Hilly Ramblings

Vol.5 Iss. 1 (January – March 2015)

Ranking of JUIT by **Webometrics**

JUIT has been ranked at 7332 in the World University Ranking by Webometrics. Webometrics is a ranking of all the universities of the world. Webometrics uses link analysis for quality evaluation, as it is a powerful tool than citation analysis or global surveys. In the first case, bibliometrics only counts formal recognition between peers, while links not only includes bibliographic citations but also third parties involvement with university activities. Research output is a key topic for Webometrics, not only formal publications (e-journals, repositories) but also informal scholarly communication.

The Country ranking of JUIT is 194 (out of 1622 institutions), among Asian countries JUIT has find its place at 2448 (out of 7720 Institutions); While in South Asia JUIT is placed at 249 (out of 2107 Universities). Under BRICS (Brazil, Russia, India, China & South Africa) nations, JUIT is ranked at 2018 (out of 7451 universities).

2015 (JUIT)	Ranking	Total Universities
World Ranking	7332	12000
BRICS Nation Ranking	2018	7451
Asia Ranking	2448	7720
South Asia Ranking	249	2107
India Ranking	194	1622

(Source: More details about the ranking and methodology can be found at http://www.webometrics.info/en/)

JUIT Ranked 40th By EDU-RAND

COLLEGE NAME	LOCATION	EDU RAND RANK
Jadavpur University SELECT | COLLEGE DETAIL ⊕ Add to My List	Kolkata	EDU RAND 37
Indraprastha Inst of Information Technology Delhi SELECT | COLLEGE DETAIL ⊕ Add to My List	Delhi	EDU RAND 38
Indian Inst Of Tech Bhubaneswar SELECT | COLLEGE DETAIL ⊕ Add to My List	Bhubaneswar	EDU RAND 39
Jaypee University Of Information Tech SELECT | COLLEGE DETAIL ⊕ Add to My List	Solan	EDU RAND 40

The EDU-RAND Rankings has Ranked JUIT at 40th place out of about 850 engineering institutions that were founded in 2009 or earlier and annually enrolment of at least 200 students in engineering programs. It is ranked 3rd in Himachal Pradesh. More details can be found at:

http://www.pickacollege.in/ranking

Awards and Honors

JUIT Student Shine in Royal Civil Service Commission, Bhutan

Ms. Tshering Pelden from the 2014

Civil Engineering batch has stood 12th among the 400 students who took the Civil Engineering Royal Services Exam in Bhutan.

IEEE Student Branch Awards

It is proud moments for JUIT that the IEEE Student Branch has been awarded following awards at IEEE Delhi Section Region 10.

❖ Dr. J. K. Pal IEEE award won by **Mr. Pushp Bajaj** (ECE, III year).

- ❖ Outstanding WIE Student Volunteer won by **Ms. Priya Singh** (CSE, III year)
- ❖ Outstanding Student Volunteer won by **Mr. Abhinav Kumar** (CSE, III year)
- ❖ Outstanding Branch Counselor Award won by **Mr. Tapan Jain** (ECE)

Dr. Nitin (Department of Computer Science Engineering is become slate member of IEEE Delhi section Executive Committee 2015. He is first Executive committee member from Himachal Pradesh.

PhD Awarded

Ms. Charu Suri has been awarded PhD in Bioinformatics for her research topic "Insight into Nucleation of Microtubules to Realize Novel Drug Targets". She was working under supervision of Dr. Pradeep K. Naik.

Conference Organized

Parallel, Distributed and Grid Computing (PDGC 2014)

Computer Science & Engineering department successfully hosted Parallel, Distributed and Grid Computing (PDGC) Conference held on December 11-13, 2014. PDGC received a total of 623 paper submissions from 12 different countries. After a rigid peer review process, 92 papers were selected for inclusion in conference proceedings supported by IEEE explore. Keynote speakers from around the globe graced PDGC, 2014 by their presence and knowledgeable talks. **Prof. Sartaj Sahani** from University of Florida, USA, **Prof. Philip Wadler** from University of Edinburg, UK and **Prof. Hong Shen** from University of Adelaide, Australia were notable names for keynote lectures.

Appointments

Ms. Anne Singla joined Department of Computer Science and Engineering as Assistant Professor. She is B.Tech from Punjab Technical University and M.Tech from IIT Roorkee. Her interest areas are Computer Networks & Security, Data Structures & Algorithms, and Disaster Management. Her email ID is annie.singla@juit.ac.in

Dr. Abhishek Mishra Joined Department of Computer Science and Engineering as an Assistant Professor. He has done Ph.D from IIT BHU. His interest areas are Algorithms and Computational Complexity. His email ID is abhishek.mishra@juit.ac.in

Guinness World Records

Largest Plastic Bottle Mosaic Consists of 15190 now registered in Guinness Book of World Records. This was

Promotions

Dr. Neel Kanth, Department of Mathematics has been promoted to Assistant Professor (Senior Grade).

Dr. Pradeep Kumar Pandey, Department of Mathematics has been promoted to Assistant Professor (Senior Grade) .

Dr. Vineet Sharma, Department of Physics and Material Science, has been promoted to Associate Professor.

Dr. Dheeraj Sharma, Department of Physics and Material Science, has been promoted to Assistant Professor (Senior Grade).

Dr. Rajesh Kumar, Department of Physics and Material Science, has been promoted to Assistant Professor (Senior Grade).

Dr. Ragini Raj Singh, Department of Physics and Material Science, has been promoted to Assistant Professor (Grade-II).

(5) Dr. Sanjiv Kumar Tiwari, Department of Physics and Material Science, has been promoted to Assistant Professor (Grade-II).

created at JUIT By Students of Department of Civil Engineering Jaypee University of Information Technology.

Technology Transfer

On request of Eternal University, Baru Sahib of Distt. Sirmour (HP) Dr. Sudhir Kumar and Dr. Ashish Kumar fabricated a biogas plant and transferred the technology at its university campus, on 17th January 2015.

Publications

Books

Sanjay Kataria, John Paul Anbu K, Shri Ram, Nirmal Kumar Swain, Naresh Singh Bhandari (2015). *Transforming Libraries and Librarianship*. New Delhi: KBD Publications. [ISBN: 978-81-907999-6-6].

Sanjay Kataria, John Paul Anbu K, Shri Ram, Richard Gartner (2015). Proceedings of 2015 4th Interrnational Symposium on Emerging Trends and Technologies in Libraries and Information Services. New Delhi: IEEE Press. [ISBN: 978-1-4799-7999-8].

Book Chapters

John Paul Anbu K., Sanjay Kataria, Shri Ram (2015). The Influence of ICT in the Transformation of Libraries and Librarianship: An Analysis. In Sanjay Kataria, John Paul Anbu K, Shri Ram, Nirmal Swain, Naresh Singh Bhandari, *Transforming Libraries and Librarianship* (pp. 151-157). Delhi: KBD Publication. [ISBN : 978-81-907999-6-6].

Shri Ram, John Paul Anbu K, Sanjay Kataria (2015). Mobile Information Literacy for libraries: A case study on requirements for an effective Information Literacy Program. In Gill Needham, Mohamed Ally, *M-Libraries 5: From Devices to People* (pp.). London: Facet Publishing Company. [ISBN: 9781783300341].

Mohit Bibra, Jia Wang, Phillip Squillace, Rebecca Pinkelman, Sam Papendick, Steven Schneiderman, Vanessa Wood, Vinod Amar, Sudhir Kumar, David Salem, and Rajesh K. Sani: Biofuels and Value-added Products from Extremophiles. In: N.N. Nawani, M. Khetmalas, P.N. Razdan, A. Pandey (eds.). *Advances in Biotechnology*. I.K. International Publishing House, 2015, pp. 17-51.

Journals

Abhishek Kandwal, Jai V. Chauhan, Sunil Kumar Khah (2015). Wideband Gap Coupled Sectoral Antenna for Communication Systems. *Progress in Electromagnetics Research* C, 56 (), 73-82.

Amit Kumar Singh, Mayank Dave, Anand Mohan (2015). Multilevel Encrypted Text Watermarking on MedicalMultilevel Encrypted Text Watermarking on

Medical. *Wireless Personal Communications*, (Forthcoming), [IF2013: 0.979].

Arun Kumar, Sanjay, Maneesh Jaiswal (2015), Enhanced intestinal permeability of Tinospora cordifolia extract through nanoemulsion formulation: In-vitro and ex-vivo studies. *Journal of Nanopharmaceutics and Drug Delivery*, 3 (1).

Deepali Samtani, Naman Kumar Patel, Aditya Gupta, Shruti Jain (2015), Design of Universal Gates Based on Reversible Logic. International Journal of Emerging Technologies in Computational and Applied Sciences, 11(2), 174-178.

Garima Bharti, Kumud Ranjan Jha, Ghanshyam Singh, Rajeev Jyoti (2015). Design of angular and polarization stable modified circular ring frequency selective surface for satellite communication system. International Journal of Microwave and Wireless Technologies (Forthcoming).

Garima Bharti, Kumud Ranjan Jha, Ghanshyam Singh, Rajeev Jyoti (2015). Azimuthally periodic wedge-shaped metal vane loaded circular ring frequency selective surface. *International Journal of Microwave and Wireless Technologies*, 7 (1), 95-106. [IF2013: 0.456].

One More Publication in IEEE Transactions

Dr. Vivek Kumar Sehgal, has contributed a paper in 'IEEE Transactions on Parallel and Distributed Systems'. The article will appear in Volume 99 entitled as **"Markovian Models Based Stochastic Communication in Networks-in-Package"**. Dr. Sehgal is an Associate Professor in Department of Computer Science Engineering/ Information Technology at JUIT.

Ira Vashisht, Prashant Mishra, Tarun Pal, Sreekrishna Chanumolu, Tiratha Raj Singh, Rajinder S. Chauhan (2015). Mining NGS transcriptomes for miRNAs and dissecting their role in regulating growth, development, and secondary metabolites production in different organs of a medicinal herb, Picrorhiza kurroa.. *Planta*, (), -. [IF2013: 3.376].

Kalyani, Ekta Gupta, Geetanjali Rathee, Pardeep Kumar, Durg Singh Chauhan (2015). Mood Swing Analyser: A Dynamic Sentiment Detection Approach. Proceedings of the National Academy of Sciences, India Section A: *Physical Sciences*, 85 (1), 149-157. [IF2013: SCI IF 0.179].

Kumar H., Partha Bir Barman, Ragini Raj Singh (2015). Effect of size and shell: Enhanced optical and surface properties of CdS, ZnS and CdS/ZnS quantum dots. *Physica E: Low-Dimensional Systems and Nanostructures*, 67 (), 168-177. [IF2013: 1.856].

Neha Sharma, Rajinder S. Chauhan, Hemant Sood (2015). Seaweed extract as a novel elicitor and medium for mass propagation and picroside-I production in an endangered medicinal herb Picrorhiza kurroa. *Plant Cell, Tissue and Organ Culture*, (Forthcoming), -. [IF(2013) : 2.612].

Neha Sharma, Sunanda Sharda, Vineet Sharma, Pankaj Sharma (2015). Thermal analysis of quaternary Ge-Se-Sb-Te chalcogenide alloys. *Journal of Thermal Analysis and Calorimetry*, 119 (1), 213-218. [IF2013: 2.206].

Pawan Kumar, Nitin Rawat, Da-Ren Hang, Heung-No Lee, Rajesh Kumar (2015). Controlling Band Gap and Refractive Index in Dopant-Free α-Fe$_2$O$_3$ Films. *Electronic Materials Letters*, 11 (1), 13-23. [IF2013: 3.977].

Pawan Kumar, Tarun Pal, Neha Sharma, Varun Kumar, Hemant Sood, Rajinder S. Chauhan (2015). Expression analysis of biosynthetic pathway genes vis-a-vis podophyllotoxin content in Podophyllum hexandrum Roylea. *Protoplasma*, (Forthcoming), -. [IF2013: 3.171].

Prabodh K. Bajpai, Ashish R. Warghat, Ashish Yadav, Anil Kant Thakur, Ravi B. Srivastava, Tsering Stobdan (2015). High phenotypic variation in Morus alba L. along an altitudinal gradient in the Indian trans-Himalaya. *Journal of Mountain Science*, (Forthcoming), -. [IF2013: 0.763].

Pradeep Kumar, Jose Luis Masa-Campos (2015). Waveguide fed circular micro-strip patch antenna for Ku band applications. *Microwave and Optical Technology Letters*, 57 (3), 585-589. [IF2013: 0.623].

R. Anand, Jata Shankar, B.N. Tiwary, A.P. Singh (2015). Aspergillus flavus induces granulomatous cerebral aspergillosis in mice with display of distinct cytokine profile. *Cytokine*, 72 (2), 166-172. [IF2013: 2.874].

Rajiv Ganguly, Stuart Batterman, Vlad Isakov, Michelle Snyder, Michael Breen, Wilma Brakefield-Caldwell (2015). Effect of geocoding errors on traffic-related air pollutant exposure and concentration estimates. *Journal of Exposure Science and Environmental Epidemiology*, [IF2013: 3.05].

Rohit Randhawa, Manika Sehgal, Tiratha Raj Singh, Ajay Duseja, Harish Changotra (2015). Unc-51 like kinase 1 (ULK1) in silico analysis for biomarker identification: A vital component of autophagy. *Gene*, (), -. [IF2013: 2.082].

Shagun Arora, Simran Tandon (2015). DNA Fragmentation and Cell Cycle Arrest: A Hallmark of Apoptosis Induced By Ruta Graveolens in Human Colon Cancer Cells. *Homeopathy*, 104 (1), 36-47. [IF2013: 0.746].

Shri Ram (2015). A Bibliometric Profile of Lymphatic Filariasis Research in India. Journal of *Vector Borne Diseases*, 52 (1), 1-6. [IF2013: 1.177].

Shri Ram (2015). Tag Cloud Application and Information Retrieval System: Visualization to Create Information Literacy about New Arrivals in the Library. *DESIDOC Journal of Library and Information Technology*, 35 (1), 41-46.

Tanuj Kumar, Rakesh Kumar Bajaj (2015). NTV metric based entropies of interval-valued intuitionistic fuzzy sets and their applications in decision making. *Annals of Fuzzy Mathematics and Informatics*, 9(1), 1 -21.

Tarun Kumar Patel, Rajesh Anand, Agam Prasad Singh, Jata Shankar, Bhupendra N. Tiwary (2015). Evaluation of aflatoxin B1 biosynthesis in A. flavus isolates from central india and identification of atoxigenic isolates. *Biotechnology and Bioprocess Engineering*, 19 (6), 1105-1113. [IF2013: 1.220].

Varun Kumar, Hemant Sood, Rajinder S. Chauhan (2015). Detection of intermediates through high-resolution mass spectrometry for constructing biosynthetic pathways for major chemical constituents in a medicinally important herb, Swertia chirayita. Natural Product Research: *Formerly Natural Product Letters*, (Forthcoming), -. [IF2013: 1.225].

Vipin Balyan, Davinder Singh Saini, Inderjeet Sharma, Pranjal Aggarwal (2015). Quantized-Non Quantized Code Tree Partitioning and Reduction in Internal-External Fragmentation. *Wireless Personal Communications*, (Forthcoming), -. [IF2013: 0.979].

Conferences

Anandita Singh Thakur, Pradeep Kumar Gupta, Punit Gupta (2015). Handling Data Integrity Issue in SaaS Cloud. Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications [3rd : Bhuvneshwar, India : 14-15 November, 2014], pp.127-134..

Ankita Shukla, Ashwani Kumar, Manika Sehgal, Tiratha Raj Singh (2015). Modeling and Simulation of Colorectal Cancer Pathways : An Insight into Regulatory Elements and Biological Processes. Proceedings of the Annual International Conference on Advances in Biotechnology [5th : Kanpur, India : 13-15 March 2015], pp.85-89.

Ashwani Kumar, Satya Prakash Ghrera, Vipin Tyagi (2015). A Comparison of Buyer-Seller Watermarking Protocol (BSWP) Based on Discrete Cosine Transform (DCT) and Discrete Wavelet Transform (DWT). Proceedings of the Emerging ICT for Bridging the Future - Annual Convention of the Computer Society of India [49 : Hyderabad, India : 12-14 December 2014], pp.401-408.

Ghanshyam Singh, Kant D., Gangwar U., Pratap Singh A. (2015). SQL injection detection and correction using machine learning techniques. Proceedings of the Emerging ICT for Bridging the Future - Annual Convention of the Computer Society of India [49 : Hyderabad, India : 12-14 December 2014], pp.435-442..

Indrajeet Kumar, H.S. Bhaduria, Jitendra Virmani, Jyoti Rawat (2015). Reduction of Speckle noise from Medical Images using Principal Component Analysis Image Fusion. Proceedings of the IEEE International Conference on Industrial and Information Systems,

"Surface modification of inorganic nanoparticles for development of organic–inorganic nanocomposites - A review", jointly published by *Sarita Kango, Susheel Kalia, Annamaria Celli, James Njuguna, Youssef Habibi & Rajesh Kumar appeared "Progress in Polymer Science (IF2014=26.854) has scored highest Google Citation (152) & cited in SCOPUS database (100 times), within Two Years of its Publication. The article was published in 2013.*

ICIIS- 2014 [9th : Gwalior, India : 15-17 December 2014], pp.1-6.

Kalyani, Ekta Gupta, Geetanjali Rathee, Pardeep Kumar, Durg Singh Chauhan (2015). Mood Swing Analyser: A Dynamic Sentiment Detection Approach. *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, 85 (1), 149-157.

M.K. Tripathi, Vivek Kumar Sehgal (2015). Establishing trust in cloud computing security with the help of inter-clouds. Proceedings of the Advanced Communication Control and Computing Technologies, 2014 International Conference on [Chennai, India : 8-10 May 2014], pp.1749-1752..

Meenakshi Sood and Sunil V. Bhooshan, " Hierarchical Computer Aided Diagnostic System for Seizure Classification" 2nd IEEE International Conference on "Computing for Sustainable Global Development", 11–13 March, 2015, New Delhi, pp.6.315-6.320.

Punit Gupta, Mayank Kumar Goyal, Nikhil Gupta (2015). Reliability Aware Load Balancing Algorithm for Content Delivery Network. Proceedings of the Emerging ICT for Bridging the Future - Annual Convention of the Computer Society of India [49 : Hyderabad, India : 12-14 December 2014], pp.427-434..

Punit Gupta, Satya Prakash Ghrera (2015). Load and Fault Aware Honey Bee Scheduling Algorithm for Cloud Infrastructure. Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications [3rd : Bhuvneshwar, India : 14-15 November, 2014], pp.135-143.

Shri Ram (2015). Digital Preservation of Traditional Handicraft Design of Himachal Pradesh: A Digital Library Model. Proceedings of the IEEE International Symposium on Emerging Trends and Technologies in Libraries and Information Services [4th : Noida, India : 6-8 January 2015], pp.96-99..

Shruti Jain (2015). Design and Simulation of Fuzzy System Using Operational Transconductance Amplifier. Proceedings of the International Conference on Computational Intelligence in Data Mining [Sambalpur, Orrisa : 20-21 December 2014], pp.265-273.

Yashwant Singh and Urvashi Chugh, Clustering, Information Fusion and Event Detection in Wireless Sensor Networks: A Review, Proceedings of IEEE 9th INDIACom-2015, BVICAM New Delhi, 11-13 March, 2015.

Abstract/ Poster Presentations/ Invited Lectures in Conferences:
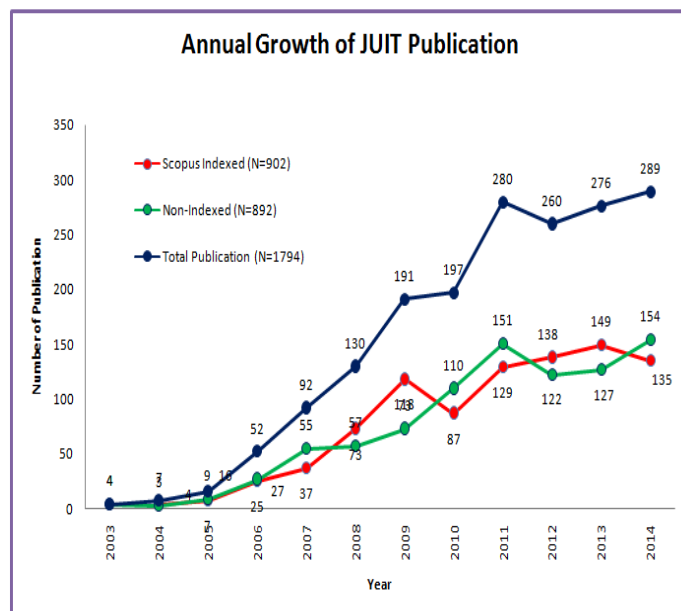
Dr. Sudhir Kumar delivered an invited lecture (solid waste to biofuels) in the first international conference on 'Recent advances in bio-energy research - ICRABR- 14 to 17 March 2015 at S.S.S. National Institute of Renewable Energy, Kapurthala, Pb. (An Autonomous Institution of the Ministry of New and Renewable Energy, Govt. of India).
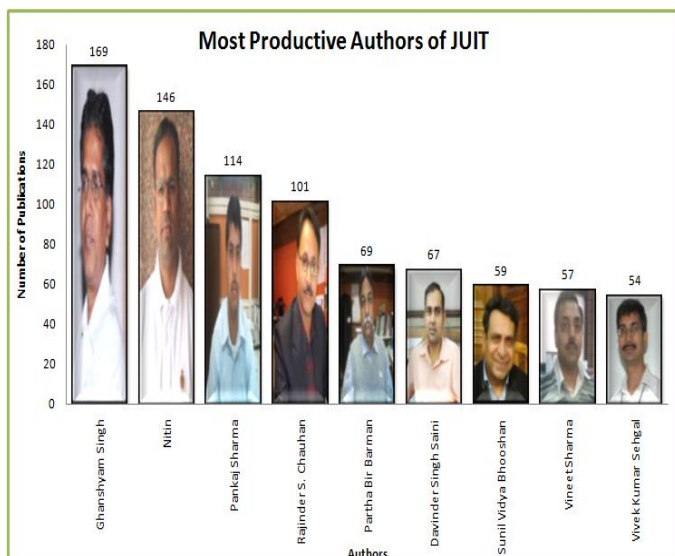
Akash Punhani, Nitin (2015). On the Performance of Mesh Interconnection Networks. Proceedings of the Inter Research Institute Student Seminar in Computer Science [Goa : February 5-7, 2015].

Sampan Attro, Niharika Singh, Gunjan Goel (2015). In vitro digestion model to access the anti-oxidative activity and bio-accessibility of fruit polyphenols. Proceedings of the International Conference on Climate Change and Sustainable Management of Natural Resources [5th : Gwalior, India : 9-11 February, 2015].

S. Attri, N. Singh, G. Goel, (2015), In-vitro digestion model to access the anti-oxidative activity and bio-accessibility of fruit polyphenols. 5th International conference on "Climate change and sustainable management of natural resources", February 9-11, 2015, ITM University, Gwalior.

Status of JUIT Publication Till December 2014

Annual Growth of JUIT Publication

Most Productive Authors of JUIT

Number of Publications by Authors: Ghanshyam Singh 169, Nitin 146, Pankaj Sharma 114, Rajinder S. Chauhan 101, Partha Bir Barman 69, Davinder Singh Saini 67, Sunil Vidya Bhooshan 59, Vineet Sharma 57, Vivek Kumar Sehgal 54

Workshop/ Seminar/Conference Attended

❖ **Dr. Pooja Jain** of Department of Computer Science and Engineering attended workshop on "Women in Engineering Science" at Maulana Azad National Institute of Technology (MANIT) Bhopal on 23-24 February 2015.

❖ **Session Chaired: Dr. Jitendra Virmani** chaired a special session on "CAD System Design and its Applications" during 9th IndiaCOm-2015 (2nd IEEE International Conference on Computing for Sustainable Global Development) held on 11th to 13th March' 2015 at Bharati Vidyapeeth, New Delhi.

"It does not matter how slowly you go as long as you do not stop."

— Confucius

❖ **Dr. Shruti Jain** chaired a session at International Conference on Recent Cognizance in Wireless Communication & Image Processing (ICRCWIP-2014), Poornima Institute of Engineering & Technology, Jaipur, during Jan 16-17, 2015.

❖ **Paper Presented: Dr. Jitendra Virmani** presented a paper titled "Despeckle Filtering: Performance Evaluation for Malignant Focal Hepatic Lesions " during 9th IndiaCOm-2015 (2nd IEEE International Conference on Computing for Sustainable Global Development) held on 11th to 13th March' 2015 at Bharati Vidyapeeth, New Delhi.

❖ **Dr. Shri Ram** attended 10th International CALIBER, held at Indian Institute of Advanced Studies, Shimla during 12-14 March 2015.

Invited Lectures

Prof D. K. Banwet delivered a lecture on **"Supply Chain Management"** on February 5 2015. Professor Banwet is an Emeriatus professor at DMS IIT Delhi. Prof Devinder Kumar Banwet is Professor and Group Chair, Operation and Supply Chain Management. He is a Graduate mechanical engineer, a master in Industrial Engineering and PhD in Production and Operation Management from IIT Delhi. He has been former Head of DMS, IIT Delhi. His areas of research interest include operation management, supply chain management and logistics management.

JUIT ALUMNI IN 'All INDIA SERVICES Mt. EVERST EXPEDITION 2015'

Mr. Suhail Sharma, an IPS of the 2012 batch of Maharashtra cadre, is among the five-member first All India Service Expedition to Mount Everest 2015. The expedition will be flagged off on March 26. The maiden service expedition aims to scale highest mountain Mount Everest at 8,848 metre. Four other members of the expedition are

Vikram Jindal, Ravindra Kumar, Saroj Kumari and S Prabhakaran. Mr Sharma is alumni of Jaypee University of Information Technology and did Bachelor Degree in Electronics and Communication Engineering in 2002-2006 Batch (Photo Source: The Expedition Facebook Page).

Hilly Ramblings

Quarterly Newsletter of JUIT

Editorial Board

- Dr. Shri Ram, Learning Resource Center
- Dr. S.K. Jain, Department of Civil Engineering
- Dr. D. S. Saini, Department of Electronics and Communication Engineering
- Dr. Aklank Jain, Department of Biotechnology & Bioinformatics
- Dr. S.K. Hazra, Dept of Physics and Material Science
- Dr. Sakshi Babbar, Dept of Computer Science
- Dr. Neel Kanth, Department of Mathematics

Comments and Feedback are invited at: **hillyramblings@juit.ac.in** :*: **Like us on Facebook**: https://www.facebook.com/hillyramblings