

# JUET chronicle



## Contents

- Visits of Dignitaries
- Admitted Strength of Students
- Publication of University Journal
- Achievements - (Department -wise)
- Training & Placement Activities
- JUET Youth Club (JYC)
- Promotions and Appointments
- Superannuations

## Editorial Board

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



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## Visit of Dignitaries

- Hob'ble MD, Shri Sunny Gaur Ji visited the campus on May 02 & 03, 2015.
- Dr. Carsten Mueller (University of Economics in Prague, Czech Republic), delivered an invited talk in International Workshop on "Intelligent Approaches for Object Oriented Modeling in Component Based Software Engineering (IAOOM-2015)", May 07-09, 2015.
- Prof. Sanjay Sharma and Prof. J .L. Bhagoria of MANIT Bhopal, visited the campus as an examiner to conduct Ph.D. Thesis Open Defense on February 07, 2015 and July 17, 2015 respectively.
- Prof. Neeraj Tyagi, MNNIT Allahabad and Prof. C.K. Jha, Banasthali University visited the campus as examiner to conduct Ph.D. Thesis Open Defense on May 11, 2015 and May 18, 2015 respectively.
- Dr. Sanjai Gupta, BIET Jhansi , Dr. Akhilesh Tiwari, MITS Gwalior, Dr. Jaytrilok Choudhary, MANIT Bhopal and Prof. Anand Pare (ME), IIT Indore visited the campus as an examiner to conduct M.Tech. Viva-Voice during June 03-12, 2015.
- Prof. Virendra Kumar, (CE), IIT BHU, Varanasi and Prof. S. C. Satapathy, ANITS Vishakhapatnam visited the campus as examiner to conduct Ph.D. Thesis Open Defense on June 12, 2015 and July 27, 2015 respectively.
- Prof. J .L. Bhagoria, HOD, Mech. Engg. Deptt, MANIT, Bhopal visited the campus on July 17, 2015.

## Admitted Strength of Students

For academic session 2015-16

B. Tech.	M. Tech.	Diploma	Ph. D.	Total
2037	37	107	69	2250

## Publication of University Journal

The first issue of Vol. 2 of JUET Research Journal of Science and Technology (Biannual International Research Journal) published by Narosa Publishers was released by the Hon'ble VC in February, 2015.

## Achievements (Department-Wise)

### CHEMISTRY

#### A: PUBLICATIONS IN JOURNALS

- Vinayika Singh and Rashmi Tyagi, "Surface and fluorescence studies of bis-sulfosuccinate anionic gemini surfactants derived from dodecanol using different flexible methylene chains as spacers", Tenside Surfactants Detergents, Vol. 52, No. 4, pp. 311-318, 2015.
- Vinayika Singh and Rashmi Tyagi, "Determination of mixed micellization properties of Bis-sulfosuccinate gemini and sodium dodecyl sulphate using steady-state fluorescence quenching", Journal of Basic and Applied Engineering Research, Vol. 2, No. 13, pp. 1086-1090, 2015.

#### B: CONFERENCE/SEMINAR/WORKSHOP PARTICIPATED

- Vinayika Singh Ph.D. scholar attended and presented a research paper in "5th International conference on Recent trends in Applied Physical Sciences, Mathematical /Statistical and Environmental Dynamics" held at JNU, Delhi on May, 02-03, 2015.
- Vinayika Singh and Geetha D, Ph.D. Scholars attended the workshop entitled "Ancillary Tools for Research" organized by Department of Mathematics & Physics, at JUET, Guna (M.P.) on June 16-18, 2015.



**Honourable MD, Shri. Sunny Gaur Ji at Jaypee Wind Engineering Application Centre**



**Prachi Ailawadi (Er No. - 07300G) Student of B.Tech. (CSE) 2007-11 Batch, cleared the CIVIL SERVICES EXAMINATION, 2014.**

## CHEMICAL ENGINEERING

### A: ACHIEVEMENTS BY STUDENTS

- Seven students qualified in GATE 2015 from Department of Chemical Engineering.

## COMPUTER SCIENCE & ENGINEERING

### A: PUBLICATIONS IN JOURNALS

- Deepshikha Tiwari and Vipin Tyagi, "Dynamic texture recognition based on completed volume local binary pattern" *Multidimensional Systems and Signal Processing*, DOI:10.1007/s11045-015-0319-6, February 2015.
- Vivek Singh and Neelesh Kumar Jain, "Digital Image Forensics in Multimedia Security: A Review", *International Journal of Engineering Research and Technology*, Vol. 4, No. 5, May 2015.
- Amit Kumar and Shishir Kumar, "An Improved Neural Network Based Approach for Identification of self & Non-Self Processes", *WSEAS Transactions on Computers*, Vol. 14, Article No. 30, pp. 272-286, May 2015.
- Nitin Deepak and Shishir Kumar, "Flexible Self-Managing Pipe-line Framework Reducing Development Risk to Improve Software Quality", *International Journal of Information Technology and Computer Science*, Vol. 7, No. 7 pp. 35-47, June 2015.

### B: PUBLICATIONS IN CONFERENCE PROCEEDINGS

- P. S. Banerjee, Gadadhar Sahoo, and Jaya Banerjee, "Procedure for Cepstral Analysis in Tracing Unique Voice Segments", In *Proceedings of 2<sup>nd</sup> International Conference on Computing for Sustainable Global Development (INDIACom-2015)*, Bharati Vidyapeeth, New Delhi, India, pp.157-162, March 11-13, 2015.
- Praveen Singh Tomar and Shishir Kumar, "Technique for Estimation of the Position of the Pirate In-Theater Piracy", In *Proceedings of 2<sup>nd</sup> International Conference on Advances in Computing and Communication Engineering (ICACCE-2015)*, IEEE Computer Society, pp 515-518, May 01- 02, 2015.
- Vinay Jain and Shishir Kumar, "Big Data Analytic Using Cloud Computing", In *Proceedings of 2<sup>nd</sup> International Conference on Advances in Computing and Communication Engineering (ICACCE-2015)*, IEEE Computer Society, pp 667-672, May 01-02, 2015.
- Dinesh Verma, Neeraj Mandhan and Shishir Kumar, "Analysis of Approach for predicting Software Defect Density Using Static Metrics", In *Proceedings of IEEE International Conference on Computing Communication and Automation (ICCCA 2015)* organized by School of Computing Science and Engineering Galgotias University, pp.736-742, May 15-16, 2015.
- Shifa Davis, Amit Kumar Srivastava and Shishir Kumar, "Automation in Cloud computing using Constraint Based Agent", In *Proceedings of the First IEEE International Conference on Computing, Communication and Automation (ICCCA 2013)* organized by Galgotia University Greater Noida, pp.635-640, May 15-16, 2015.
- Amit Kumar and Priya Shrivastava, "Hindi Derivational Morphological Analyzer and Generator using NLP Approach", In book/proceeding of the National Symposium on Computational Mathematics and information technology held along with the 17<sup>th</sup> Annual Conference of Gwalior Academy of mathematical Sciences at JUET, Guna. Book published by Narosa Publishing House Pvt. Ltd., New Delhi, pp. 227-234, February, 2015.
- Harikesh Singh, Hridesh Kumar, and Shishir Kumar, "Resource Allocation Mechanism in Grid Computing: A review", In *Proceedings of National Conference on Contemporary Computing and Informatics (NCCI-2015)*, organized by Madan Mohan Malviya University of Technology, Gorakhpur, UP, pp.137-143, May 08-09, 2015.

### C: CONFERENCE/SEMINAR/WORKSHOP PARTICIPATED

- Dr. Vipin Tyagi delivered an invited talk and chaired a session in an International Conference ICIREMPS - 2K15 held at SIRT, Bhopal, February 19-22, 2015.
- Dr. Neeraj Kumar Rathore attended the 30<sup>th</sup> M.P. Young Scientist congress, Bhopal, M.P., February 28, 2015.
- Mr. P. S. Banerjee has delivered a talk in National Seminar on "Recent Research Trends in Parallel Computing" at IES Group of Institutions, Bhopal, India, March 10-11, 2015.
- P. S. Banerjee has attended 2<sup>nd</sup> International Conference on "Computing for Sustainable Global Development" (INDIACom-2015), sponsored by IEEE Delhi Section, Bharati Vidyapeeth, New Delhi, March 11-13, 2015.
- Dr. Vipin Tyagi was resource person in a workshop on Network Security organized by Bhopal School of Social Sciences, Bhopal supported by UGC, March 13-14 2015.
- Lal Pratap Verma attended an International Conference on "Telecommunication Technology & Management" organized by Bharti School of Telecommunication Technology & Management, IIT Delhi, April 11-12, 2015.
- Dr. Vipin Tyagi delivered an invited talk on "Telecommunications and ICT- Drivers of Innovation" at Institutions of Engineers, Udaipur on World Telecommunications and Information Society Day, May 17, 2015.
- Prateek Pandey, Dinesh Kumar Verma, Ratnesh Litoriya and Amit Kumar Srivastava have attended three days International workshop on "Intelligent Approaches for Object Oriented Modeling in Component based Software Engineering" organized by JUET Guna, May 07-09, 2015.
- Neelesh Kumar Jain attended a workshop on Introduction to Design of Algorithms under the National Mission on Education through ICT (MHRD, Govt. of India) organized by Oriental College of Technology, Bhopal, May 25-30, 2015.
- Neelesh Kumar Jain attended a workshop on "Ancillary Tools for Research" jointly organized by Physics & Mathematics Department, JUET Guna, June 16-18, 2015.



**Department of CSE  
organized three days  
International Workshop  
on May 07-09, 2015**

- Amit Kumar attended three days Faculty Development program on Soft Computing with MATLAB, organized by ITM University, Gwalior, June 22-24, 2015.
- Ashish Gupta attended five days workshop on “Big Data and Advanced Video Compression” organized by Computer Engineering Department, SVNIT Surat, June 29 – July 03, 2015.

**D: CONFERENCE/SHORT TERM COURSE/WORKSHOP ORGANIZED**

- Department of CSE has organized three days International Workshop on “Intelligent Approaches for Object Oriented Modeling in Component Based Software Engineering (IAOOM-2015)”, May 07-09, 2015.

**E: Ph.D. AWARDED**

- Ph.D. degree was awarded to Harikesh Singh by JUET, Guna (MP) for his thesis entitled “Analysis and Design of Effective Strategies for Dynamic Load Balancing on Web Servers” under the supervision of Dr. Shishir Kumar in February, 2015.
- Ph.D. degree was awarded to Amit Kumar by JUET, Guna (MP) for his thesis entitled “Design and Implementation of Artificial Immune System for Security of Computers” under the supervision of Dr. Shishir Kumar in June, 2015.
- Ph.D. degree was awarded to Prateek Pandey by JUET Guna (MP) for his thesis entitled “Forecasting in Data Pauperism” under the supervision of Dr. Shishir Kumar and Dr. Sandeep Srivastava in June, 2015.
- Ph.D. degree was awarded to Ratnesh Litoriya by Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu (Rajasthan) for his thesis entitled “Existing Software Estimation Models: Validation and Improvements for Web based Projects” under the supervision of Dr. Abhay Kothari in June, 2015.
- Ph.D. degree was awarded to Paras Jain by JUET Guna (MP) for his thesis entitled “Adaptive edge-preserving image denoising in wavelet domain” under the supervision of Dr. Vipin Tyagi in July, 2015.

**F: AWARDS/HONORS**

- Dr. Neeraj Rathore was awarded fellowship for Training of Young Scientists of M. P. Council of Science and Technology in CSE & IT discipline, 30<sup>th</sup> M. P. Young Scientist Congress, Vigyan Bhawan (Bhopal), February 28- March 01, 2015.

**G: STUDENTS' ACTIVITIES**

Student of Computer Society of India, has organized following events during this period and more than 1600 students have participated in these events-

- |   |                   |
|---|-------------------|
| ▪ Typolympics   | February 02, 2015 |
| ▪ Design the Page   | February 05, 2015 |
| ▪ Oblivion 2.0  | February 08, 2015 |
| ▪ Google Maniac   | March 19, 2015    |
| ▪ Competitive Programming Workshop                        | April 09, 2015    |
| ▪ Womaz a team of Women in Mozilla foundation is created. | April 10, 2015    |
| ▪ KodeAthon 15.1 (Short)                                  | April 11, 2015    |
| ▪ Competitive Programming                                 | April 16, 2015    |
| ▪ Technical fest “TACHYON-2015”                           | May 15- 17, 2015  |
| ➢ KODEATHON 13.5 (Coding Competition)                     |                   |
| ➢ Quad-copter Workshop By AeroTriX Group.                 |                   |
| ➢ Workshop by wittyfeed, Indore                           |                   |
| ➢ Programming Contest – Coding Until Down                 |                   |

**H: ACHIEVEMENTS BY STUDENTS**

- Amanpreet Kapoor (111211), Khushboo Chawala (111246) and Prakhar Sharma (111271) have joined with University of Florida, Gainesville for the completion of the B. Tech. VIII Semester under credit transfer scheme.
- Prachi Ailawadi (Er No. - 07300G) Student of B.Tech. (CSE) 2007-11 Batch, cleared the CIVIL SERVICES EXAMINATION, 2014 with rank 542 out of 1236 selected candidates. The result was declared on July 04, 2015

**CIVIL ENGINEERING**

**A: PUBLICATIONS IN JOURNALS**

- Arunachalam S. and Lakshmanan N., “Across wind response of tall circular chimneys to vortex shedding, International Journal of Wind Engineering and Industrial Aerodynamics”, Vol. 145, pp. 187-195, 2015.
- Arunachalam S. and Lakshmanan N., “Wind Tunnel Studies on Across-wind Interference Effects between Two Models of Chimneys”, JUET Research Journal of Science and Technology, Vol. 2(1), pp. 19-38, 2015.
- Gaur H. and Goliya R., “Correlating Stiffness and Shear Lag Behavior with Brace Configuration of Tall Truss Tube Buildings”, Buildings, Vol. 5, No. 2, pp. 736-750, 2015.

**B: PUBLICATIONS IN CONFERENCE PROCEEDINGS**

- Arunachalam S., “Modelling of across wind response of tall circular chimneys to vortex shedding” Proceedings of the conference 14<sup>th</sup> International Conference on Wind Engineering (14ICWE), Porto Alegre, Brazil, Paper No. 01871, June21-26,2015.





**ECE department  
organized three days  
Workshop on July 14-  
16, 2015**

- Murari K., Mishra D.R., Jha B. and Talwar J., "Properties of Concrete Containing Polypropylene Fiber As Fiber Reinforced Material", Proceedings of Recent Trends in Science & Technology (IC-RTST 2015), pp. 93, February 27-28, 2015.

**C: CONFERENCE/SEMINAR/WORKSHOP PARTICIPATED**

- Prof. S. Arunachalam has attended and presented paper in 14<sup>th</sup> International Conference on Wind Engineering (141CWE) held at Porto Alegre, Brazil, June 21-26, 2015.
- Prof. S. Arunachalam delivered a keynote lecture on "Dynamic wind effects on tall chimneys and cooling towers" at International Workshop on Energy and Resources Development (IWERD) held at IIT-BHU, Varanasi, May 16-17, 2015.
- Dr Nitin Kumar Samaiya delivered lecture at 3<sup>rd</sup> International Conference on Recent Trends in Science and Technology 'IC-RTST 2015' held at SVNU Sagar, February 27-28, 2015.
- Krishna Murari has presented a paper in 3<sup>rd</sup> International Conference on Recent Trends in Science and Technology 'IC-RTST 2015' held at SVNU, Sagar, February 27-28, 2015.

**D: Ph.D. AWARDED**

- Ph.D. degree was awarded to Mr. V. S. Babu by JUET Guna for his thesis entitled "Properties of High-strength Concrete utilizing Processed Recycled Aggregate" under the supervision of Prof. K. K. Jain, Dr. A. K. Mullick and Prof. P. K. Singh in the month of June 2015.

**E: AWARDS/HONOURS**

- Krishna Murari received best paper award for his paper entitled "Performance evaluation of concrete with Propylene and Recron fiber" at 3<sup>rd</sup> International Conference on Recent Trends in Science and Technology 'IC-RTST 2015' at SVNU Sagar during February 27-28, 2015.

**F: STUDENTS' ACTIVITIES**

Following events were organized by Civil Engineering Forum (CEF):

- Concrete challenge February 06, 2015
- Concrete Challenge February 07, 2015
- Potential Proff March 19, 2015
- Clay Modelling April 11, 2015

**G: ACHIEVEMENTS BY STUDENTS**

- Kamal Ashish (131641) won first prize in Maglev event at IIT Kharagpur in February 2015.
- Eighteen students qualified in GATE 2015 from Civil Engineering Department.

**ELECTRONICS & COMMUNICATION ENGINEERING**

**A : PUBLICATIONS IN JOURNALS**

- B. K. Mohanty and P. K. Meher, "A high-performance FIR filter architecture for fixed and reconfigurable applications", IEEE Transaction on VLSI Systems. DOI: 10.1109/TVLSI.2015.2412556, 2015,
- Deepak Sharma, Udit Arora, Prakram Suri and Rishabh Tripathi, "Better Scheme for Multimedia Compression Using Random Discrete Fractional Fourier Transform for jpeg 2000 Standard" Journal on Image Processing, Vol. 2, No.1, pp. 28-35, March 2015.
- Shefali Sharma, Shiv Ram Dubey, Satish Kumar Singh, Rajiv Saxena and Rajat Kumar Singh, "Identity verification using shape and geometry of human hands", Expert Systems with Applications. Vol. 42, No. 2, pp. 821-832, February 2015.
- Shefali Sharma, Satish Kumar Singh and Rajiv Saxena, "Centroid-Shape-Signature-Wavelet Descriptor based Hand Biometric System" The Mediterranean Journal of Electronics and Communication, Vol. 11, No. 1, pp. 800-809, 2015.
- Shefali Sharma, Ashutosh Kumar Singh and Rajiv Saxena, "Hand shape coding: A robust approach for human identity verification" i-manager's Journal on Pattern Recognition, Vol.1, No. 3, pp. 08-17, 2015.
- Shradha Sharma, Divyank Tambi and Mrs. Shefali Sharma, "Brain Tumor Extraction from MRI images using a hybridized method of K means Clustering, Watershed segmentation and Morphological operations", International Journal of Engineering and Technical Research, Vol. 3, No. 5, pp 449-452, May 2015.
- Amit Mishra, Rajiv Saxena and Manish Patidar, "AGP-NCS scheme for PAPR Reduction," Wireless Personal Communication, Springer, Vol. 82, No.3, pp. 1201-1212, June 2015.
- Manish Patidar, Amit Mishra and Rajiv Saxena, "Probabilistic Constellation Extension scheme for PAPR reduction in OFDM signals," International Journal of Wireless and Microwave Technologies (IJWMT), MECS-Publisher, Vol. 5, No. 2, pp. 12-21, May 2015.

**B: PUBLICATIONS IN CONFERENCE PROCEEDINGS**

- B. K. Mohanty, P. K. Meher, and T. Srikanthan, "Critical-path optimization for efficient hardware realization of lifting and flipping DWTs", IEEE International Symposium on Circuits and Systems (ISCAS-2015), pp.1186-1189, May 25-27, 2015, Portugal.



**Ten Ph.D. degree  
awarded during February  
– July, 2015**

#### **C: CONFERENCE/SEMINAR/WORKSHOP PARTICIPATED**

- Rajesh K. Vishwakarma presented a paper titled, "Multiband microstrip antenna with defected ground structure (DGS)" in National Conference on Recent Advances in Microwave Engineering, MITS Gwalior, February 28- March 01, 2015.
- Rajesh K. Vishwakarma presented a paper titled, "Fractal O-shape UWB Antenna" in National Conference on Recent Advances in Microwave Engineering, Engineering, MITS Gwalior, February 28- March 01, 2015.
- Rajesh K. Vishwakarma presented a paper titled, "Comparison of impedance bandwidth for different size of equilateral triangular slot in square patch" in National Conference on Recent Advances in Microwave Engineering, Engineering, MITS Gwalior, February 28- March 01, 2015
- Dr. Rajesh Kumar Vishwakarma, Dr. Jitendra Kanungo, Dr. Rahul Pachauri and Mr. Subodh Kumar Singhal has attended three days workshop on "VLSI Design", organized by ECE Department, JUET Guna, July 14-16, 2015.
- Dr. Rahul Pachauri has attended three days workshop on "Ancillary Tools for Research" organized by Department of Mathematics & Physics, JUET Guna, June 16-18, 2015.
- Dr. Rajesh Kumar Vishwakarma has chaired a session in National Conference on 'Recent Advances in Microwave Engineering', MITS Gwalior, February 28- March 01, 2015.

#### **D: CONFERENCE/SHORT TERM COURSE/WORKSHOP ORGANIZED**

- ECE Department organized a workshop on 'VLSI Design' during July 14-16, 2015.

#### **E: Ph.D. AWARDED**

- Ph.D. degree was awarded to Mr. Rahul Pachauri by RGPV, University, Bhopal for his thesis entitled "Development of efficient algorithms for filtering and spectral analysis using fractional Fourier transform," under the supervision of Prof. Rajiv Saxena and Dr. S. N. Sharma, in March 2015.

#### **MATHEMATICS**

##### **A: PUBLICATIONS IN JOURNALS**

- Hradyyesh Kumar Mishra and Sonali Saini, "Quartic B-Spline Method for Solving a Singular Singularly Perturbed Third-Order Boundary Value Problems", American Journal of Numerical Analysis, Vol. 3, No. 1, pp. 18-24, 2015.
- B. R. Jaiswal and B.R. Gupta, "Brinkman flow of a viscous fluid past a Reiner-Rivlin liquid sphere immersed in a saturated porous medium", Transport in Porous Media, Vol. 107, No. 3, pp. 907-925, 2015.
- B. R. Jaiswal and B.R. Gupta, "Stokes flow of micropolar fluid past a non-Newtonian liquid spheroid", International Journal of Fluid Mechanics Research, Vol. 42 No. 2, pp. 170-189, 2015.
- B. R. Jaiswal and B.R. Gupta, "Stokes flow over composite sphere: Liquid core with permeable layer", Journal of Applied Fluid Mechanics, Vol. 8, No. 3, pp. 339-350, 2015.
- Susheel Kumar and G. S. Srivastava, "Approximation and generalized lower order of entire functions of several complex variables", New Zealand Journal of Mathematics, Vol. 45, pp. 11-17, 2015.
- Susheel Kumar, "Evaluation of power sums of roots for systems of non-algebraic equations in  $C^n$ ", Mathematical Reviews (American Mathematical Society), MR3230394, 2015.
- Susheel Kumar, "On relative order of entire functions of several complex variables", Mathematical Reviews (American Mathematical Society), MR3243615, 2015.
- Mishra, Arunodaya R., Hooda D. S. and Jain D., "On Exponential Fuzzy Measures of Information and Discrimination", International Journal of Computer Applications, Vol. 119, No. 23, pp. 01-07, 2015.
- Mishra, Arunodaya R., Jain, D. and Hooda, D. S., "Intuitionistic Fuzzy Similarity and Information Measures with Physical Education Teaching Quality Assessment", Springer-Advances in intelligent systems and computing AISC Series 11156, Vol. 379, chapter -5, 2015.

##### **B: PUBLICATIONS IN CONFERENCE PROCEEDINGS**

- Susheel Kumar, "Logarithmic order of special monogenic functions", In proceedings of 1<sup>st</sup> international conference of Indian Society of Information Theory and Applications (ISITA), Badhani, Punjab, India Mathematical Modeling, Optimization and Information Technology, LAMBERT Academic Publishers, pp. 575-583, 2015.
- Mishra, Arunodaya R., Jain, D. and Hooda, D. S., "Fuzzy information measures and distance measure", In Proceedings of mathematical modelling, optimization and information technology, LAMBERT Academic Publishers, pp. 196-204, 2015.

#### **C: CONFERENCE/SEMINAR/WORKSHOP PARTICIPATED**

- Dr. H. K. Mishra attended a Short Term Training Programme (STTP) on "Symbolic Computing and Numerical Programming using Mathematica/Matlab (SCNPMM)" organized by Department of Mathematics, NIT Warangal, July 10-12, 2015.
- Department of Mathematics & Physics organized a workshop on "Ancillary Tools for Research", JUET Guna, June 16-18, 2015.

#### **D: Ph.D. AWARDED**

- Ph.D. degree was awarded to Ms. Keerti Upadhyay by JUET Guna for her thesis entitled "Generalized Measures of 'USEFUL'-R-Norm Information and Mean Code word Length" under the supervision of Prof. D. S. Hooda and Dr. D. K. Sharma in April 2015.



Students of all departments conducted various events.

- Ph.D degree was awarded to Mrs. Sonali Saini by JUET Guna for her thesis entitled “Numerical Techniques for Singularly Perturbed Boundary Value Problems” under the supervision of Dr. H. K. Mishra in April 2015.

#### E: PROJECTS/GRANTS

- Dr. H. K. Mishra has received MPCOST, Bhopal sponsored research project entitled ‘Computational Methods For Solving Boundary Value Problems via He-Laplace Perturbation Method With Engineering Applications’ (MPCOST Sanction Letter No. 1013/CST/R&D/Phy&Engg Sc/2015; Bhopal 26/06/15).

#### MECHANICAL ENGINEERING

##### A: PUBLICATIONS IN JOURNALS

- Bhagat Singh and Amit Sharma, “Identification of cracks in beams using a new merged technique”, JUET Research Journal of Science and Technology, Vol. 2, No. 1, pp 95-107, 2015.
- S. Sanadhya, N. Vij, P. Chaturvedi, S. Tiwari, B. Arora and Y. K. Modi, “Medical Applications of Additive Manufacturing”, International Journal of Scientific Progress And Research, Vol. 12, No. 01, pp 11-17, 2015.

##### B: PUBLICATIONS IN CONFERENCE PROCEEDINGS

- Amrit Shiwani and Amit Sharma, “Optimization of Electro Discharge Machining of Superalloys and Composites: A Review”, International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE), ITS Engineering College, Greater Noida, Vol.2, pp. 331-339, April 10-11, 2015.
- Achal Gupta, Aditya Agrawal and Amit Sharma, “Modelling of Electro-Discharge Machining of Difficult-to-Machine Materials: An Overview”, International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE), ITS Engineering College, Greater Noida, Vol. 2, pp. 429-437, April 10-11, 2015.

##### C: CONFERENCE/SEMINAR/WORKSHOP PARTICIPTED

- Dhananjay R. Mishra delivered an invited talk on “Performance evaluation of sand bed single slop solar still”, in 3<sup>rd</sup> International conference on Recent Trends in Science & Technology (IC-RTST 2015) at Swami Vivekananda University, Sagar, M.P., February 27-28, 2015.

##### D: STUDENTS ACTIVITIES

Mechanical Engineering Society (MES), has organized following events during this period. Many students have participated in these events-

- Automobile Quiz February 10, 2015
- Techyon Events May 15 -17, 2015
  - Hydranoid Ascent May 16, 2015
  - Chem e Car May 16, 2015
  - Pascal’s Logic May 16, 2015
  - Catapult May 17, 2015
  - Structura May 17, 2015
  - Mad for CAD May 17, 2015

##### E: ACHIEVEMENTS BY STUDENTS

- Manas Tiwari (111644), Shashwat Tiwari (111672), Raghav Mehta (111660), Anshul Shrama (111697) and Madhur Bansal (111643) have obtained good scores in GRE 327, 309, 319, 320 and 311 out of 340 respectively.
- Gautam Kumar Mishra (111635), Kartik Jain (111642), Yuvraj Sharma (111695) and Manish Gupta (111647) have passed the CAT, 2015 exam.
- Twenty students qualified in GATE 2015.
- Yashwant Singh (111693) and Sonal Goel (111685) have cleared the SSB exam and joining Indian Navy and Indian Army/Indian Air Force respectively as per allotment.
- Kapil Kumar (111641) joined a PSU on the basis of his GATE score.
- Following students have taken admission to reputed foreign Universities for higher education:

Name of Student	Program	University/Institute
Shashwat Tiwari (111672)	MS	Oklahoma State University, USA
Manas Tiwari (111644)	MS	Texas A&M University, TX, USA
Anshul Sharma (111697)	MS	Arizona State University, AZ, USA

##### F. EXPERT LECTURE

- Mr. V.P. Sharma, Deputy Director, Micro, Small and Medium Enterprises (MSME), Indore delivered an expert lecture on “Support for Entrepreneurial and Managerial Development of SMEs through Incubators” on May 01, 2015.



**Comedy show by  
Abhijeet Ganguly during  
DE'QUINOX February 20,  
2015**



**Jaypee Youth Concord**

## PHYSICS

### A: PUBLICATIONS IN JOURNALS

- Anuj Kumar and Ravi Kant Upadhyay, "Optical, structural and morphological studies of ZnS nanoparticles synthesized using inorganic capping agent", Journal of Mater Sci: Mater Electron, Vol. 26, pp. 2430-2435, 2015.

### B: CONFERENCE/SEMINAR/WORKSHOP PARTICIPATED

- Dr. Arnab Kumar Ray attended and delivered a lecture titled "Evolution and Instability of Bondi Accretion" in International Conference on 'General Theory of Relativity', organized by Indian Planetary Society (Mumbai) at Charusat University, Anand (Gujarat), June 21-24, 2015.
- Dr. Arnab Kumar Ray participated as moderator and evaluator in the 46<sup>th</sup> International Physics Olympiad 2015, organized by the Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research, Mumbai, July 04-12, 2015.

### C: CONFERENCE/SHORT TERM COURSE/WORKSHOP ORGANIZED

- Department of Physics & Mathematics organized a three day workshop on "Ancillary Tools for Research", June 16-18, 2015.

## HUMANITIES & SOCIAL SCIENCES

### A: PUBLICATIONS IN JOURNALS

- Vikram Singh Chouhan and Sandeep Srivastava, "HR Competency Modeling: An empirical study in Indian IT Sector", International Journal of Human Resources Management (IJHRM), Vol. 4, No. 4, pp 01-26, June 2015.

### B: Ph.D. AWARDED

- Ph.D. degree was awarded to Mr. Vikram Singh Chouhan by JUET Guna for his thesis entitled "Competency Mapping for HR Professionals in Indian IT industry", under the supervision of Dr. Sandeep Srivastava in June 2015.
- Ph.D. degree was awarded to Mrs. Kamini Bhasin by Career Point University, Kota for her thesis entitled "Amitav Ghosh's Novels The Shadow Lines, River of Smoke, The Glass Palace and Sea of Poppies: A Critical Subaltern Study" in July 2015.

## TRAINING & PLACEMENT ACTIVITIES

- CSE student **Shivam Rana** received highest package ever in the history of JUET of 24 Lacs/PA.
- Around 65 companies have visited for 2011-2015 batch recruitment process, among them companies Like Infosys, Cognizant, Wipro, NEC Technologies, Magic Software, IBM, Aricent, Vinsol, Naukri.com, APAC Sourcing Solutions Ltd., NTT Data, Continental Automotives , Code Nation, HCL Technologies, NIRMA Ltd., Rudra Buildwell Realty Pvt Ltd, NIIT Tech, Dilip Buildcon Ltd., ERA Construction ,WebKlipper, India Bulls Technology, Kaysons Pigments (Pvt.) Ltd., MAZ Digital, Aircom International (TEOCO), ABAS, Sanaroo, Indian Navy, Indian Army, Mahindra EPC Services Pvt. Ltd., L&T Hydrocarbons, Bridgecon, Grofers have offered jobs for 473 students.
- Army conducted campus interview on February 04-05, 2015 and 68 students selected for SSB interviews.
- A record breaking 122.57 % B.Tech placement offers for 2011-2015 batch.
- Cognizant provided highest no. of placement offers among all companies visited JUET- selected 155 students.
- Highest no. of core branch placement offers by NIRMA Ltd. - selected 46 students.
- Placement Record of B.Tech. (2011-15) batch as on 07 September, 2015.

Content	CSE	ECE	MECH	CHE	CE	Total
No. of Admitted Students	109	127	100	64	92	492
No. of Eligible Students	101	114	75	53	69	412
Total No. of Offers to Students	171	145	75	22	36	449
Students Opted for Higher Studies	10	15	18	16	20	79
% of Students Placed - Offer Wise + Students Opted for Higher Studies	179.21	140.35	124.00	71.70	81.16	128.16

- Students from 2011-15 batches have undergone 6 weeks industrial training. Following are the list of few renowned firms where students have completed training :- DRDO, HAL, IOCL, ONGC, BHEL, Bharat Oman Refineries Ltd., NFL, GAIL, IFFCO, BEL, BARC, NHAI, Jaypee Cement, Jaypee Power, Ashok Leyland, Bosch, L&T MHI Boilers, L&T Power, Tata Motors, Tata Chemicals Ltd, Tata Steel, Maruti Ltd, Yamaha Motors, Eicher Tractor, Hindalco Industries Limited, Apollo Tyres Ltd, Varitech





**University is thankful to both the deans superannuated in June 2015, for their contributions**

Engineering, Kanpur Fertilizers, Kribhco Shyam Fertilizer Ltd, Pidilite Industries Ltd, Network Bulls, L & T Construction, Kirloskar Oil Engine Ltd, Reliance Industries Ltd, Star Paper Mills Ltd., DCM Shriram, Heidelberg Cement, KJS Cement, Sun Pharma, , Sobha Ltd., SMRC India Pvt. Ltd., PNC Infratech Ltd., Skeletn Consultants Pvt. Ltd., Dass Hitachi Ltd., R K Associates, IBD Universal Pvt. Ltd., BSCPL Infrastructure Ltd., Mentor Graphic, Ericsson Telecom, Essar, Uninor, Tata Teleservice, Tata Consultancy Services, NIIT, HCL, CDAC, CMC Ltd., HP Education Services Pvt. Ltd., Skyphi Technologies, National Informatics Centre (NIC).

#### **JUET YOUTH CLUB (JYC)**

The main events organized by JYC during the period February 01–July 31, 2015.

DE'QUINOX 2K15: February 19-21, 2015

Jaypee Youth Concord: April 25-26, 2015

Musical Night: May 02, 2015

Adios: May 23, 2015

#### **PROMOTIONS AND APPOINTMENTS**

We congratulate following faculty members who were promoted during the reported duration of news-letter.

- Dr. Neeraj Kumar Rathore, Dr. Yashwant Kumar Modi, Dr. Rahul Pachauri, Dr. Harikesh Singh and Dr. Dilip Kumar Sharma have been promoted from Assistant Professor (G-II) to Assistant Professor (SG).

We also welcome the following new teaching/non-teaching members who have joined us during this period:

- Prof. S. Arunachalam (Director, Jaypee Wind Engineering Application Centre) has been appointed as HOD Civil Engineering and Dean (A & R) in the month of July, 2015.
- Prof. S. K. Agrawal has been appointed as the Controller of Examinations of the university effective from June 20, 2015.
- Mr. Manoj Dubey has joined as an Assistant Professor (G-II) on April 01, 2015, Mr. Ravi Kumar Sharma Assistant Professor (G-II) on July 30, 2015 and Ms. Shakuntala Nahak as an Assistant Professor (G-I) on August 07, 2015 in the department of Mechanical Engineering.
- Mr. Srinarayan Yadav has joined as an Assistant Professor (G-I) on July 31, 2015 and Mr. Yogesh Iyer Murthy has joined as an Assistant Professor (G-II) in the department of Civil Engineering on August 03, 2015.
- Mr. Abdul Aleem Khan has joined as Finance Coordinator in the Finance and Accounts division on June 30, 2015.

#### **SUPERANNUATIONS**

- Prof. K. K. Jain superannuated as Dean (Academics), Controller of Examination and Head of Department of Civil Engineering in the month of June, 2015.
- Prof. D.S. Hooda superannuated as Dean (Research) and Head of Department of Mathematics in the month of June, 2015.

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## **JAYPEE UNIVERSITY OF ENGINEERING AND TECHNOLOGY**

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