

JUET chronicle



Contents

- Visits of Dignitaries
- Important Academic Events
- Admitted Strength of Students
- New Construction or Establishment
- Contribution to Betterment of Local Surroundings
- Publication of University Journal
- Achievements - (Department -wise)
- Training & Placement Activities
- JUET Youth Club (JYC)
- Learning Resource Centre
- Promotions and Appointments

Editorial Board

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



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Visit of Dignitaries

- An expert Committee from MPPU Regulatory Commission visited the JUET campus to inspect the preparedness for starting of two new B.Tech. courses namely Electrical Engineering & Information Technology on March 05, 2016.
- Prof. K. S. Rao, Dean Infrastructure and Professor, Civil Engineering Department, IIT Delhi delivered an expert lecture on "Making of the world's Highest Chenab Bridge: Technical and Social Challenge" on July 14, 2016.
- Prof. K. K. Jain, (Former Dean, JUET and Former Professor IIT BHU), Prof. K. S. Rao, IIT Delhi, Prof. Mahendra Singh, IIT Roorkee, Prof. P. K. Mishra, Regulatory Commission, Bhopal Prof. J. N. Dube, (Former Professor, JUET and Professor Emeritus IIT BHU), and Prof. R. C. Chakravorty, (Former Director DTRL, DRDO) visited the campus as a member of interview board for faculty selections held on 13 July 2016.

Important Academic Events

- Prof. Vinayshil Gautam (Senior Advisor, KPMG, & Hon. Dean KPMG Academy) participated in Academic Council Meeting held on May 07, 2016.
- Shri K.L. Agrawal (Govt. Nominee) and Shri Raj Kumar Gupta (Govt. Nominee) participated Board of Management meeting held on May 11, 2016.

Admitted Strength of Students

For academic session 2015-16

B.Tech	M.Tech.	Diploma	Ph.D.	Total
1797	20	38	73	1923

New Construction or Establishment

- Abdul Kalam Bhawan a block of twelve new Lecture Theaters (LT) have been constructed and eight out of them are equipped with modern aid of teaching.

Contribution to Betterment of Local Surroundings

- Ministry of Environment and Forest, Government of India has constituted the District Level Environment Impact Assessment Authority (DEIAA) & District Level Expert Appraisal Committee (DEAC) for grant of environmental clearance for mining of minor minerals, for all the districts in the country. Dr. Rajeev Srivastava, (HSS) Dr. N. K. Samaiya (CE), Mr. Shiva Shankar (CE) and Dr. S. K. Srivastava (CHY) are appointed as expert members in the committee by the Divisional Commissioner, Gwalior Division, Govt. of Madhya Pradesh in April 2016.

Publication of University Journal

- The first issue of Vol. 3 of JUET Research Journal of Science and Technology (Biannual International Research Journal) published by Narosa Publishers in February, 2016.



**Department of CE
organized two day
national workshop
“NWETCCE-2016”
during April 09-10,
2016**



**Prof. K. S. Rao, Dean
Infrastructure and
Professor, CE
Department, IIT Delhi
delivered an expert
lecture on July 14,
2016.**

ACHIEVEMENTS (DEPARTMENT WISE)

CHEMICAL ENGINEERING

A: Publications in Journals

- Anmoldeep Singh, Anshumaan Srivastava, Anirudhha Tripathi and Narendra Nath Dutta “Optimization of brilliant green dye removal efficiency by electro coagulation using response surface methodology” World Journal of Environmental Engineering, Vol. 2, Issue no 02, pp 23-29, 2016.

B: Conference/Seminar/Workshop Participated

- Anmol deep Singh and Anirudh Tripathy, presented a paper entitled “Brilliant green dye removal efficiency by electro coagulation: Optimization by RSM” National Conference on Advances in Separation Technology held at NIT, Jalandhar, July 17-19, 2016.

C: BOS Meeting

- Fifth BOS meeting of the Chemical Engineering Department was held on April 28, 2016.

CIVIL ENGINEERING

A: Publications In Journals

- Gandhi S. and Singh R. P., “Empirical Formulation of Flow Characteristics in Trapezoidal Channels”, Journal of The Institution of Engineers (India), DOI: 10.1007/s40030-016-0153-3, ISSN: 2250-2157.
- Vaibhav Singh and Kanchan Mala, “Effect on Seismic Response of Building with Underground Storey Considering Soil Structure Interaction”, International Journal of Engineering Research & Technology, Vol. 5, No. 06, pp 163-167, June 2016.
- Aditya Verma and Ravindra Goliya, “Comparison of Static Wind Load on High Rise Building According to Different Wind Loading Codes and Standards”, International Journal of Engineering Research & Technology, Vol. 5, No. 05, pp 752-756, May 2016.

B: Publications In Conferences Proceedings

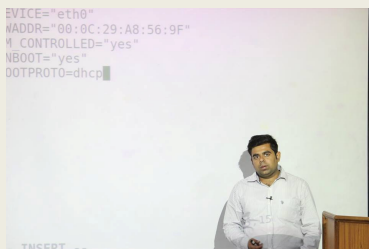
- Dr. N. K. Samaiya participated and delivered key note lecture on “Impact on Aquatic Life due to Interaction of Wash Material and Channel Bed Material” in 4th International Conference on Challenges in Environmental Science and Technology (IC-CEST-2016), Swami Vivekanand University, Sagar, MP, February 27 -28, 2016.
- Mr. Krishna Murari participated and delivered key note lecture on “Concrete, a Sustainable Material for Sustainable Development” in 4th International conference on Challenges in Environmental Science and Technology (IC-CEST-2016), Swami Vivekanand University, Sagar, MP, February 27 -28, 2016.
- Dr. Sumit Gandhi participated and delivered a lecture on “Review on Stepped Spillway and Baffle Blocks As Energy Dissipator In Gravity Dams”, 4th International Conference on Challenges in Environmental Science and Technology [IC-CEST 2016], Swami Vivekanand University, Sagar, MP, February 27 -28, 2016.
- Mr. Abhishek Verma participated and delivered a lecture on “Seismic analysis of structure with varying height and soil condition”, in proceeding of 4th International conference on Challenges in Environmental Science and Technology (IC-CEST-2016), Swami Vivekanand University, Sagar, MP, February 27-28, 2016.
- Prof. S. Arunachalam, Dr. Kanchan Mala, Dr. V.S. Babu, Mr. D.K. Shukla and Mr. Shiv Shanker participated and delivered lectures in workshop on ‘Emerging Trends and Challenges in Civil Engineering (NWETCCE-2016)’ conducted by Department of Civil Engineering, JUET Guna, April 09-10, 2016.

C: Conference/Short Term Course/Workshop Organized

- Department of Civil Engineering organized a two day workshop on “Emerging Trends and Challenges in Civil Engineering (NWETCCE-2016)”, during April 09-10, 2016.
- Mr. R. K. Mehra, Chief Engineer, PWD Bhopal, visited the campus as chief guest and delivered invited lecture on “Challenges in Flexible Pavement” in workshop NWETCCE-2016, April 09-10, 2016.
- Prof. Ashokan Pappu, Sr. Principal Scientist, Advanced Materials and Processes Research Institute (AMPRI), Bhopal, visited the campus and delivered key note lectures on “New and Advanced Building Materials: Hybrid Composite Materials for Multifunctional Applications” in workshop NWETCCE-2016, April 09-10, 2016.
- Shri U. K. Guru Vittal, Chief Scientist, Central Road Research Institute (CRRI), New Delhi, delivered key note lecture on “Using Locally Available Materials in Road Construction - Problems & Possibilities”, in workshop NWETCCE-2016, April 09-10, 2016.



**CSI@JUET
conducted two days
workshop on Cyber
Security during
March 07-08, 2016**



**CSI@JUET
conducted two day
workshop on Big
Data & Hadoop
during April 17-18,
2016**

D: BOS Meeting

- Fourth BOS of Civil Engineering department was held on March 29, 2016.

E: Students' Activities

- Mr. Sachin Tiwari, participated and delivered a lecture on "Variation of fracture parameter of Concrete with size-an experimental study", 4th International conference on emerging trends of engineering science management and its applications (ICETESMA-16), Indian International Centre, New Delhi May 01, 2016.
- Civil Engineering Forum (CEF) conducted three days Workshop on REVIT (A software specifically built for Building Information Modeling (BIM)) during March 11-13, 2016.
- CEF was Co-organizer of DEXTRA-2016 during April 22-24, 2016 and conducted events namely Bob the builder, Auto CAD and Cabinet.

COMPUTER SCIENCE & ENGINEERING

A: Publications In Journals

- Neeraj Kumar Rathore, "Ethical Hacking & Security Against Cyber Crime", Journal on Information Technology, Vol.5, No.1, pp. 7-11, February 2016.
- Neeraj Rathore, "Dynamic Threshold Based Load Balancing Algorithms", Wireless Personal Communication, DOI: 10.1007/s11277-016-3452-0, 2016.
- Neeraj Rathore and I. Chana, "Job Migration Policies for Grid Environment", Wireless Personal Communication, Vol.89, No. 1, pp. 241-269, 2016.
- Neeraj Kumar Rathore, "Faults in Grid", International Journal of Software and Computer Science Engineering, Vol.1, No.1, pp.01-19, 2016.
- Deepshikha Tiwari and Vipin Tyagi, "Improved Weber's Law Based Local Binary Pattern for Dynamic Texture Recognition," Multimedia Tools and Application, Vol.75, No. 2, pp.01-12, February, 2016.
- Harikesh Singh, Prabhat Mahanti, and Shishir Kumar, "An Efficient Content Aware Dynamic Load Balancing Algorithm for Web Servers", Journal of Next Generation Information Technology, Vol.7, No.1, pp.47-55, March 2016.
- Ratnesh Litoriya, Aditya Gaurav, Adarsh Keshari, and Ajay Kumar, "Tracking of Stolen Motor Vehicle using an Android Application", International Journal of Multidisciplinary Allied Research Review and Practices, Vol.3, No. 3, pp.491-494, May 2016.
- Deepshikha Tiwari and Vipin Tyagi, "A novel scheme based on local binary pattern for dynamic texture recognition, Computer Vision and Image Understanding, 2016, DOI : 10.1016/j.cviu.2016.04.010.
- Ghanshyam Raghuwanshi and Vipin Tyagi, "A novel technique for location independent object based image retrieval", Multimedia Tools and Applications, July 2016, pp.1-19, DOI: 10.1007/s11042-016-3747-x.

B: Publications In Conference Proceedings

- Gaurav Dhaka and Nileshkumar R. Patel, "Selecting Favorable Reference Nodes to Aid Localization in Wireless Sensor Networks", in ICT4SD, Vol. 409, Springer of the series Advances in Intelligent Systems and Computing, pp.655-663, February 26, 2016.
- Neha Jain, Amit Kumar and Shishir Kumar "Analysis of Edge Detection Techniques Using Soft Computing Approaches", IEEE Students Conference on Electrical, Electronics and Computer Science (SCECS-2016), MANIT, Bhopal, India, pp.16-21, March 05-06, 2016.
- Vinay Kumar Jain, Shishir Kumar, Neha Jain and Payal Verma, "A Novel Approach to Track Public Emotions Related to Epidemics In Multilingual Data", 2nd International Conference and Youth School Information Technology and Nanotechnology (ITNT 2016), Samara, Russia, pp.883-889, May 17-19, 2016.

C: Conference/Seminar/Workshop Participated

- Dr. Vipin Tyagi chaired a session during International Conference ComNet at Ahmadabad during February 20-21, 2016.
- Dr. Vipin Tyagi chaired a session and delivered a talk on CBIR during International Conference ICIREMPS2K16 at Sagar Institute, Bhopal during February 27-28, 2016.
- Dr. Prateek Pandey has attended a workshop on Computer Programming and GUI Development using MATLAB at PDPM-IITDM, Jabalpur (MP) during March 18-23, 2016.



Cherish moment by organizers after successful completion of Dextra 2016

- Dr. Ratnesh Litoriya attended and presented a paper titled, "Mobile Applications in context of Big Data: A Survey", 1st IEEE Symposium on Colossal Data Analysis & Networking (CDAN'16) organized by Medi-Caps University in collaboration with CSI and IEEE, Indore, MP during March 18-19, 2016.
- Dr. Vipin Tyagi delivered keynote talk during national seminar on "Assemblage of Digital Era-2016" at Bhopal School of Social Sciences, Bhopal during March 18-19, 2016.
- Dr. Prateek Pandey has delivered a talk on "Emerging Trends in Artificial Intelligence and Expert System" at IES Group of Institutions, Bhopal (MP) on April 05, 2016.
- Mr. P. S. Banerjee has attended a TEQIP-II sponsored "National Workshop on High Performance Computing (HPC-2016)" at Department of Computer Science & Engineering, BIT Mesra, Ranchi, Jharkhand, India, May 02-06, 2016.

D: Special Guest/ Examiners /Special invitee

- Dr. Vivek Kapoor, IET, DAVV Indore, visited the campus for evaluating the Dissertation of M.Tech.(CSE) on May 31, 2016.
- Dr. Jaytrilok Choudhary, MANIT Bhopal, visited the campus for evaluating the Dissertation of M.Tech.(CSE) on June 03, 2016.

E: BOS Meeting

- Eighth meeting of BOS of the Computer Science & Engineering Department was held on April 30, 2016 and Dr. Sanjai Gupta (BIET, Jhansi) participated as external member.

F: Students' Activities

- Student societies organized the following events:
 - Cyber Security Workshop - March 07-08, 2016
 - Obscura - March 09, 2016
 - Kriegers Rumble 5.0 - March 10, 2016
 - Big Data & Hadoop Workshop - April 17-18, 2016
 - A Byte of Data Structure - April 17-18, 2016

G: Achievements by Students

- Astha Tyagi (121233), Mansi Thawani (121268), Naman Rajpal (121275) and Sanigadha Malhotra (121314) have joined University of Florida, Gainesville for the completion of the B. Tech. (CSE) VIII Semester under credit transfer scheme.
- Mamta Pandey presented a paper titled "Issues and Challenges in Mobile Applications" in Souvenir of 3rd National Conference on Advances in Information and Communication Technology (Under TEQIP-II) organized by MITS Gwalior, MP, p.12, during March 04-05, 2016.
- Neha Jain presented a paper titled "Efficient Face Detection System Using DCT and SOM", 3rd National Conference on Advances in Information and Communication Technology, MITS, Gwalior, February 04-05, 2016.

ELECTRONICS & COMMUNICATION ENGINEERING

A: Publication In Journals

- Subodh Kumar Singhal and Basant Kumar Mohanty, "Efficient Parallel Architecture for Fixed-coefficient and Variable-coefficient FIR filters using Distributed Arithmetic", Journal of Circuits, Systems, and Computers, Vol. 25, No. 7, pp. 1650073-1-1650073-19, March 2016 .
- Basant Kumar Mohanty, Promod Kumar Meher, Subodh Kumar Singhal, and M. N. S. Swamy, "A High-Performance VLSI Architecture for Reconfigurable FIR using Distributed Arithmetic", Journal of VLSI Integration, Vol. 54, pp. 37-46, June 2016 .

B: Publications in Conference Proceedings

- Khushboo Pachori, Amit Mishra, Rahul Pachauri and Narendra Singh, "Envelope Fluctuation Reduction for WiMAX using Adaptive Networks Fuzzy Inference Systems", 3rd International Conference on Information System Design and Intelligent Applications, held at Vishakhapatnam and published in Springer INDIA-2016, Vol. 435, pp 19-26, February 2016.
- Prithu Roy, Akshay Jain, Prashan Bansal, Rajesh Kr. Vishwakarma and K K Verma, "An Elliptical Patch Antenna for X-band Radar Applications", International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy System Organized by Department of Electrical and Electronics Engineering, KNIT Sultanpur, Vol. 1, pp.195-198, March 11-12, 2016.
- Prithu Roy, Rajesh Kr. Vishwakarma, Akshay Jain, Rashmi Singh, "Multiband Millimeter Wave Antenna Array for 5G Communication" in Proceedings of International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy organized by Department of Electrical and Electronics Engineering, KNIT Sultanpur, Vol. 1, pp. 208-211, March 11-12, 2016.



Technical fest “Dextra 2016” held on April 22-24, 2016.

C: Conference/Seminar/Workshop Participated

- Dr. Rahual Pachauri attended two days national workshop on “Mobile Technology” organized by Department of Computer Science & Engineering, IIIT, Noida, March 17-18, 2016.
- Dr Rajesh Kumar Vishwakarma chaired a conference session and presented two papers entitled “Pyramidal-slotted Microstrip antenna for multiband operation” & “Multi Band T-Slot Circular Microstrip Patch Antenna”, in National conference on Recent Advances in Electronics & Communication Engineering organized by MITS, Gwalior, March 04 - 05, 2016.

D: BOS Meeting

- Sixth BOS meeting of ECE department was held on February 27, 2016. Prof. A.K. Sharma (Rajasthan Technical University, Kota) and Prof. S. N. Sharma (SATI, Vidisha) participated as external members.

E: Students' Activities

- Students of ECE department with other departments organized annual technical fest “Dextra 2016” during April 22-24, 2016.
 - Concrete Cube Testing (by CEF) April 22, 2016
 - Rocket Challenge (by MEF) April 22, 2016
 - Pascal's Logic (by MEF) April 23, 2016
 - Chemical X (by JCESS) April 23, 2016
 - Sudo-Kode (by CSI) April 24, 2016

MECHANICAL ENGINEERING

A: Publications In Journals

- Dhananjay R. Mishra, Anil Kumar Tiwari and Mahendra Singh Sodha, “Mathematical Modeling and Evaluation of New Long Single Slope Still for Utilization of Hot Waste Water”, Applied Thermal Engineering, Vol.108, pp. 353-357, 2016.
- Vivek Tiwari and Dhananjay R. Mishra, “Multi Response Optimization of EDM Parameters for MONEL K-500”, International Journal of Advances in Production and Mechanical Engineering, Vol. 2 No. 4, pp 53-60, 2016.
- Amit Sharma, Bhagat Singh and M. Hameedullah, “Sintering Behavior of Tin-base Alloy Under Conventional and Microwave Heating”, JUET Research Journal of Science and Technology, Vol. 3, No. 1, pp. 69-79, 2016.
- Subas Dash and Navtej Singh, “Effects of Partial Heating of Top Rotating Lid with Axial Temperature Gradient on Vortex Breakdown in Case of Axisymmetric Stratified Lid Driven Swirling Flow”, Journal of Thermal Engineering, Vol. 2, No. 4, pp. 882-896, June 2016.

B: Publications In Conference Proceedings

- Saif Ali Khan, Pranay Kumar Tiwari, Amol Shrivastava and Amit Sharma, “Laser Beam Micromachining-A Review”, Proceedings of 2nd International Conference on Advancement and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2016), held at ITS Engineering College, Greater Noida, ELK Asia Pacific Journals special issue, Vol. 2, pp. 210-215, April 2016.
- Yogesh Shrivastava, Shailendra Kumar and Bhagat Singh, “Simulation and Analysis of Tool Chatter in Turning Operation,” Proceedings of Sixth International Congress on Computational Mechanics and Simulation (ICCMS 2016), IIT-Bombay, pp 1379-1382, July 2016.

C: Conference/Seminar/Workshop Participated

- Dr. Dhananjay R Mishra presented a paper titled “Shape Factor of Fully Buried Axis Symmetry Structures Using Thermal Simulation Method”, Proceedings of 4th International Conference on Challenges in Environmental Science and Technology (IC-CEST-2016), SVN, Sagar, pp. 09, February 27-28, 2016.
- Dr. Dhananjay R. Mishra has delivered an invited talk entitled, “Solar water desalination techniques: An overview”, in 4th International Conference on Challenges in Environmental Science and Technology on Solar Water Desalination Techniques: an Overview on at SVN, Sagar, February 27, 2016.
- Dr. Yashwant Kumar Modi delivered an invited lecture on “Faceted Models from GIS Data Formats for Terrain Modeling using Additive Manufacturing” at STTP on Additive Manufacturing held at Marwadi Education Foundation, Rajkot, Gujarat, April 25-29, 2016.

D: Conference/Seminar/Workshop Organized

- A one day awareness program on, “Support for Entrepreneurial and Managerial Development of SMEs through Incubators” conducted by Mechanical Engineering Society (MES) - JUET in association with Micro, Small and Medium Enterprises (MSME), Indore, March 08, 2016.



Students of all departments conducted various events.

E: Special Guest/ Examiners /Special Invitee

- Dr. M. L. Jain, Professor and Head, Department of Mechanical Engineering, SGSITS, Indore, delivered an invited lecture on, "Rapid Product Development", June 07, 2016.

F: BOS Meeting

- BOS meeting of the Mechanical Engineering Department was held on April 27, 2016.

G: Students' Activities

- Mechanical Engineering Society (MES) organised following events:
 - Water Rocket Challenge - April 22, 2016
 - Glider Challenge - April 23, 2016
 - Pascals Logic - April 23, 2016
 - Junkyard Wars - April 24, 2016

H: Achievements by Students

- Saif Ali Khan (En.No.-121773) presented a paper on, "Laser Beam Micromachining – A Review", in 2nd International Conference on Advancement and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2016) at ITS Engineering College, Greater Noida, April 15-16, 2016.
- A team of 18 (from all four years) students participated in OFF ROAD BATTLE-2016 held at Gautam Buddha University (GBU), Greater Noida in association with SAE under the guidance of Dr. Dhananjay R. Mishra with team caption Mr. Uday Mehrotra during March 28-31, 2016.
- Vivek Tiwari presented a paper titled "Response Optimization of EDM Parameters for Monel K-500", In Proceedings of 4th International Conference on Challenges in Environmental Science and Technology (IC-CEST-2016), SVN, Sagar, pp 137, February 27-28, 2016.

CHEMISTRY

A: Publications In Journals

- Vinayika Singh and Rashmi Tyagi, "Steady-State Fluorescence Investigations of Aqueous Binary Mixtures of Myristyl Alcohol based Bis-Sulfosuccinate Anionic Gemini Surfactant and Effect of Different Conventional Surfactants therein", Journal of Dispersion Science and Technology. Vol. 37, pp.1460-1469, 2016.

B: Conference/Seminar/Workshop Participated

- Vinayika Singh, Ph.D. Scholar presented a research paper on "Micellization Investigations of Meristyl Alcohol Based Bis-Sulfosuccinate Gemini Surfactant with Anionic and Nonionic Conventional Surfactants", in International Conference on Recent Advances in Material and Chemical Sciences held at Bundelkhand University, Jhansi (U.P.) during March 02 - 05, 2016.

C: Project sanctioned

- Dr. Sunil Srivastava has got a sponsored research project entitled "Hydrogeochemical Assessments of Groundwater Quality Using Graphical & Multivariate Statistical Method, Guna District," by MPCOST, Bhopal amounting Rs 4.98 Lakhs, for the durations of 2 years.

HUMANITIES AND SOCIAL SCIENCES

A: Publications in Journals

- Abhishek Shukla, Rajeev Srivastava, "Examining the Effect of Emotional Intelligence on Socio-Demographic Variable And Job Stress Among Retail Employees", Cogent Business & Management, Vol. 3, No 1, pp. 1201905 - 1201923, 2016.
- Abhishek Shukla, Rajeev Srivastava, "Examine the Relationship between Emotional Intelligence with Demographic Profile, Job Stress, Job Satisfaction and Turnover Intention". International Journal of Applied Business and Economic Research, Vol. 14, No. 6, pp. 4887-4900, 2016.

B: Conference/Seminar/Workshop Participated

- Abhishek Shukla attended workshop on 'Content Management System and Social Science Research', organized by ICSSR and Madhya Pradesh Institute of Social Science Research (MPISSR), Ujjain held during March 15-18, 2016.
- Tanmay Pant attended 'Research Methodology Course for Ph.D. Students in Social Sciences' at Giri Institute of Development Studies, Lucknow, organized by- Indian Council for Social Sciences & Research, March 29-April 07, 2016.



**One Ph.D. degree
awarded during February
– July, 2016**



C: BOS Meeting

- Sixth BOS meeting of HSS Department was held on May 03, 2016. Dr. Shivaraj Bohr (Manager – Finance, GAIL, Vijaypur) attended as external member.

MATHEMATICS

A: Publications in Journals

- B. R. Jaiswal and B.R. Gupta, "Cell models for Viscous Flow Past a Swarm of Reiner–Rivlin Liquid Spherical Drops", *Meccanica*, DOI 10.1007/s11012-016-0385-3, pp 01-21, 2016.
- Ram Kishun Lodhi and Hradyesk Kumar Mishra, "Solution of a class of Fourth Order Singular Singularly Perturbed Boundary Value Problems by Quintic B-Spline Method", *Journal of the Nigerian Mathematical Society*, Vol. 35, pp 257–265, 2016.
- Susheel Kumar and G. S. Srivastava, "Approximation and Generalized Growth of Solutions to a Class of Elliptic Partial Differential Equations", *Functiones et Approximatio Commentarii Mathematici*, Vol. 54, No. 1, pp. 95-113, 2016.
- Susheel Kumar, "Generalized Slow Growth of Special Monogenic Functions", *Journal of Applied Analysis*, Vol. 22, No. 1, pp. 67-79, 2016.
- Susheel Kumar, "Multivalence of Bivariate Functions of Bounded Index", *Mathematical Reviews*, MR3437188, 2016.

B: Conference/Seminar/Workshop Participated

- Dr. H. K. Mishra attended an Advanced Workshop on "Singularly Perturbed Partial Differential Equations (SPPDEs): Theory, Computation & Application (AWSPPDES-2016)", held at IIT Kanpur during March 24-28, 2016.
- Rishi Kumar Pandey and Hradyesk Kumar Mishra, "Numerical Modelling For time fractional nonlinear partial differential equation by Homotopy Analysis Fractional Sumudu Transform Method", *Global Journal of Pure and Applied Mathematics*, Vol.11 No. 6, pp. 4975-4996, 2015.

C: BOS Meeting

- Sixth BOS meeting of the Mathematics Department was held on April 26, 2016.

D: Ph.D. Awarded

- Ph. D degree was awarded to Arunodaya Raj Mishra by JUET, Guna (M.P), for his thesis entitled "Transcendental Intuitionistic Fuzzy Information Measures", under the supervision of Dr. Divya Jain in February 2016.

PHYSICS

A: Publications in Journals

- Manju Mishra, S. N. Dixit and S. K. Tripathi, "Studies on Nano Gel Polymer Electrolyte based Supercapacitors", *International Journal of Computer Applications is (IJCA)*, Vol.4, No.6, pp 24-27, July 2016.
- Arnab K. Ray, "Analytical Fundamentals of Migration in Reflection Seismic", *Open Geosciences (formerly Central European Journal of Geosciences)*, Vol.8, pp 420-428, 2016.
- Mahesh Pal Singh Yadav, Anuj Kumar and A. Jayarama, "Vibrational Spectra Analysis, NBO, HOMO–LUMO, and Nonlinear Optical Behavior Studies on 3-(3,4-dimethoxyphenyl)-1-(pyridin-2-yl)prop-2-en-1-one", *Monatshefte für Chemie - Chemical Monthly*, Vol. 147, pp. 1045–1061, 2016.
- S. N. Kane, M.Shah, M. Satalkar, K. Gehlot, P.K. Kulariya, D. K. Awasthi, A. K. Sinha, S. S. Modak, N. L. Ghodke, V. R. Reddy and L. K. Varga, "Modification of Structural and Magnetic Properties of Soft Magnetic Multi-component Metallic Glass by 80 MeV 16O⁺ Ion Irradiation", *Nuclear Instruments and Methods in Physics Research B*, Vol. 379, pp 242-245, 2016.

B: Conference/Seminar/Workshop Participated

- Dr. Arnab K. Ray delivered an invited talk on "Nonlinear Dynamics of Bimodality in Vehicular Traffic" at the 3rd International Conference on Recent Trends in Physics (ICRTP 2016) held at School of Physics, DAVV, Indore, February 13-14, 2016.
- Dr. S. S. Modak presented three papers entitled "Temperature-Time Induced Changes in Magnetic Properties of Multi-component e78Si3.6C13.4Mn0.65B4.35 Alloy,"; "Thermal Annealing Modification of Structural and Magnetic Properties of Soft Magnetic Fe33.8Co50.7Nb5B8.5P2 Alloy," and "Nanocrystallization Effects on Soft Magnetic Properties of Amorphous Fe77Al2.14Ga0.86P8.4Si2.6B4C5 Alloy" at 3rd International Conference on Recent Trends in Physics (ICRTP-2016), DAVV Indore, February 13-14, 2016.



Star 'Sunburn' night during D'equinox 16 held on February 27, 2016



Sports wing of JYC conducted Cricket Inter-Year League during February 01-28, 2016



Congrats on the step up!

C: Project Sanctioned

- Dr. Santosh M. Bobade has got a sponsored research project entitled "Development of PA2200 based nano-composite materials for selective laser sintering," by MPCOST, Bhopal amounting Rs 6.44 Lakhs, for the durations of 1 year.

D: BOS Meeting

- BOS meeting of the Physics Department was held on April 29, 2016.

TRAINING & PLACEMENT CELL

More than 70 companies have visited for 2016 batch recruitment process. The highlight for placement offers is as follows:-

- Ericsson recruited 19 students.
- Jaypee Fertilizer offered job for 03 students from CHE Branch.
- TCS offered opportunity for 07 students.
- Cease Fire recruited 06 students.
- Syntel selected 05 students.
- NIRMA Limited offered job for 42 students from B.Tech – MEC / CHE & Diploma.
- Almost 60% of job offered students received their joining dates or already joined the organization.

JUET YOUTH CLUB (JYC)

Various activities work conducted by five wings of JYC. Few are as following:

- | | | |
|----------------------------------|---|------------------------|
| Cricket Inter-year League | - | February 01-28, 2016 |
| Jagran Lake University, Bhopal | - | February 03-06, 2016 |
| D'Equinox'16 | - | February 26 – 28, 2016 |
| Sangharsh'16 (Sports Fest- 2016) | - | March 11- 13, 2016 |
| JAYPEE YOUTH CONCORD'16 | - | April 30- May01, 2016 |
| ADIOS | - | May 14, 2016 |

LEARNING RESOURCE CENTRE

- Access of a new Anti plagiarism web tool URKUND has been established at LRC to facilitate the users.
- Graduating B.Tech. batch of 2015-16 , donated 410 books of different subjects to LRC.
- Twenty four M.Tech. Dissertations and 163 B.Tech. projects, completed in June 2016 and these are added in LRC collection.

PROMOTIONS & APPOINTMENTS

We congratulate following executive/faculty and staff members who were appointed /promoted during the reported duration of newsletter.

- Brig SKS Negi (Retd) has rejoined a officiating Registrar and Dean (SW) of the university from July 29, 2016.
- Mr. Kamendra Prasad Mishra & Mr. Digvijay Singh Chauhan have been given additional duties as Assistant Registrar (Administration) and Assistant Registrar (Academics) respectively from July 30, 2016.
- Dr. Manish Kumar Patidar (ECE) has been promoted from Assistant Professor (G-II) to Assistant Professor (SG) July 01, 2016.
- One staff member has been promoted from NT-7 grade to NT-6 grade, two staff members have been promoted from NT-8 grade to NT-7 grade and one special increment has been given to two staff members.

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