

IIT Jammu's Newsletter Fall '18

JAGTI जगती



विद्याधनं सर्वधनं प्रधानम्

भारतीय प्रौद्योगिकी
संस्थान जम्मू
INDIAN INSTITUTE OF
TECHNOLOGY JAMMU



IIT Jammu celebrated its **3rd Foundation Day on 6th August, 18**. A vibrant event had been organised where Prof. Ashok Aima, VC, Central University Jammu, and Mr. Parvez Ahmed, Chairman J&K Bank were invited as special guests. As a token of appreciation, J&K bank announced gold medals for the academic toppers of IIT Jammu. Furthermore, they also presented IIT Jammu with an ambulance. The event ended with a tree plantation ceremony and high tea.

Registrations 2018 - Entry batch



On 2nd August 2018, a total of 135 students enrolled in the B.Tech program of IIT Jammu. This year, B.Tech Chemical Engineering was added into the mix of the programs offered by the Institute. Owing to the successful initiative of adding supernumerary seats for the female candidates, **16%** of the enrolled candidates were females - 12% more than the previous batch's intake.

Expansion into the North Block



For the first time, in August 2018, IIT Jammu welcomed all three of its B.Tech batches together into the Transit complex at Jagti. Up until then, the first batch was stationed at the temporary campus in Paloura, while the second batch was at Jagti. Currently the hostels in the Jagti campus house about 320 students who attend classes and labs in the newly operational North Block.

Independence Day



IIT Jammu celebrated India's 69th Independence Day by unfurling the National flag at the campus in Jagti. This was followed by a variety of performances such as drama, music, poetry and debate by the students. These efforts by the students were unanimously appreciated by the faculty and staff.



FDP on Energy Sustainability

A three-day Faculty Development Programme on “Energy Sustainability” was organized at IIT Jammu, Jagti Campus from June 4 to 6, 2018.

Distinguished speakers from various IITs, IISERs, a CSIR, CPRI and Institute for Plasma Research across India were there for interaction and discussion on the fields like plasma research, nuclear fusion, renewable energy storage, CO₂ sequestration, bioenergy, recent emissions regulations, alternate fuel strategy, generation of hydrogen fuel by water splitting, strategic issues relating to the smart grid and integration of renewable energy etc. The programme provided a platform to an in-depth discussion on the various challenges and their possible remedies which will benefit participants from academic and R&D institutions, engineers of utilities and policymakers. In addition, it was a suitable platform for networking as well.



Intl. Yoga Day

IIT Jammu celebrated the International Yoga Day on June 21, 2018. Sh. Bheem Singh from Shree Neelkantha Yoga Kendra, Lucknow conducted a workshop where he demonstrated various *āsanas* and breathing exercises to enhance physical and spiritual wellbeing.



Swachh Bharat Abhiyan

Taking the cleanliness movement forward, the students of IIT Jammu worked to spread the message of Swachhata through street plays, poster-making competitions and awareness drives through the villages near IIT Jammu campus in Jagti, Jammu.



Welfare Club IIT Jammu

The Social Welfare Club of IIT Jammu has been regularly organising clothes-donation drives and literacy drives for the construction labourers. The club has proven to be one of the most successful student-driven initiatives of IIT Jammu.

Outreach at Police Academy Udhampur

The Sher-i-Kashmir Police Academy Udhampur organised a week-long training course for Inspectors, Dy.Sps and Superintendent of J&K Police on the topic “Good Communication Skills, Behavioural Attitude and Responsibility Towards Police and General Public”. Dr. Karan Nathwani was invited to give a lecture on “Stress and time-management for self leadership in police organisation”, Dr. Quleen Kaur Bijral conducted an interactive session on “Confronting the Communication Gap, Mental Block and Stage Fright with Self Motivation” and Ms. Ishita Mahajan gave a talk on “Communication and Listening Skills”.



Foundation Program - August 2018



The Foundation Program at IIT Jammu was a 9 days long mixed-bag event, based on the concept of **Creativity, Culture and Communication**, or the 3 C's. The new batch of B.Tech students was encouraged to revive their sense of curiosity and creativity through hands-on workshops such as Aeromodelling workshop, Basohli Painting, Toy Making and Screen Printing, Creative Engineering, Amazing Chemistry, Reverse Engineering, Pottery and Clay-modelling, Singing, Theatre, Innovation and Design, and many more. The students also attended Yoga workshops, Zumba Sessions and Heartfulness Meditation session in the morning. The Foundation Program earned a lot of appreciation from the students as it helped them open up and feel comfortable in their new environment. Moreover, the workshop was successful in assisting the students in rediscovering their creative tendencies.

SEMINARS, TALKS AND WORKSHOPS



- “Workshop on RC Quadcopters” by Tech Eagle - 17th, 18th April 2018.
- “Aero-trix Glider Making Workshop” by SkyFi Labs - 24th April 2018.
- “Symmetry and Laws of Nature” by Prof. P.C. Deshmukh, IIT Madras - 8th Aug, 2018.
- "Complex Behavior of Simple Systems" by Prof. P.C. Deshmukh, IIT Madras - 10th Aug, 2018.
- "Visual Perception and its Application in Image Processing" by Dr. Jhaketiya, IIT Jammu, 31st Aug, 2018.
- “A Brief Introduction to Quantum Paradigm” by Dr. Subhamoy Maitra, ISI Kolkata - 21st Sept, 2018.
- “Feature Selection in High Dimensions” by Dr. Yamuna Prasad, IIT Jammu - 28th Sept, 2018.
- “The Fascinating World of Compilers” by Dr. Amey Karkare, IIT Kanpur - 29th Sept, 2018.

Latest MoU's

IIT Jammu has signed MoU's with the following institutions to collaborate in Education, Internships and Research, jointly organize seminars conferences & workshops:

- UTECH, Iran
- MNIT Jaipur
- SCL (Semi-Conductor Laboratory)



Trekking and Rappelling Trip to Sanasar organised by IIT Jammu in April, 18.



IIT Jammu organised its **first ever Intra-college sports meet**, “Convoquer” in April 2018. It was a week-long event populated by a variety of sports such as Cricket, Badminton, Volleyball, Basketball, Chess, Table-tennis and also featured mountain sport such as Rappelling. The Computer Science branch emerged as the overall winner while Mechanical Engineering bagged the first place in Women's Badminton and Cricket, and Electrical Engineering took the lead in Volleyball and Men's Badminton. The meet successfully concluded with a prize-distribution ceremony and concluding dinner.



Society of Automotive Engineers (SAE) is a premier Engineering society of multi-disciplinary professionals and students worldwide, which creates standards, publishes journals and hosts numerous engineering competitions. SAE has its chapters (Collegiate Clubs) in all established IIT's as well as in numerous other universities, accounting for a total of 427 Collegiate Clubs in India itself.

With a 55-members strong SAE club, with Dr. Anand Subramanyan as advisor, IIT Jammu has become the first 3rd generation-IIT to enter this platform. Furthermore, team Kinesis from SAE IIT Jammu has successfully qualified the virtual round of BAJA SAE-India, and is set to compete with the various 2G IIT's in the main event of BAJA 2019 at IIT Ropar, from 7-10 March 2019. The members of Kinesis are: Aviral Sharma (Captain), Shubhendra Singh Yadav (Vice Captain), Aayush Gupta, Saurabh Raj and Vivek Singh.

Students' Parliamentary Debate & Elections



The student-body of IIT Jammu conducted a Parliamentary Debate on 2nd and 3rd September 2018 to draft the constitution for the student-run clubs. The debate was successfully moderated by Aakar Sharma and Aashutosh Trivedi, under the supervision of the Associate Dean (SW), the hostel wardens and other members of the faculty as part of the panel. Shortly after, the Election Commission was instituted to conduct elections.

General Secretary
Saurabh Raj
Cultural Secretary
Himanshu Kejriwal
Academic Secretary
Dushyant Lambora
Sports Secretary
Aashish ranjan
Mess Secretary
Manish Pandey
Hostel Secretaries
(B) Karnpal Yadav
(G) Ishali Kalsi

Dr. Shivnath Mazumder

"Life can only be understood backwards, but must be lived forwards" – Soren Kierkegaard

Dr. Shivnath Mazumder completed his Ph.D. in Computational Chemistry from Indiana University, Bloomington, USA in 2013. Before joining IIT Jammu in the Department of Chemistry, he was a postdoctoral scientist at Wayne State University, Michigan, and an Assistant Professor at Hofstra University, New York, USA. His main research interest is the application of photo-catalytic water splitting to generate hydrogen gas, developing an alternative fuel hydrogen economy throughout our entire nation. Other than research, he enjoys trekking in Jammu.

Dr. Ravikant Saini

"I have not failed. I have just found 10000 ways that would not work." - Edison

Dr. Ravikant joined IIT Jammu as an Assistant Professor in the Department of Electrical Engineering in December, 2017. He finished his Ph.D. from IIT Delhi in 2016, and his MTech and BTech from IIT Roorkee in 2005 and 2001, respectively. He has worked in the Communication Industry for more than four years, and has a substantial teaching experience. His research interests include wireless communication, resource allocation, physical layer security, and the Internet of Things. He enjoys sketching, photography, poetry, meditation and social welfare activities.

Dr. Swagata Bhaumik

"All that you may achieve or discover, you will regard as a fragment of a larger pattern of the truth" - Harvard Society of Fellows

Dr. Swagata Bhaumik joined the Department of Mechanical Engineering, IIT Jammu on 29th December, 2017 as an Assistant Professor. Dr. Bhaumik obtained his Ph.D. from the Department of Aerospace Engineering, IIT Kanpur on 2013, M.Tech from Department of Aerospace Engineering, IIT Kharagpur in 2007 and B.Tech in Mechanical Engineering from NIT Rourkela in 2001. His PhD thesis, titled "Direct Numerical Simulation of Transitional and Turbulent Flows", studies the routes of transition for a canonical flow past a flat-plate using high-accuracy numerical methods. Dr. Bhaumik's research interest includes theoretical and computational fluid dynamics, transition and turbulence, nonlinear dynamics and high-performance computing.



Dr. Rajendra Varma

"Disciple is one of the easiest to speak about and hardest to follow. Half of the battle is won by discipline only."

Dr Rajendra Varma joined as Assistant Professor in the Department of Civil Engineering. He obtained his Ph.D. from the University of Minho, Portugal. Before joining IIT Jammu, he has worked as structural engineer in Bechtel, Cowi and Aarvee Associates where he was involved in the designing and analysis of railway bridges. His research interests include CFRP confined concrete elements, use of advance materials in construction, nonlinear finite element analysis, and bridge design and analysis. His hobbies include travelling and listening to music.

Dr. S. Anand Kumar

"Dream is not that which you see while sleeping it is something that does not let you sleep." - Dr. APJ Abdul Kalam

Dr. S. Anand Kumar obtained his Ph.D. from IIT Madras, where he was awarded the Best Ph.D. thesis award. Prior to joining in the Department of Mechanical Engineering at IIT Jammu, he has worked with TSMC, Taiwan world's largest contract chipmaker for electronic devices as a Principal Engineer. In addition, he did his post-doctoral research on a part-time basis at Tamkang University, Taiwan. His research interests include surface engineering, fretting wear, fatigue and fracture, experimental Tribology, non-traditional machining, Artificial Neural Network for wear prediction, and additive manufacturing. His hobbies include trekking, and meditation.

Dr. Samrat Rao

"Try not to become a man of success, but rather try to become a man of value" – Albert Einstein

Dr. Samrat Rao is an Assistant Professor in the Department of Mechanical Engineering, IIT Jammu. He earned his PhD from the Department of Mechanical Engineering, IISc. He did his post doctoral research under Professor Roddam Narasimha at the Jawaharlal Nehru Centre for Advanced Scientific Research. His interest lies in the area of fluid dynamics, and more specifically in understanding fluid dynamical behaviour through numerical simulation of such phenomena. Besides spending time with his family and devoting himself to teaching and research, his hobbies include reading novels and articles of interest to him, as well as dabbling in defence related matters.

