil Jain, BTech CSE 2012-16, started a new position as Senior Software Engineer at Walmart.

**ACHIEVEMENTS (FACULTY WISE)**

**FACULTY OF ENGINEERING**

**CHEMICAL ENGINEERING**

**A: Publications in Journals**

- Sushmita Sharma, G. K. Agarwal and N.N. Dutta, “Reactive extraction of Zn and Cu with Bis (2-ethylhexyl) phosphate: Optimization using Taguchi orthogonal design”, Russian Journal of Inorganic chemistry, Vol. 64, No. 5, pp. 651-660, May 2019.
- K. N. Gupta and Rahul Kumar, “Kinetic modeling and optimization of fraction of bed utilized for the gaseous phase removal of toluene in fixed bed adsorption column: Response surface methodology”, Separation Science and Technology, DOI:https://doi.org/10.1080/01496395.2019.1583252, March 2019.
- Sushmita Sharma, G. K. Agarwal and N.N. Dutta, “LSER analysis of reactive extraction of Zn and Cu with bis (2-ethylhexyl) phosphate (HDEHP) in six different diluents”, Separation Science and Technology, Vol. 54, pp. 1167-1173, February 2019.

**B: Ph.D. Awarded**

- Ph.D. degree has been awarded to Ms. Sushmita Sharma by the University for her thesis entitled “Studies on the recovery of metal ions from spent catalyst” in June 2019.

**C: Student’s Activities**

- The student’s forum of Chemical Engineering organized Tech-fest “IONIZE2K19” during April 20-21, 2019. Following events were conducted during the fest:
  - Chem-E-Car : April 21, 2019
  - Purify-It : April 21, 2019
  - Carbide Cannon : April 20, 2019
  - Crack the Game : April 20, 2019

**D: Faculty Seminar**

- Dr. K. N. Gupta delivered a talk on “Kinetics and length of unused bed in fixed bed absorption column”, on April 22, 2019.
- Dr. Rahul Shrivastava delivered a talk on “A new approach for fault detection and diagnosis in chemical processes”, on February 25, 2019.

**CIVIL ENGINEERING**

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

- Mr. Y.I. Murthy presented a paper titled, “Corrosion Mitigation of Reinforcement in Concrete Using Magnesium Anodes”, RSRI CRSE 2019: 2nd RSRI Conference on Recent trends in Science and Engineering at Human Resource Development Centre, Devi Ahilya Vishwa Vidyalaya, Indore, Madhya Pradesh during February 27-28, 2019.

**B: Student’s activities**

- The Civil Engineering Forum (CEF) organized the following events during the period:
  - Cube Casting : April 21, 2019
  - Think if you can : April 21, 2019
  - Clay Modeling : April 21, 2019
  - Bob the Builder : April 20, 2019
  - Whats the Plan : April 20, 2019
  - Truss It : April 20, 2019





**CSE organized Tachyon-2019, technical fest held on April 20-21, 2019.**



**An event by CSE department at Tachyon - 2019 in LT-5.**

### C: Student's Achievements

- Geetansh Saxena (151619), Kanhadeep Nayak (151625) Prateek Deoli (151637) and Puneet Yadav (151638) cleared NICMAR entrance test to pursue Post Graduate Program in Advanced Construction Management.
- Ayush Choudhary (151614) and Tushar Bansal (151668) cleared GATE 2019.
- Sameer Prakash (161D048) is pursuing a paid internship (1000 USD per month) at South Korea.

### D: Faculty Seminar

- Mr. R.K.Goliya delivered a seminar on "Disaster Mitigation in Indian Perspective", on February 28, 2019.
- Mr. Abhishek Verma delivered a seminar on "Use of Recycled Aggregate in Concrete", on April 15, 2019.
- Mr. S.N.Yadav delivered a seminar on "Strength behaviour of rock mass under confinement", May 17, 2019.

### COMPUTER SCIENCE AND ENGINEERING

#### A: Publication In Journals

- Partha Sarathy Banerjee, Baishakhi Chakraborty, Deepak Tripathi, Sourav S. Kumar, and Hardik Gupta, "A Information Retrieval Based on Question and Answering and NER for Unstructured Information Without Using SQL" Wireless Personal Communications, Springer US, DOI:10.1007/s11277-019-06501-z, May 2019.
- Shishir Kumar, Prabhat Mahanti, Su-Jing Wang, "Intelligent Computational Techniques for Multimodal data" Journal of Multimedia Tools and Applications, DOI:10.1007/s11042-019-07936-z, pp-1- 6, April 2019.
- Mamta Pandey, Ratnesh Litoriya and Prateek Pandey "Novel Approach for Mobile Based App Development Incorporating MAAF", Wireless Personal Communications, DOI:10.1007/s11277-019-06351-9, April 2019.
- Mamta Pandey, Ratnesh Litoriya and Prateek Pandey "Identifying Causal Relationships in Mobile App Issues: An Interval Type-2 Fuzzy DEMATEL Approach", Wireless Personal Communications, , DOI:10.1007/s11277-019-06424-9, April 2019.
- Narendra Sharma, Ratnesh Litoriya and Deepika Sharma "An Analytical Study on the Importance of Data Mining for Designing a Decision Support System", Journal Of Harmonized Research in Applied Sciences, Vol. 7, No. 2, pp 44-48, April 2019.
- Prateek Pandey, Ratnesh Litoriya "An Activity Vigilance System for Elderly based on Fuzzy Probability Transformations", Journal of Intelligent and Fuzzy Systems, IOS Press, vol. 36, No. 3, pp 2481-2494, March 2019.
- Neha Jain, Shishir Kumar, Amit Kumar, "Effective Approach for Facial Expression Recognition using Hybrid Square-based Diagonal Pattern Geometric Model", Journal of Multimedia Tools and Applications, DOI: 10.1007/s11042-019-7325-x, pp 1-17, February 2019.
- Varun Kumar Sharma and Mahesh Kumar (2019), "Adaptive load distribution approach based on congestion control scheme in ad-hoc networks" International Journal of Electronics, Vol. 106, No. 1, pp 48-68, January 2019.
- Dinesh Verma, Shishir Kumar, Prabhat Mahanti, "Prediction of Software Defect Density using Hybrid Metrics Suite", Journal of Next Generation Information Technology, Vol. 10, No. 1, pp 190-197, January 2019.

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

- Dr. Ratnesh Litoriya participated in the One day Workshop on Python Under 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)', MHRD, Govt. of India, conducted by IIT Bombay at remote centre, SAGE University Indore on June 22, 2019.
- Dr. Mahesh Kumar attended Cisco Cyber Operations Boot Camp 2019, at Vasavi College of Engineering, Hyderabad, Telangana during June 07-14, 2019.
- Dr. Mahesh Kumar, Dr. Rahul Pachauri, Dr. Prateek Pandey, Dr. Ratnesh Litoriya, Dr. Dinesh Kumar Verma and Mr. Utkarsh Sharma attended Faculty Development Program on Deep Learning and Its Application, organized by PDP Jabalpur, during May 27-31, 2019.
- Dr Mahesh Kumar conducted CCNA Routing & Switching Module1: Training at JUET, Guna during April 16 - May 20, 2019.
- Prof. Shishir Kumar delivered an invited lecture on Prospects of using Intelligent Computational Techniques in Software Engineering Research at Amity University Lucknow on May 13, 2019.
- Dr. Mahesh Kumar delivered technical as well as hands-on sessions in Python Training for School Teachers-2019, at JUET, Guna, during April 05-07, 2019.
- Mr. Partha Sarathy Banerjee delivered a talk at "Seminar on Artificial Intelligence" at Amity University Jharkhand, Ranchi, India, February 28, 2019.
- Prof. Shishir Kumar participated in InfyTQ summit organized at Infosys Global Training Centre at Mysore on February 17, 2019.
- Dr. Mahesh Kumar and Dr. Nileshkumar R. Patel attended "LEX based Foundation Program" organized online by Infosys (JUET) during January 18- 25, 2019.

#### C: Conference/Seminars/Workshops organized

- FDP on "Deep Learning and Applications" jointly organized by Electronics and ICT Academies was organized and conducted at JUET Guna during May 27-31, 2019. Total 25 participants participated in the FDP.
- Teachers Training Program on "Programming in Python" for School Teachers was organized at JUET, Guna during April 05-07, 2019. Total 42 teachers from different schools participated in the program.



**Students demonstrating a working model to the chief guest of the technical fest.**

**D: Publication of Book Chapter**

- Kunj Bihari Meena, Vipin Tyagi , “Image Forgery Detection: Survey and Future Directions” , Data, Engineering and Applications, Springer, Singapore, pp 163-194, [https://doi.org/10.1007/978-981-13-6351-1\\_14](https://doi.org/10.1007/978-981-13-6351-1_14), April 2019.
- Mamta Pandey, Ratnesh Litoriya and Prateek Pandey, “Perception- Based Classification of Mobile Apps: A Critical Review. In: Luhach A., Hawari K., Mihai I., Hsiung PA., Mishra R. (eds) Smart Computational Strategies: Theoretical and Practical Aspects. Springer, Singapore, pp 121-133, [https://doi.org/10.1007/978-981-13-6295-8\\_11](https://doi.org/10.1007/978-981-13-6295-8_11), March 2019.
- Prateek Pandey and Ratnesh Litoriya “Legal/Regulatory Issues for MMBD in IoT”. In: Multimedia Big Data Computing for IoT Applications. Springer, Singapore, Chapter DOI: 10.1007/978-981-13-8759-3\_14, May 2019.

**E: Patent Filed**

- Dr. Ratnesh Litoriya and Dr. Prateek Pandey filed the following Indian patent on June 20, 2019 at Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. Patent Details :

**System for Intelligent and Adaptive Control for Micro Hydro Plant (Patent application No. 201911024489)**

This system offers a cost effective and efficient approach for the control of integrated renewable energy systems using Artificial Intelligence.

**F: Research Projects**

- A Research project has been sanctioned to Prof. Shishir Kumar and Dr. Nileshkumar R. Patel, entitled “Effective Approach for Prolonged Lifetime of Wireless Sensor Network through Efficient Energy Conservation” by MPCST for duration of two years on February 04, 2019.

**G: Student’s activities**

Following events have been organised during the period:

- |  |                          |
|--|--------------------------|
| ▪ TACHYON 2019                           | : April 20 – 21, 2019    |
| ▪ Data Structure Workshop                | : March 13 – 14, 2019    |
| ▪ Graphic Designing Workshop - II        | : March 12, 2019         |
| ▪ Graphic Designing Workshop             | : February 20 – 21, 2019 |
| ▪ Oblivion- II                           | : February 19, 2019      |
| ▪ Oblivion - I                           | : January 26 – 28, 2019  |
| ▪ Kodeathon                              | : January 23, 2019       |
| ▪ Treasure Hunt                          | : January 19, 2019       |
| ▪ Open Source Development Tools Workshop | : January 15 – 17, 2019  |

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**A: Publication In Journals**

- Dharmendra Jain, Jitendra Kanungo and Santosh Kumar Tripathi, “Performance Enhancement Approach for Supercapacitor by using Mango Kernels Derived Activated Carbon Electrode with p-hydroxyaniline based Redox Additive Electrolyte”, Materials Chemistry and Physics, Vol. 229, pp. 66-77, May 2019.
- Dharmendra Jain, Jitendra Kanungo, and Santosh K.umar Tripathi, “Synergistic effect of redox couple VO<sub>2</sub><sup>+</sup>/VO<sub>2</sub><sup>+</sup> with H<sub>3</sub>PO<sub>4</sub> to enhance the supercapacitor performance,” Journal of Materials Science: Materials in Electronics, Vol. 30, No. 13, pp. 12244-12259, May 2019.
- Amit. Shiyhare, Ravi Kumar and Manish Kumar Patidar, “Review of MIMO-OFDM System Using Simulink Model”, International Journal of Computer Sciences and Engineering, Vol. 7, No. 3, pp. 72-75, March 2019.
- Ranu Gupta, Rahul Pachauri, Ashutosh K. Singh, “Image Encryption Method Using New Concept of Compound Blood Transfusion Rule with Multiple Chaotic Maps,” Current Medical Imaging”, Vol. 15, No. 0 pp. 1-10, January 2019.
- Manish Kumar Patidar and Rahul Pachauri, “PAPR reduction in OFDM using combinational approaches”, JUET Research Journal of Science & Technology, vol. 5, no. 1, pp. 27-33, Jan 2019.

**B: Publication in Conference Proceeding**

- D. Sharma and A. Pandey, "An Efficient Design and Analysis of Folded Slot Log-Periodic Antenna for 5-G Standard" in Proceedings of International Conference on Recent innovations in Engineering, Science and Management (ICRIESM-2019), Noida, April 05-06, 2019, pp. 125-128.
- N. Singh and D. Sharma “Recent Developments in QMF, TMUX with their Applications in OFDM”, in Proceedings of International Conference on Recent innovations in Engineering, Science and Management (ICRIESM-2019), Noida, April 05-06, 2019, pp. 129-139.
- M. Kumar, A. Pandey, M. K. Patidar and N. Singh “A Survey Paper on ISI and PAPR Reduction Techniques in OFDM”, in Proceedings of International Conference on Recent innovations in Engineering, Science and Management (ICRIESM-2019), Noida, , April 05-06, 2019, pp. 116-123.
- D. Jain, J. Kanungo, and S. K. Tripathi, “Characterization of Supercapacitor for the Development of Energy Storage Units”, in Proceedings of International Conference on Signal Processing and Communication (ICSC- 2019), Noida, March 07-09, 2019, pp. 264-270.
- M. K. Singh, N. Singh, A.K. Singh, “Speaker’s Voice Characteristics and Similarity Measurement Using Euclidean Distances” in Proceedings of IEEE International Conference on Signal Processing and Communication (ICSC- 2019), , Noida, March 07-09, 2019, pp.317-322.



**A model shown a track for Robo Race by ECE student.**

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

- Manish Kumar Patidar, Deepak Sharma, Ravi Kumar, Amit Shivhare and Rishika Chauhan attended the One week faculty development program on “Deep Learning & Application” jointly organized by Department of Electronics and Information Technology, IITDM, Jabalpur and Department of Computer Science, JUET Guna, May 27-31, 2019.
- Rajesh K. Vishwakarma, K.K Verma presented paper entitled “Inverted S-Shaped Microstrip Patch Antenna for GPS Application” in National seminar on recent advances in material science and electronics, organized by Physics & Electronics Department, Dr RML Avadh University, Faizabad, on February 28, 2019.
- Rajesh K. Vishwakarma, K.K Verma presented paper entitled, “H-Shaped Microstrip Antenna for RFID Applications” National seminar on recent advances in material science and electronics, Organized by Physics & Electronics Department, Dr RML Avadh University, Faizabad, on February 28, 2019.
- Dr Rajesh Kumar Vishwakarma delivered an invited lecture on “Embedded System and its Applications for Modern Communication System”, National seminar on recent advances in material science and electronics, Organized by Physics & Electronics Department, Dr RML Avadh University, Faizabad, on February 28, 2019.

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

- Ph.D. degree has been awarded to Mr Mahendra Singh Yadav by the University for his Thesis entitled, “Nano Structured Materials for Energy Storage Devices”, under the supervision of Dr. Narendra Singh and Dr. Santosh M Bobade in April 2019.
- Ph.D. degree has been awarded to Mr Sanjeev Kumar by the University for his Thesis entitled, “Design and analysis of UWB and MIMO antenna for modern wireless applications”, under the supervision of Dr. Rajesh Kumar Vishwakarma and Dr. Ravi Kumar in March 2019.
- Ph.D. degree has been awarded to Mrs Ranu Gupta by the University for his Thesis entitled, “Secured System with Pattern Recognition for Biomedical Images”, under the supervision of Dr. Rahul Pachauri in January 2019.

**E: Student’s Activities**

- ECE technical club of JUET in association with ISF has organized “DEXTRA- 2019”, the Annual Technical Festival on April 20-21, 2019. The following events were organized in “DEXTRA-2019”:
  - Maze Runner : April 21, 2019
  - Aqua Bot : April 21, 2019
  - Kriger’s Rumble : April 21, 2019
  - Water Rocket : April 21, 2019
  - Model Display : April 20, 2019
  - Robo Race : April 20, 2019
  - Crack the game : April 20, 2019
  - Makey Makey : April 20, 2019
- Dharmendra Jain and Mahesh Kumar Singh attended International Conference on Signal Processing and Communication (ICSC- 2019) organized from March 07-09, 2019 at IIIT, Noida.
- Rishabh Naraniwal, Shivam Bajpai, Rohain Jain, Jophin Mukesh attended Artificial intelligence workshop organized by IIT Indore, during February 16-17, 2019.
- Abhinav Sharma, Abhay Khare, Vijay, Smuit, Anchit Khare attended the Short course on modelling and simulation of Nano transistors at IIT Kanpur from January 21-25, 2019.

**F: Faculty Seminar**

- Dr. Ravi Kumar delivered a talk on “Antennas and its applications” on May 06, 2019.
- Mrs. Rishika Dumka delivered a talk on “Neural network and its applications” on March 26, 2019.

**MECHANICAL ENGINEERING**

**A: Publication in Journals**

- K.L. Dhaker and A.K. Pandey, “Multi-objective Optimization in Laser Trepan Drilling of Inconel-718 Sheet by Using a Genetic Algorithm (GA)”, Lasers in engineering, Vol.42 (4-6) pp. 337-361, May 2019.
- Prashant Kumar Shrivastava, Bhagat Singh and Yogesh Shrivastava, “Prediction of optimal cut quality characteristic of Inconel 718 sheet by genetic algorithm and particle swarm optimization,” J. Laser Appl., Vol. 31, pp. 022016-1-9, May 2019.
- Mayank Sharma, Anil Kr. Tiwari and Dhananjay R. Mishra, “Experimental evaluation of a long still with Galvanized Iron sheet as condensing cover at different basin water flow rate : study of heat and mass transfer”, International Journal of Ambient Energy, DOI:10.1080/01430750.2019.1621199, May 2019.
- Dhananjay R Mishra, Hrishi Jain, Nishant Kumar and Mahendra Singh Sodha, “Experimental evaluation of solar integrated water heater”, Scientia Iranica, DOI: 10.24200/SCI.2019.50071.1510, May 2019.
- Pankaj Dumka and Dhananjay R. Mishra, “Influence of salt concentration on the performance characteristics of passive solar still”, International Journal of Ambient Energy, DOI:10.1080/01430750.2019.1611638, May 2019.
- Shailendra Kumar and Bhagat Singh, “A new approach to explore tool chatter in turning operation on lathe”, Australian Journal of Mechanical Engineering, DOI: doi.org/10.1080/14484846.2019.1583713, March 2019.



**An event by MEC department during technical fest.**





**Students participating in "Hydraulic Race" Event organized by MEC during Annual Technical Fest.**

- Prashant Kumar Shrivastava, Bhagat Singh, Yogesh Shrivastava and Arun Kumar Pandey, "Prediction of geometric quality characteristics during laser cutting of Inconel718 sheet using statistical approach," Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 41, pp. 216-236, March 2019.
- Kedari Lal Dhaker and Arun Kumar Pandey , "Particle Swarm Optimisation of Hole Quality Characteristics in Laser Trepan Drilling of Inconel-718", Defence Science Journal, Vol. 69, No. 1, pp. 37-45, January 2019.
- Girish Dutt Gautam and Dhananjay R. Mishra, "Evaluation of geometrical quality characteristics in pulsed Nd:YAG laser cutting of Kevlar-29/Basalt fiber reinforced hybrid composite using grey relational analysis based genetic algorithm", FME Transactions, Vol. 47, No. 3., pp.560-575, 2019.
- P. Dumka, Y. Kushwah, A. Sharma and D.R. Mishra, "Comparative analysis and experimental evaluation of single slope solar still augmented with permanent magnets and conventional solar still", Desalination, Vol. 459, pp.34-45, 2019.
- Manoj Dubey, Dhananjay R. Mishra, "Experimental and Theoretical evaluation of double slope single basin solar stills: A study of heat and mass transfer", FME Transactions, Vol. 47, No. 1, pp. 101-110, January, 2019.

**B: Publication in Conference Proceedings**

- Praneet Pandey, Aman Sharma and Amit Sharma, "Electric Discharge Machining of Composites- A Review" in proceeding of National Conference on Futuristics in Mechanical Engineering (FME-2019), ELK Asia Pacific Journal – Special Issue, Madan Mohan Malaviya University of Technology Gorakhpur, UP, March 28-29, 2019. PP. 358-365.
- Siddharth Gupta, Abhay Bajaj, Abhishek Sharma, Divyanshu Prakash, Rajat Bisht, Girish Dutt Gautam, Dhananjay R. Mishra, "Multi-Response Parametric optimization in Pulsed Nd: YAG Laser Cutting of Kevlar-29/Basalt/Glass fiber composite by Using Genetic Algorithm", in proceeding of 7th International Conference on "Wallop of Globalization in Engg-Medi-Sci-Agri-Pharm-Tech Research", on February 27-28 2019, pp.12-21.
- Abhishek Sharma, Abhay Bajaj, Divyanshu Prakash, Rajat Bisht, Siddharth Gupta, Girish Dutt Gautam and Dhananjay R Mishra, "Multiple kerf quality optimization in Nd:YAG laser cutting of Basalt/Kevlar-29/Carbon fiber composite using grey relational analysis", in proceeding of 2nd International Conference on New Frontiers in Engineering, Science & Technology (NFEST 2019), February 18-22, 2019, pp. 134:1-8.
- Siddharth Gupta, Abhay Bajaj, Abhishek Sharma, Divyanshu Prakash, Rajat Bisht, Girish Dutt Gautam and Dhananjay R. Mishra, "Simultaneous Optimization of kerf quality characteristics in Pulsed Nd: YAG Laser Cutting of Hybrid Composites by Using Genetic Algorithm", in proceeding of 2nd International Conference on New Frontiers in Engineering, Science & Technology (NFEST 2019) with Theme of Advances in Mechanical Engineering, February 18-22, 2019, pp. 136:1-8.

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

- Mr. Manoj Dubey presented a paper titled, "Performance analysis of single slope solar still augmented with the roller and belt conveyor", in Solaris-2019, International Conference on Renewable Energy and Sustainable Climate, Jamia Millia Islamia, New Delhi, February 07, 2019.
- Pankaj Dumka, Prince Goyal, Kedar Mishra, Gaurav Goswami, Manishi Parashar, Dhananjay R. Mishra , "Investigation of the performance of single slope solar still at different salt concentrations", in Solaris-2019, International Conference on Renewable Energy and Sustainable Climate, Jamia Millia Islamia, New Delhi, February 07, 2019. RE-013.

**D: Ph.D. Awarded**

- Ph.D. degree has been awarded to Ms. Priyanka Joshi by the University for her Thesis entitled, "Parametric Analysis and Optimization for Laser Cutting of Aerial Materials", under the supervision of Dr. Amit Sharma in May, 2019.

**E: Student's Activities**

Mechanical Engineering Society (MES) organised following events during the period:

- Do It Yourself : April 21, 2019
- Catapult : April 21, 2019
- Hydraulic Vehicle : April 21, 2019
- 3 Vessels : April 20, 2019
- Mini Dirt Race : April 20 , 2019
- Industrial setup : April 20 , 2019

**F: Faculty Seminar**

- Mr. Rohit Mishra delivered a seminar on "Residual stresses, mechanisms of development and their measurement" on April 11, 2019.
- Mr. Pankaj Gupta delivered a seminar on "Chatter in Machine tools" on February 22, 2019.

**CHEMISTRY**

**A: Publication In Journals**

- Sunil Kumar Srivastava "Assessment of groundwater quality for the suitability of irrigation and its impacts on crop yields in the Guna district, India", Agricultural Water Management, Vol. 216, pp. 224-241, May 2019.
- Naveen Kumar & Rashmi Tyagi, "Characteristic and Application of Anionic Dimeric Surfactants: A Review," Tenside Surfactants Detergents, Vol. 56, No. 3, pp. 172-179, 2019.
- Naveen Kumar & Rashmi Tyagi, "Efficiency of single and mixed dimeric surfactants micelle on solubilization of polycyclic aromatic hydrocarbon," Applied Chemical Engineering, Vol. 02, No. 1, DOI: 10.63019/ace.v1i2.545, 2019.



**Eight Ph.D. degrees have been awarded by the University during January to June, 2019.**

Departments	No. of Ph.D Awarded
HSS	02
PHY	01
CHE	01
ECE	03
MEC	01

**B: Publication In Conference Proceedings**

- Himani Sharma and Rashmi Tyagi, "Laundry Detergents and Their Environmental Impact," in proceedings of National symposium on "Green Chemistry & Technology for Sustainable Development(NSGC 2019)" organized by G H Patel College of Engineering & Technology, Vallabh Vidyanagar, Gujarat held on January 18-19, 2019, pp 42-49.

**C: Faculty Seminar**

- Dr. Sunil Kumar Srivastava delivered a seminar on "Impact of irrigation water quality on crop yield" on March 26, 2019.
- Prof. P. K. Singh delivered a seminar on "Organic Farming - Need of the hour" on May 18, 2019.

**HUMANITIES AND SOCIAL SCIENCES**

**A. Publication in Journals**

- Shekhar Singh and Sandeep Srivastava, "Engaging consumers in multichannel online retail environment: a moderation study of platform type on interaction of e-commerce and m-commerce", Journal of Modelling in Management, Vol. 14, No. 1, pp. 49-76, 2019.

**B. Conference/Seminar/Workshop Participated**

- Dr. Shekhar Singh attended one week Faculty Development Program (FDP) on "Multivariate Analysis using R" organized by PSIT, Kanpur during June 24-29, 2019.
- Tanmay Pant, Sandeep Arya, Gyanesh Jain, "Do online channels enhance profits in financial institutions: Evidence from the Indian life insurance sector", International Conference on Business and Management, Delhi Technical University, New Delhi, March 29-30, 2019.

**C. Ph.D. Awarded**

- Ph.D. degree has been awarded to Mr. Shekhar Singh by the University for his Thesis entitled, "Engaging consumers in multichannel online retail environment: a moderation study in Indian context", under the supervision of Dr. Sandeep Srivastava in June, 2019.
- Ph.D. degree has been awarded to Mr. Sanjeev Pandey by the University for his Thesis entitled, "An analysis of customer purchase intention and its antecedents in respiratory medical device", under the supervision of Dr. Sandeep Srivastava in March, 2019.

**D. Faculty Seminar**

- Dr. Sandeep Arya delivered a seminar on "Contracts in everyday life", on May 14, 2019.
- Dr. Kamini Bhasin delivered a seminar on "Meta discourse in communication", on April 22, 2019.
- Mr. Shekhar Singh delivered a seminar on "Public -Private Partnership (PPP) and its role in infrastructure development in India", on March 29, 2019.
- Dr. Sandeep Srivastava delivered a seminar on "Celebrity Endorsement", on February 19, 2019.

**MATHEMATICS**

**A: Publication In Journals**

- Reetu Kumari and D.K. Sharma, "Generalized Useful Non-Symmetric Divergence Measures and their Inequalities", Journal of Mathematical Inequalities, Vol. 13, No.2, pp. 451-466, June 2019.
- Reetu Kumari, Arunodaya Raj mishra and D.K. Sharma, "Intuitionistic Fuzzy Shapley-TOPSIS Method for Multi-Criteria Decision Making Problems based on Information Measures", Recent Patents on Computer Science, Vol. 12, No 1, pp. 1-8, April 2019.

**B: Publication In Conference Proceedings**

- Pratibha Rani, and Divya Jain, "Information Measures-Based Multi-criteria Decision-Making Problems for Interval-Valued Intuitionistic Fuzzy Environment", Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, pp.1-12, April 2019.

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

- Dr. Divya Jain attended Faculty development programme on "Deep learning and applications", organized by JUET Guna during May 27-31, 2019.

**D: Faculty Seminar**

- Dr. Vandana Mishra delivered a seminar on the topic "Partial Differential Equations" on March 30, 2019.

**MATHEMATICAL SCIENCES**

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

- Prof. Vipin Tyagi delivered a talk in an international conference CONSILIO, held at MGM College of Engineering and Technology, NOIDA, on June 08, 2019.
- Prof. Vipin Tyagi delivered a talk in an international conference ICACDS 2019 held at Inderprastha Engg. College, Ghaziabad, on April 12, 2019.
- Prof. Vipin Tyagi delivered a talk in an international conference ICIRETMPS2K19 held at Sagar Institute of Engineering and Technology, Bhopal, on February 21, 2019.

**B: Books Published**

- Advances in Computing and Data Science, Vol. 1 Editors : Editors: M. Singh, P.K. Gupta, Vipin Tyagi, J. Flusser, T.Ören, Springer Singapore publishers, 2018, DOI: 10.1007/978-981-13-1810-8, ebook ISBN 978-981-13-1810-8, Hardcopy ISBN 978-981-13-1809-2
- Advances in Computing and Data Science, Vol. 2 Editors : Editors: M. Singh, P.K. Gupta, Vipin Tyagi, J. Flusser, T. Ören, Springer Singapore publishers, 2018, DOI: 10.1007/978-981-13-1810-8, ebook ISBN 978-981-13-1813-9, Hardcopy ISBN 978-981-13-1812-2.



**A Dance performance during D'Equinox -2019.**

**PHYSICS**

**A: Ph.D. Awarded**

- Ph.D. degree has been awarded to Ms. Mukta Tripathi by the University for her Thesis entitled, "Ion conducting Polymer Electrolyte for Electrochemical Devices", under the supervision of Dr. S.M. Bobade in April, 2019.

**JAYPEE WIND ENGINEERING APPLICATION CENTRE**

- Prof. S. Arunachalam, on behalf of the Indian Association of Structural Engineers, delivered invited lectures on "Introduction to Indian Standards IS: 875 (part-3) 2015 on Wind Loads" and "Non-linear Modeling of Vortex Induced Across-wind Response of Tall Chimneys" to the practicing field engineers at New Delhi on February 9, 2019.

**TRAINING AND PLACEMENT**

150 in-campus recruitment companies have visited and more than 30 off-campus recruitment opportunities provided for 2019 batch recruitment process by companies like Interview-Bit, SAP Labs, Infoedge, Clarifai, Moengage, WebenGAGE, Clarisight, Sportskeeda, Ckevertao, Clappia, FYLE, Gamut, Analytics, Trident, Click Labs, Posist, Pixel Mind IT Solutions, Extramarks, Coviam, WWW.STAY, Kuliza, TCS Digital Hiring, Samsung R&D, Gemalto, Insider.in, (Wasteland Entertainment Pvt. Ltd.), Notesgen, Khidki, Skylark Drones Pvt. Ltd., Indiamart, Untrodden Labs, Cognizant Next, Tres Vista, Indus Valley Partner, Freshworks, Ultra Tech, Infosys – Hack with INFY, Abyeti, Eco Labs, Squad, IB Hubs, Nineleaps, WSP, Hunar Placement Service, Evaluserve India, Credihealth, Nwegen, EY, Rethink UX, Adani GAS, Real Time Data Services, Sanmar, Genpact, Knoldus, VK Publication, Urban Clap, Cvent, Wayforward, Kratikal Tech Pvt. Ltd., HCL Technologies, Infosys, Prime Seller Hub, WEP Digital, DBL, Adani Wilmar, Wipro, NIIT Technologies, NTT Data, Acadecraft, Ericsson, Cognizant, TCS, Mattesn Kumar LLC, Gulshan Homz, Phronesis Partners, Spookfish, Econ Antri, YACCA Lifesciences Pvt. Ltd., HMS Infratech Private Limited, Eigen Technologies, Map My India, Nirma Ltd., Industry Buying, Credentek, Aptara Corp., New Vision Software, Collabera, David Adamson, LIU Gong, Moglix have conducted recruitment drives.

The highlight for placement offers is as follows:-

- CSE student Shivam Saxena received highest package of 25 Lakhs/PA by InterviewBit.
- CSE student Anshuman Singh received package of 19.60 Lakhs/PA. By SAP Labs.
- CSE student Sumit Agarwal received package of 18.00 Lakhs/PA. By Infoedge.
- CSE student Suredra Kumar received package of 14.70 Lakhs/PA. By Clarifai.
- CSE student Rahul Verma received package of 14.00 Lakhs/PA. By Moengage.
- CSE student Rahul Verma received package of 14.00 Lakhs/PA. By Webengage.
- CSE student Rajat Asthana received package of 14.00 Lakhs/PA. By Clarisight.
- CSE student Apoorva Mishra received package of 10.50 Lakhs/PA. By SportsKeeda.
- CSE student Rahul Verma received package of 10.50 Lakhs/PA. By CleverTap.
- More than 25 companies offered package above 15 Lakhs PA CTC.
- Overall placement percentage offer wise is 135.91%.
- 72 Students are placed in more than one company.
- Average package offered to students is approx. 5 Lakhs/PA.
- 126 students have been offered CTC more than 4 Lakhs/PA.
- 14 students (less than 6 CGPA) are also placed.

**JUET YOUTH CLUB (JYC)**

Various activities have been conducted by JYC:

- Yoga Day : June 21, 2019
- Award Distribution Ceremony : May 14,2019
- Adios ( Farewell) : May 11,2019
- D'Equinox (2019) : March 8-10, 2019
- Matribhasha Diwas : February 21,2019
- Candle March (For Pulabama Martyrs) : February 17,2019
- Musical Night (Singing) : January 19,2019

**LEARNING RESOURCE CENTRE (LRC)**

- One Thousand fifty two (1052) volumes of books comprising of 363 newly purchased and 689 gifted books have been added to LRC.

**PROMOTIONS AND APPOINTMENTS**

- Brig Sks Negi (Retd), Registrar and Dean (Student Welfare) of the University superannuated on May 18, 2019.
- Brig Arjun Rawat (Retd) joined the University as Registrar on May 02, 2019.
- Dr. Ravindra Kumar Singh (CSE), Dr. Neelesh Kumar Jain (CSE), Dr. Nilesh Kumar Patel (CSE), Dr. Rahul Srivastava (CHE) have been promoted from Assistant Professor (Grade-II) to Assistant Professor (SG).



**Most appreciated Skit by the student in D'Equinox 2019.**

**JAYPEE UNIVERSITY OF ENGINEERING AND TECHNOLOGY, GUNA**

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