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AnuNaad

A JIIT Newsletter



Jaypee Institute of Information Technology
(Declared Deemed to be University under Section 3, UGC Act)
A NAAC Accredited and NIRF (MHRD) Ranked Deemed University

Inside Newsletter

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Editorial

Welcome all you Patrons of “Anunaad” to the current issue that brings forth the continued journey of educational excellence at JIIT, NOIDA. The edition opens with “Words of Wisdom”, from Hon’ble Vice Chancellor Prof. S C Saxena, who beautifully explains what makes Engineering education at JIIT unique and how a balance of Vision, Mission and Core values is upheld at JIIT.

The issue presents prized accomplishments of JIIT, beginning with AICTE approval to Engineering studies at JIIT and ranking of JIIT amongst the country’s top 100 by MHRD, Gov. of India. Achievements such as this come neither by luck nor by accident. It takes lots of planning and guidance by the management, hard work and perseverance by committed faculty, coordinated execution by work force, goal oriented learning, study and performance by students to attain such rewards.

Issue 1, Volume 3 of “Anunaad” brings to you a capsule of information about research at JIIT. Faculty from JIIT are foraying into various domains of research showing a perception of the latest developments in Engineering, Pure & Applicative Sciences. More than 300 publications in indexed International Journals and 236 Lakh rupees received as research grant from prestigious Government agencies during the period are a clear evidence of the drive and initiative of JIIT to make its mark in Innovation & Research. Sustained placement record of the Institute presented in the pages of “Anunaad”, is a testimony for the Industry compliant education and training offered to students at JIIT.

Staying true to the spirit of promoting ‘knowledge-driven-education’, the Institute has organised 3 International conferences, 17 workshops and 7 Faculty development programs, during the period, as detailed in the subsequent pages of this issue. These activities have greatly contributed in facilitating interaction between eminent academicians, scientists and scholars from different areas of core Engineering, Pure & Applicative Science research, opening new avenues of scientific enquiry and learning. Receipt of Shri Omprakash Bhasin award by faculty at JIIT is an acknowledgement of scientific talent and “Anunaad” presents a concise summary of accolades won by faculty and students of JIIT.

Students are the life blood of the Institute. “Anunaad” has dedicated student’s activity pages reporting student’s participation and brilliance in academic, technical, co-curricular, extra-curricular, cultural, literary and societal endeavours. A depiction of festivals celebrated on campus and student’s skill in photography adds more colour to the newsletter.

The road to success is not easy to navigate, but with hard work, drive and passion, it’s possible to achieve the toughest of the goals and we at “Anunaad” would constantly strive to bring out every such achievement of JIIT on its pages as a small token of pride and encouragement for every deserving member of the JIIT family.

With all good wishes we remain.

Prof. S Krishna Sundari
Editor-in-Chief



In conversation with Hon'ble Vice-Chancellor Prof. S.C. Saxena

1. What is your philosophy of education in connection to the current times?

For long, I have believed in the profound quote of John Dewey that, "Education is not a preparation for life; education is life itself." This really helped me shape a stronger philosophy of education: a process that inculcates all aspects required by an individual, not only to live life to the fullest but also to shape a better society. For me, this includes the holistic development of students allowing them to emerge as young professionals fuelled with the confidence to perform as well as having the competency to do so. I believe it is this philosophy that makes JIIT an institution of its kind.

2. Which one is most important parameter to your organisation; Mission, Core Values or Vision? What according to you are the most important decisions you make in your role within the organisation.

JIIT has consistently stood strong by being amongst the top 100 engineering institutions and universities through various national ranking systems and this has only been made possible by maintaining the integrity of our core values, mission and vision. All these are in fact the integral part of our organization and as a Vice-chancellor, it has been my honor to inspire and motivate young minds to stay rooted to their and the institution's values. I have always inculcated in my students and faculty to have a clear goal in mind and most importantly have always encouraged them to give their best.

3. Over the years, you must have faced many challenge in keeping up the enthusiasm, continuing on the path of growth across all levels. How did you handle this in a positive tenor?

Positivity is always reflected from within. One can never truly overcome a challenge if one does not believe in one's ability to do so. Learning is a continuous process and being a part of this institution has strengthened my optimism. In the famous Harry Potter novels, Albus Dumbledore beautifully remarked, "Happiness can be found even in the darkest of times, if only one remembers to turn on the light". I live in the present and set an example of positivity, which yields positive results. I firmly believe that in the long run, the fruits of education are sweet and make life more meaningful.

4. Which aspect impressed you the most in JIIT system of education and why?

JIIT's system of education as a whole is commendable. What impacted me the most is not one but a number of inter-related aspects that make studying in this university an experience in itself. The academic curriculum looks at not only honing the technical skills of the students but also seeks the inclusion of contemporary topics, constantly upgraded and revised to nurture ethical and moral values in students. The regular revision of courses along with a variety of electives to choose from, give the students an opportunity to imbibe the true goals of education; intelligence and character. In my opinion, the bond between the faculty and the students creates a competitive edge, parallel to none.

In conversation with Vice-Chancellor Continued...

5. What do you do to encourage creative thinking within the organization?

Creativity for me is not just thinking differently but also asking questions that make a difference. I am a firm believer of thinking out of the box and advocate independence of thought and expression. I encourage my faculty to put their imagination to work as some of the most extraordinary innovations in the history of human culture have been a result of passionate goals implemented successfully.

6. What platform/resources do you use to gather diverse ideas in the spirit of organizational development? How do you keep communication channels open?

My students, faculty and staff know that I follow an open-door policy. All conversations and ideas are met with an open mind and positive attitude. I promote constant assessment through consultation, feedback and regular interaction, allowing better understanding of the system, where everyone feels involved, willing to participate and to contribute.

7. What is that one characteristic which, in your opinion, should a student of JIIT possess?

Students of JIIT, in my opinion, should possess the abilities of problem solving and logical thinking but should also uphold their values of

integrity and team spirit.

8. What is the biggest challenge facing the institute in the current context.

For an institution like JIIT, the biggest challenge is maintaining consistency and enhancing academic and research excellence at par with peer group institutions.

9. What are the areas where there is scope for improvement that would take JIIT to greater heights?

I believe more initiatives should be taken by students and faculty alike for research and publications in order to expand the teaching-learning and research process.

10. Where do you think JIITians would be able to contribute to attain the goals of contemporary world order?

JIITians are well-rounded individuals, who can be effective and efficient corporate members and also at the same time contribute significantly in the field of research, publications and in developing patents which would showcase their true brilliance. Summing up, as Jose Marti says, "Men are like the stars; some generate their own light while others reflect the brilliance they receive."



JIIT National Ranking

The National Institutional Ranking Framework (NIRF) was initiated by MHRD, Govt. of India in the year 2015, for ranking higher education institutions across the country. On the basis of that, MHRD publishes a list of top 100 institutions every year, since 2016. JIIT has the proud privilege of securing a rank in the top 100, both under the Universities category and the Engineering institutions category, consistently, since its initiation in 2016 and holds it to date. The parameters broadly cover, "Teaching, Learning and Resources,"; "Research and Professional Practices,"; "Graduation Outcomes,"; "Outreach and Inclusivity," and "Perception". This year, JIIT holds seventieth position amongst 906 Engineering institutes that competed in the ranking and it includes IITs, IIITs, NITs and renowned Central engineering institutions. As a University, JIIT ranks amongst the top 100 premier Universities in the country.

Memorandum of Understanding Between



**JAYPEE INSTITUTE OF
INFORMATION TECHNOLOGY,
INDIA**

and



**UNIVERSITY OF AGORA,
ROMANIA**

During the conference held on December 18, 2017 an MoU was signed between JIIT and the University of Agora, Romania, for collaboration towards joint research, faculty and student exchange. Hon'ble Vice Chancellor, Prof. S.C. Saxena represented JIIT and Prof. Ioan Dzitac, Rector, University of Agora represented the Romanian university.



AICTE approval granted

All India Council for Technical Education (AICTE) is a national-level apex advisory body that surveys the facilities available for technical education and accords approval for the same. Under recent guidelines of the Govt. of India, Deemed-to-be Universities had to seek approval for its UG and PG programs from AICTE. Consequently, JIIT sought approval from AICTE. It is a matter of pride and prestige for the Institute that all its programs in the streams of Computer Sciences, Information Technology, Electronics & Communications Engineering, Biotechnology and Business Studies were granted approval (April 10, 2018) by AICTE.



Extramural Research Grants

Government of India sponsored projects awarded to IIIT faculty during the period January, 2017 to December, 2017

Name of Project Investigator (PI) - Dr. Indira P. Sarathy, Associate Professor

Name of Co - PI - Dr. Sanjay Gupta, Prof.

Department - Biotechnology

Title of Project - Potentially novel carbohydrases (cellulose and related enzymes) for waste management from functional metagenomics library of North East India biodiversity hot spot.

Funding Agency - Department of Biotechnology (DBT)(BCIL)

Project Grant Value - Rs. 22,21,000/-

Project Period - January 17, 2017 - January 16, 2020

Project Brief Outline - The project involves bioprospecting of unexplored biodiversity-rich tropical forest (Dehing Patkai, Assam), for novel carbohydrases (cellulase, xylanase), for waste management using metagenomics approach. This involves identifying functional gene categories from uncultivable bacteria. The genes for these enzymes will be cloned and expressed.

Name of Project Investigator (PI) - Dr. Mukesh Saraswat, Assistant Professor-Sr. Grade

Name of Co - PI - Mr. Raju Pal (Asst. Prof.-Grade-II); Mr. Himanshu Mittal (Asst. Prof.-Grade-II); Dr. Harish Sharma (Assoc. Prof. Rajasthan)

Department - Computer Science & Engineering

Title of Project - Design and Development of a Cognitive System for Leukocytes Identification in Hematoxylin and Eosin (H&E) Stained Rat Skin Images

Funding Agency - SERB-DST

Project Grant Value - Rs. 28,18,178/-

Project Period - March 20, 2017 - March 19, 2020

Project Brief Outline - This project aims to design and develop a cognitive system for faster and reliable quantitative estimation of leukocytes in the histopathological images of Hematoxylin and Eosin stained Rat skin sections, using image processing and machine learning methods



Extramural Research Grants

Name of Project Investigator (PI) - Dr. Kamal Rawal, Assistant Professor- Sr. Grade

Name of Co - PI - Dr. Sanjay Gupta, Professor

Department - Biotechnology

Title of Project - Building integrated pipeline for cancer genome analysis: Role of mobile genetic elements in cancers

Funding Agency - Department of Biotechnology (DBT)

Project Grant Value - Rs. 29,23,800/-

Project Period - July 14, 2017 - July 13, 2020

Project Brief Outline - With the development of high-throughput sequencing technologies, one has witnessed a data explosion and systematic study of the cancer genome, including point mutations and structural alternations for a large number of cancer types, enabling the differentiation of cancer subtypes. Transposable elements (TEs), or mobile genetic elements (MGEs), are the most abundant elements in mammalian genomes and found in nearly 100 cases of diseases including cancers. Here, we propose to develop a new method (software pipeline) to determine exact position and insertion mechanism of transposable elements in cancer genomes. We will also integrate somatic mutation data with results from genome-wide characterizations experiments and clinical data elements (e.g. outcome and response to therapy).

Name of Project Investigator (PI) - Dr. Navneet Kr. Sharma, Associate Professor

Name of Co - PI - Dr. Vivek Sajal, Assoc. Prof.

Department - Physics and Materials Science and Engineering

Title of Project - Experimental investigations on surface plasmon resonance based fiber optic refractive index sensors

Funding Agency - Defence Research and Development Organisation (DRDO)

Project Grant Value - Rs. 27,71,000/-

Project Period - October 5, 2017 - October 4, 2020

Project Brief Outline - Correct measurement of refractive index of liquids is very important in all kinds of Sciences. This project aims to do the experimental studies on surface plasmon resonance based fiber optic refractive index sensors.

Extramural Research Grants

Name of Project Investigator (PI) - Dr. S. Krishna Sundari, Professor

Name of Co - PI - Dr. Sudha Srivastava, Assoc. Prof.

Department - Biotechnology

Title of Project - Application of customized PGPM based formulations for reclamation of soil permeated with Organophosphate pesticide residues

Funding Agency - Department of Biotechnology (DBT -III)

Project Grant Value - Rs. 62,10,200/-

Project Period - July 25, 2017 - July 24, 2020

Project Brief Outline - The proposal explores the soil remediation ability of chosen PGPM (Plant growth promoting Microbial) isolates for breakdown of Organophosphate pesticides and their role in arresting the transfer of these organic pollutants to the aerial/edible parts of the plant. This would be done by treating the host plant with selected PGPM / consortia of PGPM and growing them in soils challenged with select Organophosphate pesticides. An attempt to understand shift in soil microbial diversity due to PGPM inoculation will be made to determine how the PGPM inoculation is affecting the overall balance in soil microbial population, an important prerogative for any on-site remediation applications.

Name of Project Investigator (PI) - Dr. Atinderpal Kaur, Research Personal- Un-employed Grade -II)

Name of Co - PI - Dr. Shweta Dang (Assoc. Prof.)

Department - Biotechnology

Title of Project - Development of PLGA nanoparticles loaded with donepezil and memantine for Brain Drug Delivery through nasal route in Alzheimer's disease

Funding Agency - Department of Biotechnology (DBT)

Project Grant Value - Rs. 26,10,000/-

Project Period - August 28, 2017 - August 27, 2020

Project Brief Outline - Alzheimer's disease (AD) is the most common form of dementia occurring in elder people. It is a consequence of progressive neurodegeneration occurring over a period of several years. The aim of the project is to explore more than one type of drug to control AD and their formulation into a nanoparticles to effectively deliver via intranasal route. Among the alternative delivery methods, intranasal delivery has come to the forefront as an alternative to invasive delivery methods by bypassing Blood brain barrier to achieve effective concentration of drug at the target area.

Extramural Research Grants

Name of Project Investigator (PI) - Dr. Pammi Gauba, Associate Professor

Name of Co - PI - Dr. Anupam K. Mangal, Assistant Director (Pharmacognosy) AYUSH; Dr. Shruti Khanduri, Research Officer, AYUSH

Department - Biotechnology

Title of Project - Evaluation of the Heavy Metals Content in Market Samples of plant raw drugs used in Ayurveda

Funding Agency - AYUSH

Project Grant Value - Rs. 41,06,920/-

Project Period - December 27, 2017 - December 26, 2020

Project Brief Outline - To generate data on heavy/toxic metal (Pb, As, Hg, Cd) content in market samples of plant based raw drugs used in Ayurveda. Correlating the heavy metal content with location, if any, will be useful for collection of drugs. The data generated out of this study will be helpful in assessing the toxicity and will be useful for regulators. This database will also address the lacuna of unreported values so that wet lab data can be generated by further research.



Extramural Research Grants
received from government agencies



Distinguished Visitors



Prof. Michael Leslie, Department of Telecommunication, University of Florida, July 2017.



Prof. David Abramson, Director, Research Computing Centre, University of Queensland, Australia, August 2017.



Prof. Shigang Chen, Department of Computer & Information of Science & Engineering University of Florida, USA, August 2017.



Prof. Louiqa Raschid, Department of Computer Science, University of Maryland, USA, August 2017.



Prof. Wayne Fallon, Senior Lecturer, University of Western Sydney, August 2017.



Prof. Rao Vemuri, Professor Emeritus, University of California, Davis, USA, November 2017.



Prof. Robert D. Hisrich, College of Business, Kent State University, USA, November 2017.

Prof. Philip S. Yu, Department of Computer Science, University of Illinois at Chicago, USA, December 2017.



Prof. Milan Zeleny, Management Systems, Fordham University, New York, December 2017.



Fuad Aleskerov, Head of Department of Mathematics, National Research University Higher School of Economics, Moscow, Russia, December 2017.



Prof. James M. Tien, Electrical & Computer Engineering Department, University of Miami, Florida, USA, December 2017.



Prof. Richard C. Larson, Mitsui Professor, Massachusetts Institute of Technology. Institute, Cambridge, Massachusetts, USA, December 2017.



Prof. A. D. Amar, Department of Management, Stillman School of Business, Seton Hall University, USA, December 2017.



Prof. Deepak Khazanchi, College of Information Science and Technology (IS&T), University of Nebraska, Omaha, USA, December 2017.



International Conference

International Conference on Contemporary Computing (IC3 2017)
August 10-12, 2017

Organized by Department of Computer Science & Information Technology



The Tenth edition of the conference, held annually at Jaypee Institute of Information Technology (JIIT) and organized jointly by the University of Florida, Gainesville, USA and the hosts, focusses on topics of contemporary interest for computer and computational scientists and engineers. IC3-2017 brought together researchers and practitioners from academia, industry and government to deliberate upon the algorithmic, systemic, applied, and educational aspects of contemporary computing. The conference focussed on issues of contemporary interest in computing, spanning systems, Algorithms, applications, Industry & Education. For the five tracks in the conference (Systems, Algorithms, applications, Industry & Education), more than 300 papers were received. A team comprising of 150 reviewers reviewed the papers and 59 full papers were finally accepted and published. There were 17 additional papers which were accepted as short papers and presented as posters during the conference. There was one invited paper too. For 77 accepted papers, 12 authors were from USA and 3 were from SPAIN. IC3 2017 had a total of 26 sessions. There were 6 keynote talks, which were by

- ✳ Prof. David Abramson, ACM Fellow, Director, Research Computing Centre, University of Queensland, Australia
Title: Translational Computational Science: From The Lab To Practice
- ✳ Prof. Shigang Chen, IEEE Fellow, University of Florida, USA
Title: Sketching Big Network Data
- ✳ Prof. Louiqa Raschid, ACM Fellow, University of Maryland, USA
Title: Explorations of a Data Scientist: From Toxic to Therapeutic
- ✳ Prof. Jayant Haritsa, Indian Institute of Science, Bangalore, India
Title: The Latent Power of Absurd Ideas(aka Robust Query Processing)
- ✳ Prof. R.K. Shyamasundar, Fellow of IEEE and ACM, IIT Bombay, India
Title: Security Models as a Foundation for Building End-to-End Secure Systems
- ✳ Prof. Sandeep Sen, Indian Institute of Technology, Delhi, India
Title: Randomized techniques in algorithm design

International Conference

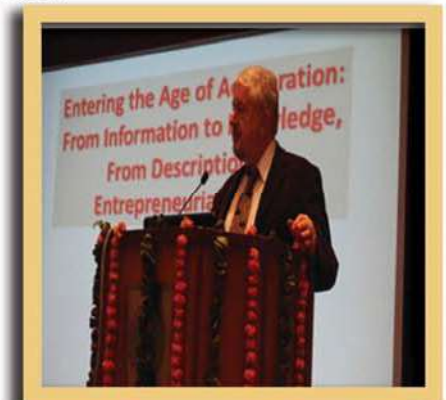
**International Conference on Information Technology and Quantitative Management
December 08-10, 2017**

Organized by Jaypee Business School



The International Conference on Information Technology and Quantitative Management (ITQM-17) focussed on providing a global forum for exchanging research findings and case studies that bridge the latest Information Technology and Quantitative Management techniques. It explored how Information Technology could be used to improve quantitative management techniques. The event also identified the management tools that could be used to reshape the development of information technology. This International Conference recognised the importance of upcoming new age business practices as well as the changes technology has brought about, in the way organizations function and become a platform for fostering discussions on contemporary issues. The conference received over 225 research papers from participants across the globe. 157 papers were finally accepted after a stringent review process and presented in the conference. Following keynote speeches were presented:

- ✱ Philip S. Yu, University of Illinois at Chicago, USA
Title: Fusion of Heterogeneous Data Sources
- ✱ Milan Zeleny, the ZET Foundation and the Thomas Bata University, USA
Title: Entering the Age of Acceleration: From Information to knowledge, From Description to Entrepreneurial Action
- ✱ Fuad Aleskerov, National Research University Higher School of Economics and Institute of Control Sciences of Russian Academy of Sciences, Moscow, Russia
Title: Power Indices in Networks and their applications
- ✱ James M. Tien, University of Miami, Florida, USA
Title: Internet of things-Real Time Decision Making and Artificial Intelligence
- ✱ Richard C. Larson, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA
Title: Queues in Service Systems



International Conference

International Conference on Recent Advances in Mathematical Sciences and its Applications

December 12-14, 2017

Organized by Department of Mathematics



The most challenging fact for researchers, scientists, technocrats, engineers and academicians in the present scenario of digitization is the application of highly sophisticated and specialized knowledge, spread across the diverse arena of human knowledge for inter disciplinary investigations. The theme of the conference successfully addressed all these challenging aspects of advancement of mathematics, including almost all active research areas in pure, applied and inter-disciplinary mathematics and their applications. There were 13 Plenary/Keynote speakers.

- * Prof. Jeffrey Hunter, Auckland University of Technology, New Zealand
Title: Mean First Passage Times in Markov Chains – How best to compute
- * Prof. M T Nair, Indian Institute of Technology, Madras, India
Title: A Discrete Regularization Method for Fredholm Integral Equations of the First Kind
- * Prof. S G Dani, UM-DAE Centre for Excellence Basic Sciences (CBS), University of Mumbai
Title: Equations, inequalities and their solutions in integers
- * Prof. Florin Diacu, University of Victoria, Canada and National University of Singapore
Title: The N-body Problem in Spaces of Constant Curvature
- * Dr. Debasis Dutta, Defence R & D Organisation, New Delhi, India
Title: Mathematical Techniques in Military Decision Making
- * Prof. G Rangarajan, Indian Institute of Science, Bangalore, India
Title: Sparse Vector Autoregressive and Network Representations of High Dimensional Data
- * Prof. S. Dharmaraja, Indian Institute of Technology, Delhi, India
Title: Challenges in Stochastic Modeling for Telecommunication Systems
- * Prof. Neela Nataraj, Indian Institute of Technology, Bombay, India
Title: Finite element methods for the linear and non-linear models for plate bending problems
- * Prof. V Ravichandran, Delhi University, Delhi, India
Title: Geometric Function Theory
- * Prof. B R Kopparty, Indiana University Northwest, Gary, USA
Title: Generalized Inverses of Matrices
- * Prof. A K Srivastava, Banaras Hindu University, Varanasi, India
Title: A Sierpinski Object Miscellany
- * Prof. Vijay Gupta, Netaji Subhash Institute of Technology, Delhi, India
Title: Certain Convergence Estimates for Linear Positive Operators
- * Prof. S K Neogy, Indian Statistical Institute, Delhi, India
Title: Optimization and Max-Plus Algebra

Workshops

Embedded Systems **July 17-18, 2017**

This workshop was organized by Department of Electronics & Communication. The purpose of this workshop was to inculcate awareness among the teachers and researchers about major upcoming and challenging areas in Embedded Systems. The program comprised of theoretical sessions, practical implementations and demonstrations by experts from industry and the host institution. The topics for the workshop included practical aspects of programming and debugging a microcontroller in real-time environment. The platforms used in the workshop were 8051 based microcontrollers and Arduino. It also included basics of FPGA based designing for beginners. Advanced topics like IP-core, Chip-Scope analyzer, Xilinx System Generator based design and analysis was also discussed. A total of 30 faculty from the college participated in the workshop. Following keynotes were delivered by eminent speakers:



1. Introduction to Embedded System by Mr. Gunjan Goyal, Application Engineer, Advanced Technology Pvt Ltd., Chandigarh.
2. Embedded System and IoT – A Broad Perspective by Mr. Ashish Bhargava, Sr. Consulting Manager, Senior Architect (R&D), UniConverge Technologies, Delhi
3. FPGA based Designing by Mr Abhinav Kumar, Trainers, TrueChip, Noida
4. HDL based Verification Concepts by Mr. Giridhar Chelluri, Design Engineer, TrueChip, Noida

Social and Professional Skills **July 24-28, 2017**



This workshop was organized by Jaypee Business School Noida. Prof Michael Leslie, University of Florida, conducted a half credit course on leadership skills – a part of the main course on Social and Professional Skills for first year students. He familiarized the students on the attributes of a leader and how this could be identified and nurtured amongst them to become leaders. A little later, he gave group assignments to students to help them assess the skills among members of the team that allows them to emerge as leaders. The students were asked to participate in the exercises and projects to identify attributes of self leadership and how that could be developed in them in order to become effective in the long-run. A total of 48 students participated in the workshop.

Workshops

ENTREPRENEURSHIP SKILLS WORKSHOP

August 01-05, 2017

A five day workshop on Entrepreneurship Skills was organised at Jaypee Business School, Noida. The workshop aimed at enhancing entrepreneurship skills and attempted at providing a platform for fostering discussion on contemporary issues of entrepreneurship. The main topics covered under the twelve sessions were Entrepreneurship & Valuation of New Ventures, Identification & Assessment of New Ventures, New Venture Challenges, Business Plan for New Ventures, Funding and Management of New Ventures. Dr. Rajnish Mishra, Head, Academics, Jaypee Business School was the keynote speaker. Following were the topics covered during the workshop:

1. Valuation of New Ventures by Mr.Vivek Agarwal, MD & CEO, Liquid e-Learning services.
2. Identification and Assessment of New Ventures by Mr. Prashant Goel, Business Manager, HCL Technologies.
3. Case Study by Mr. Vaibhav Singhal - a JBS Alumni, CEO, Crocol Innovative Technologies.
4. New Venture Challenges by Mr. Samrat Sharma - a JBS Alumni, Analyst, GoNews.



WORKSHOPS

Finance for Non-Finance Professionals August 05, 2017

This workshop was organized by Department of Humanities and Social Sciences. Finance is the life blood of any organisation. Business organisations want to maximise profits and the individuals wish to protect and multiply their savings. The knowledge of finance is important to be able to understand the functioning and performance of a business organisation. This program was formulated for the non-finance professionals, faculty members, students and anyone who was interested in understanding the basics of financial management and personal finance. The workshop aimed at providing an understanding of concepts of accounting and finance, essential to take

financial decisions at an individual level. The objective was to develop an understanding of the structure of financial statements; to calculate interest and return on investments; EMIs on loans and the value of pensions; risk return trade-off in investments, the basics of investing in stock markets; mutual funds and buying of insurance policies.



Workshops

Communication Systems and Signal Processing September 01-02, 2017



This workshop was organized by Department of Electronics & Communication. Signal processing is concerned with the representation, manipulation and transformation of signals and the information that they carry. It provides techniques for processing acquired time-series data for the purpose of efficient analysis and synthesis. Over the years, it has greatly contributed to the advancements in the areas of microchips, digital systems and computer hardware. The applications of signal processing are vast and interdisciplinary, ranging from engineering to economics and astronomy to biology. The research in many areas such as signal coding and de-noising has paved the path for advancements. Recent decade

has witnessed major revolution in communication and processing of digital media. As a consequence solutions to major problems in processing, transmission and reception have made signal processing an integral part of modern electronic systems. The aim of this program is to provide an exposure to the concepts of communication, signal processing and design of intelligent systems. This program will introduced new, innovative and interesting methods of teaching and learning subjects through a series of talks and laboratory sessions.

Future Directions for Jaypee Business School September 02, 2017

This workshop was organized by Jaypee Business School. As more and more business schools churn out graduates, ready to enter the workforce, it is time to focus on the learning experiences that will help them get the jobs they desire. It is imperative to understand the skills that employers value most, in an era marked by ubiquitous technology, innovation and a rapidly changing business environment. The objectives of the workshop were to

- Identify a futuristic orientation for JBS to strengthen the institutional positioning in the Business School arena
- Make the Business school more competitive
- Make the Business school more attractive for potential students



Workshops

Data Mining and Business Intelligence **September 04-08, 2017**



This workshop was organized by Department of Computer Science & Information Technology. The workshop covered the basics of Data Mining and Business Intelligence with emerging trends in Data mining and Collaborative Filtering techniques along with practical demonstration of clustering and classification algorithms using Weka Tool and Python. A few machine learning techniques were also introduced during the practical session.

Useful Mathematical and Statistical Software Tools for Engineering Applications **September 08-09, 2017**

This workshop was organized by Department of Mathematics. Mathematical and statistical tools play an important role in engineering sciences. Recent advances in engineering methodologies are motivating engineers to understand and learn various tools for modelling and analysis of the data, embedded in their experiments. The objective of the workshop was to demonstrate the usage of various mathematical and statistical software like MATLAB, LATEX and SPSS in engineering and industrial applications. Following keynotes were delivered by eminent speakers:

1. MATLAB: Programming Language for Engineers by Prof. Kumar Vaibhav Srivastava, Vice chair, IEEE UP section and Associate Professor in Dept. of Electrical Engineering, IIT, Kanpur.
2. Cloaking (Invisibility): A New Paradigm for Engineers by Prof. Kumar Vaibhav Srivastava, Vice chair, IEEE UP section and Associate Professor in Dept. of Electrical Engineering, IIT, Kanpur.
3. Data Analysis Using SPSS by Prof. Sumit Srivastava, Dept. of Information Technology, Manipal University, Jaipur.



Alumni Workshop **September 16, 2017**

As a part of its future journey, JBS conducted an Alumni Workshop on September 16, 2017. The first Alumni workshop was an endeavour, where JBS invited its select alumnus to speak to students on how to seek the support on the road ahead. In this workshop, alumni were asked to share their experiences after joining the corporate sector. They also shared and expressed their gratitude to JBS and spoke of how JBS helped them in improving their career path. It was an interactive workshop, involving 22 JBS Alumni and 10 JBS - faculty members.



Workshops

Scilab

October 12, 2017

This workshop was organized jointly by Fossee company at IIT, Bombay and IIIT, Noida. The aim of the workshop was that participants should be able to locate the code for the text books they use and execute it on cloud, with or without changes. It would also help to find the use of function call and to be able to set new problems for assignments, labs, quizzes, and exams.



Research Trends in Machine learning and Artificial Intelligence

November 13, 2017

This workshop was organized by Department of Computer Science & Information Technology. It familiarized the students, research scholars and faculties with the research trends in Machine learning and Artificial Intelligence. The workshop had three sessions. The first two sessions were conducted by Prof. Rao Vemuri, Professor Emeritus, University of California, Davis, USA. In the first session, the topic of his talk was "An idea to make Millions". In this session, he mainly talked about Evolution of Machine Learning, its historical and converging trends. He also discussed the various algorithms of machine learning. In the second session, he delivered a lecture on "From Perceptrons to Convolutional Neural Nets: A Personal Journey." After discussing the limitations of perceptrons, he showed the applicability of Convolution Neural Networks in Image processing. In the third session, "Doctoral Symposium on Machine Learning and Artificial Intelligence", eight research scholars of CSE department presented their work and took suggestions of Prof. Rao Vemuri.



Workshops

Certification in Equity Trading and Investment November 13-22, 2017

Jaypee Business School organised a "Certification in Equity Trading & Investment" programme in collaboration with ICICI Direct Centre for Financial Learning (ICFL) and National Institute of Securities Market (NISM). It was a 30 hour intensive training programme followed by an examination. The objectives of the program were to provide essential skills on equity trading and investment in various asset classes like equities and derivatives and to give a hands on experience in investing & trading in equity market instruments and derivatives, using virtual stock market platform.



Unboxing Today's Consumers in a Global and Digital Age November 17-18, 2017

This workshop was organized by Department of Humanities and Social Sciences. The seminar provided a platform to participants to showcase their knowledge about consumerism. It explored the role and integration of digital technologies in transforming today's global consumers. The seminar also attempted to explore linkages between competition, competition policy, private and public sector and growth. Dr. Kar, Assistant Professor, IIT Delhi was the resource person. The seminar invited research/review papers in the following tracks:

1. Contemporary Practices in Management and Customer Relationship
2. Consumers in Emerging Economies
3. Customer 2.0 -Engaged and Empowered by Technology

Computational Intelligence December 01-02, 2017

This workshop was organized by Department of Computer Science & Information Technology. Computational Intelligence is a biologically inspired tool used to solve complex real-world problems, where traditional methods generally fail. The aim of the workshop was to educate the participants about the fundamentals of these techniques by applying hands-on practice on various real-world applications. The major contents of the workshop were machine Learning with Python, deep neural network with TensorFlow; fuzzy logic and applications; biogeography-based optimization and performance Indicators for nature inspired algorithms. Dr. Jagdish Chand Bansal, Assistant Professor, South Asian University, New Delhi; Dr. Harish Sharma, Associate Professor, Rajasthan Technical University, Kota and Mr. Nakul Pritam, Senior UI Engineer, TAISTech, Noida were the eminent speakers in the workshop.



Workshops

Goods & Service Tax (GST): Concept & Application **December 09, 2017**

This workshop was organized by Department of Humanities and Social Science. The theme and objective of the workshop was an understanding of Key concepts of GST and its practical application. It explored the key areas of GST and its impact on different businesses. The workshop provided an opportunity for discussion and exchange of ideas on GST and its practical application for effective implementation. It was an opportunity to recognize the strengths and gaps in the management of GST. The workshop was delivered by Mr. Ayush Goswami, a qualified chartered accountant and a post graduate in Master of Commerce with specialization in finance & tax. The speaker, pursuing final levels of International CA (ACCA), was able to make a great impact. Presently, he is associated with Alankit Limited, as the GST Lead (Manager) and is actively involved in conducting GST seminars, return filings and financial and tax related services. For this workshop, he was assisted by his colleague Mr. Rahul Gupta.



Introduction to Machine Learning **December 16-17, 2017**

This workshop was organized by Department of Computer Science & Information Technology. The aim of the workshop was to make the participants identify real world situations where Machine Learning Techniques are suitable / more efficient than other approaches. The formulation of the real life problem as an appropriate machine learning problem was discussed. Further, it allowed them to understand the inner workings of existing machine learning techniques and the principles behind designing new machine learning techniques were also discussed.



Investment opportunities for salaried employed **December 22, 2017**

This workshop was organized by Department of Humanities and Social Science. The aim of the one day Workshop on "Investment opportunities for salaried employed" intended to teach participants the principles, practices and methods of investment management. The workshop included a series of discussions and planning steps to define the investment process, practices and methods to be used. Dr. P. K. Verma, Director, Economic Development Trust (2004 to date) & Managing Director, Alchemist Solutions Private Limited was the eminent speaker of the workshop.

Faculty Development Program

Qualitative Methods of Social Science Research, July 10-15, 2017

(Organized by Department of Humanities and Social Science)

The aim of the One Week Faculty development programme on 'Qualitative Research Methodology' was to adopt a right approach in the selection of research design, methods and an understanding of research epistemologies driving qualitative research methods. Prof. Y. P. Gupta from University of Delhi, Prof. Neelam Tandon from Jagannath International Management School and Prof. Deepak Tandon from International Management Institute, New Delhi were eminent speakers at the FDP who covered various topics like Introduction to case method teaching, Elements of relevant case selection, Multiple means of integrating case teaching, Time tested approaches for preparing and leading discussions, Successful Case Writing and Publishing.



Recent Trends in Signal Processing, July 10-15, 2017

(Organized by Department of Electronics & Communication)

The FDP provided information on recent trends and development in signal processing areas and state-of-the-art developments and emerging techniques in Communication Engineering. The areas covered were Signal Representation for Digital Signal Processing, Time and Frequency Domain Analysis and Applications, Multi-resolution Analysis, Signal Processing for Bio-medical signals, Speech Signal Processing, Image Processing and some other frontier areas

related to signal processing. A set of prominent speakers from Industry, academia (IITs and IIIT faculty) involved in latest research in Signal Processing, delivered talks on various topics.



Modelling and Simulation Tools in Electronics and Communication Engineering, July 10-15, 2017

(Organized by Department of Electronics & Communication)

When it comes to learning skills, not theory; processes instead of philosophy; listening to someone tell you about it is simply not effective. Hands-on learning or experiential learning is one of the few learning methods that can have a dramatic impact on the participant's mindset. The main objective of this one week FDP was to impart hands on training and augment the knowledge of faculty members and research scholars related to Electronics and Communication field. Mr. Ankur Sangal, Sr. Application Engineer, CoreEL Technologies, New Delhi; Mr. Lalit Saraswat, Principal Engineer, Cadence; Mr. B. Suresh and Dr. Nidhi were eminent speakers during the FDP.



Faculty Development Program

Mathematical aspects of image processing and computer vision, July 10-15, 2017

(Organized by Department of Mathematics)

In this era of information revolution images and their analysis have a great role to play in every domain of our life. Images allow us not only to perform complex tasks on a daily basis, but also enable us to communicate, transmit, process information and understand the world around us. The prime objective of the FDP was to address various challenging aspects of Image Processing and Computer Vision in the framework of Mathematics. The main emphasis was on the problems of image restoration, image segmentation, sequence analysis, image classification and their applications in Biometrics, Visual Surveillance, Medical Image Analysis, Remote Sensing, Geo Sciences, Automatic Inspection, Scientific Visualization and many more.



and lack of knowledge, that result in undefined/biased goals; wrong assumptions; incorrect metrics; unrepresentative workloads; overlooked parameters; ignored factors; inappropriate experiment design; erroneous analysis; wrong evaluation techniques and an unsystematic approach. This program primarily aimed to augment research skills of the participants in performance studies in diverse areas of computer science, specifically elaborating conventional and contemporary metrics as drivers of sustainable systems.

There were a total of 25 talks, delivered by 28 speakers, most of them being faculty members of CSE department and a few external experts, who specifically elaborated on conventional and contemporary metrics as drivers of performance in various computing areas such as parallel computing, multi-core systems, operating systems, network security and wireless networks, Trusted software systems, web-based information system, mobile and pervasive computing systems, cloud-based systems, data mining, machine learning, machine translation, big data systems, social media, image processing, graphics and animations among others.

Having industry experts as panel of speakers gave useful insights into industry practices with respect to performance metrics and optimization. Mr. Sandesh Goel, distinguished technologist at Aruba HPE, talked about performance optimization intricacies of real products. Another expert from industry, Dr. Pawan Kumar, Expert Software Consultants Ltd., spoke on "Performance Issues in Machine Translation", covering Machine Translation (MT) System, performance issues in context of MT, and Sampark MT System.



Performance Assessment of Computing Systems, July 10-15, 2017

(Organized by Department of Computer Science & Information Technology)

Performance assessment is a key step in all computing systems to compare and/or benchmark the performance of different systems and processes, so that the highest performance with respect to the desired goals can be attained at a given cost. Performance assessment methods use analytical modelling, simulation and empirical measurement techniques. Engineering systems' performance assessment related claims often get weakened because of oversight, misconceptions

Faculty Development Program

Bio-entrepreneurship, July 10-15, 2017

(Organized by Department of Biotechnology)

The FDP was aimed at strengthening faculty outlook on various aspects of Bio-Entrepreneurship – establishment, financial aspects, opportunities and quality assurance. It benefitted faculty through a series of lectures, workshop and interactive sessions on varied facets of entrepreneurship involved in the Biotechnology sector. Dr. Subhash Chand, Former Professor & Head, Biochemical Engineering & Biotechnology, I.I.T. Delhi; Dr. Subhash Chand; Dr. Sanjeev Mittal, Professor and Dean, Guru Gobind Singh Indraprastha University, Delhi; Dr. H. N Singh, Former Professor, Dr. A.P.J Abdul Kalam Technical University; Mr. Hardik Ravat from iSaptarshi Technologies; Mr. Abhishek Tyagi, Edge Consultancies and Mr. Saneh Gupta & Ms. Agrawal from Kissan Mushrooms were the speakers at the FDP.



Recent Trends in Engineering Physics, July 10-15, 2017

(Organized by Department of Physics and Materials Science & Engineering)

The objective of the FDP was to provide a platform for interaction among faculty, scientists and researchers to share ideas, thoughts and scientific finding in various areas of engineering Physics, including condensed matter and material

physics, laser and plasma physics, quantum physics and many other topics. This FDP was fourth in a series of annual academic faculty development program in the PMSE department. There is a great relation between physics and engineering and most technological developments and their advancements have been the result of joint efforts of physicists and engineers. Therefore, the subject physics is very important and indispensable for engineers. The study of engineering physics emphasises the application of basic principles of physics to engineer the properties and design of equipments, which include electronic and electromechanical systems for use in measurements, communications and data acquisition etc.

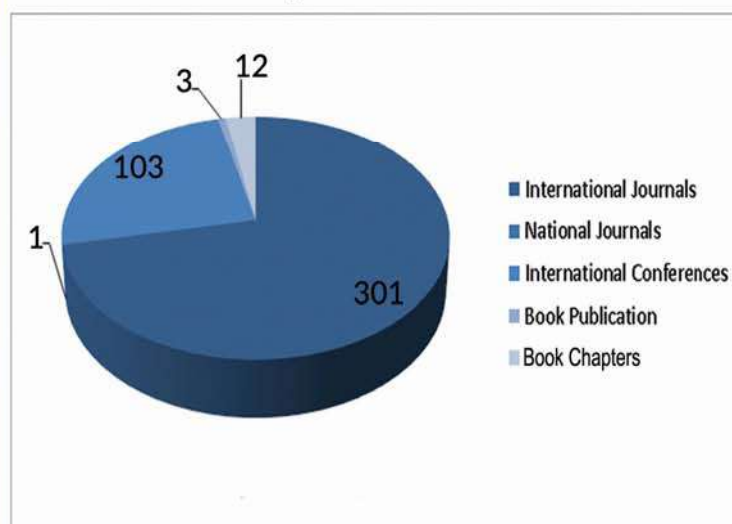
Prof. Vinay Gupta, Department of Physics and Astrophysics, Delhi University, New Delhi spoke on Functional materials and their applications such as MEMS and thin films based sensors for space applications. Dr. Gerhard W. Dueck, University of New Brunswick, Canada discussed Graph Based Template Matching for Reversible Logic Synthesis. Dr V. P. S. Awana, principal scientist, NPL, New Delhi delivered a lecture on Superconductivity: From low TC to high TC& Mystery continues and Mr. Mohit Gautam, Toshniwal Instruments, New Delhi delivered a lecture on Introduction of Sophisticated Instruments in the Field of Material Science. There were 39 participants who attended this FDP.



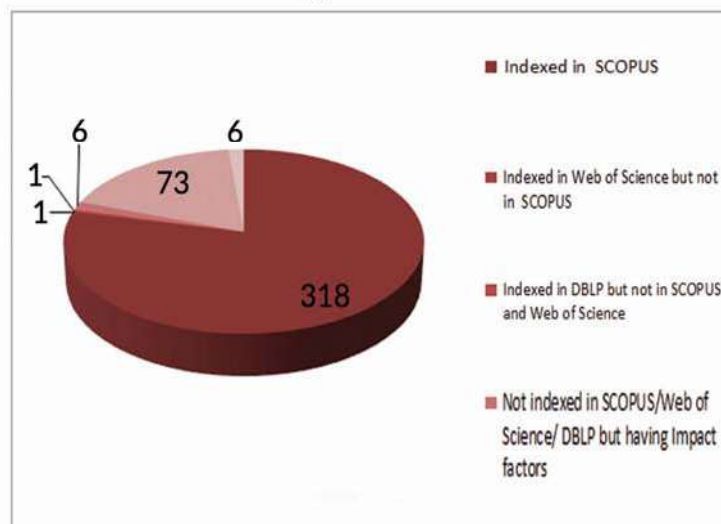
Publications

From January - December, 2017

Summary of Total Publications



Indexing of Publications



Important Journals in which Research Publications appeared

- ✿ Acoustical Physics
- ✿ Annalen der Physik
- ✿ Applied Surface Science
- ✿ Ceramics International
- ✿ Chinese Journal of Physics
- ✿ Computer and Security
- ✿ Current Microbiology
- ✿ Frequenz
- ✿ IEEE Systems Journal
- ✿ International Journal of Electronics
- ✿ International Journal of Electronics and Communications
- ✿ International Journal of Electronics and Telecommunications
- ✿ International Journal of Pure and Applied Mathematics
- ✿ Journal of Alloys and Compounds
- ✿ Journal of Applied Spectroscopy
- ✿ Journal of Astrophysics and Astronomy
- ✿ Journal of Magnetism and Magnetic Materials

- ✿ Journal of Physics Condensed Matter
- ✿ Journal of Systems and Software
- ✿ Mathematica Bohemica
- ✿ Mathematica Slovaca
- ✿ Molecular Ecology Resources
- ✿ Optik
- ✿ Procedia Computer Science
- ✿ Progress in Electromagnetic Research
- ✿ Physica A
- ✿ Physical Chemistry Chemical Physics
- ✿ Physical Review B
- ✿ Physics Letters A
- ✿ Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
- ✿ Telecommunication Systems
- ✿ Vibrational Spectroscopy
- ✿ Wireless Personal Communications

Student's Placements

For the year 2018 Graduating Batch, inspite of the IT slowdown, JIIT T&P has ensured that students get ample opportunities and continue to get the best of companies visiting the Campus. Till now, over 90 companies have visited JIIT for B. Tech students, and this number is expected to increase in the coming days. JIITians have had, and will continue to have plenty of opportunities.

Branch	Total Participating Students	Total Offers	% of Total Offers	Absolute Offers	% of Absolute Offers
CSE	433	376	87 %	349	81%
ECE	269	151	56%	149	55%
IT	47	38	81 %	37	79%
BT	39	17	44 %	17	44%
Total	788	582	74%	552	70%

Note : Placement is continuing for Batch 2018

Students E Annapoorna, Dual degree CSE, and Shruti Pachaury, B.Tech CSE, made JIIT proud by securing an offer of 39 Lac by Adobe

- ✿ 4 Students got selected in AMAZON – Package : Rs 27.00 Lacs
- ✿ 12 Students got selected in AMAZON WEB SERVICES - Package : Rs 16.00 Lacs
- ✿ Highest Salary – 39.12 Lacs by Adobe
- ✿ 11 Cos. with CTC between 10 & 27 Lacs
- ✿ 37 Cos. with CTC between 5 & 10 Lacs
- ✿ 45 Cos. with CTC between 3 & 5 Lacs

Interface between Industry and Academia

1. The T&P cell of JIIT has signed an MOU with Ericsson India Global Services, whereby Ericsson India facilitates JIIT in imparting training in the areas of Ericsson's Radio Access Network (RAN) Portfolio Specific Cutting Edge Telecom Domains, that is providing a platform to start with. This training prepares the students in particular to meet industry requirements with a certain level of skill to deliver quality services in this area of the Industry. Training imparted to the students of JIIT, is as per the business model designed.

2. JIIT has a Career Connect program. This is a part of Ericsson India Global Services, which trains students at JIIT, to support Digital India and Skill India initiatives. The program is delivered to a selected batch of B.Tech third year (ECE) students. The program conducts theoretical instructor-led lessons for about 20 hours with a focus on Telecom fundamentals, overview of next generation networks, IP-fication/ Everything over IP and Emerging technologies. This gives an Industry relevant exposure to our students, who are then better equipped to face such challenges in the corporate world.

3. T&P, JIIT has a tacit understanding with Wipro Technologies in conducting the TalentNext program. A unique initiative, framed towards strengthening JIIT-WIPRO relationship, aims at overall enhancement in corporate readiness of its students.

TalentNext focuses on building deeper engagement between JIIT and Wipro, by providing 'digital-ready' skills to the college faculty through Wipro's Project Based Learning framework, and ensuring facilitation of digital skills amongst students.

This program focuses on enhancing the abilities of the faculty to teach programming languages by creating a pool of Wipro Certified Faculty (WCF). The WCF of JIIT train their students in digital skills, using a structured academic intervention and Wipro's project based learning approach. The students go through stipulated hours of rigorous learning process and take assessments.

This program is extremely beneficial in scaling up the skills of students and enables them to progress better in their academic career. The first batch of students will register in July 2018.

4. T&P, JIIT is in talks with other reputed Companies to conduct similar programs so that our students get an exposure to industry relevant practices.

5. Companies and professional career consultants are invited to the campus as a part of industry- instituted-interface program to strengthen the efforts of our pre-placement activities.



Industry/Academia Dialogue

Following expert lectures were delivered by people from industry and academia at IIIT Noida:

“International opportunities for future academic growth”, Prof. Wayne Fallon, Senior Lecturer, University of Western Sydney, Sydney, August 18, 2017.

“Nanoscience, Nanofabrication and Organic-Nano Electronics: A Golden Opportunity for the Electronic Device Industries”, Prof. Dilip K.Maiti, FRSC Department of Chemistry, University of Calcutta, India, August 23, 2017.

“Multimedia Technology - An Engineer's Point of View”, Mr. Vishal Chandra Gupta, Technical Manager, HCL Technologies, India, September 11, 2017.

“Essay Writing and Improving Vocabulary”, Mr. Ankur Jain, Chief Knowledge Expert, Triumphant Institute of Management Education Pvt Ltd, India, September 13, 2017.

“Quantum Gates and Quantum Dot Cellular Automata: Nano approach for future GREEN COMPUTING”, Prof. Atal Chaudhuri, Jadavpur University, India, October 03, 2017.

“Commodity markets in India”, Ms. Bhaavna Joshi Menon, Head, Training and Education at National Commodity & Derivative Exchange Limited, India, October 09, 2017.

“MAX-01: First Step Towards Open Source ROBOTICS”, Mr. Vishal Chandra Gupta, Technical Manager, HCL Technologies, India, October 12, 2017.

“An Analysis of Global Financial Crisis”, Prof. K.V. Bhanu Murthy, Vice-Chairman for Centre for e-Learning & Teaching Learning Centre, SGTB Khalsa College, Delhi University, India, November 08, 2017.

“Customer Relationship Management through digital medium”, Mr. Kunal Kishore, head, Digital operations of International Initiative for Impact evaluation (3ie), India, November 10, 2017.

“Personal and Interpersonal Effectiveness”, Mona Singh, a Certified Power Coach, Master Practitioner of NLP and Practitioner of Emotional Intelligence, India, November 14, 2017.

“Innovation and startups”, Prof. Robert D. Hisrich, College of Business, Kent State University, USA, November 17, 2017.

“Optical imaging and Aberrations”, Prof. Virendra N. Mahajan, Scientist in the Aerospace Corporation, El Sengundo, CA USA, November 18, 2017.

“Employability Skills and Industry Expectations”, Mr. Mukesh Bindal, Vice President Engineering, R Systems International Ltd., India, November 21, 2017.

“Remote Photonic Bio-Sensing and Super Resolved Imaging”, Prof. Zeev Zalevsky, Senior professor, Faculty of Engineering and the Nanotechnology Centre, Bar-Ilan University 52900 Ramat-Gan Israel, November 22, 2017.

“Gut microbiota in Cardiovascular Diseases”, Prof. Suresh C. Tyagi, Professor and Vice Chair For Research, Department of Physiology, Stoghill Endowed Chair in Biomedical Sciences, University of Louisville School of Medicine, Louisville, Kentucky, USA, November 24, 2017.

“Quantum nonlocality and device independent technologies”, Dr. Manik Banik, Post-Doctoral Fellow, Institute of Mathematical Sciences, Chennai, India, December 12, 2017.

Laurels Won by IIIT Faculty & Alumni

Dr Neha Atale

Received Oral Presentation award at ICLA 2017
September 8-9, 2017

Mr. Abhay Kumar

Received Best Paper Award at IEEE UPCON 2017
October 26-28, 2017



Dr. Parul Puri

Received Best Ph.D. Thesis Award at IEEE UPCON 2017
October 28, 2017

Dr. Parul Puri

Received ITS Award at PIMRC
October 8-13, 2017

Dr. Vibha Rani

Received Education ExpoTV CRS 5th Academic brilliance
Awards-2017 for Young faculty on February 12, 2017



ALUMNI

Dr. Pratika Dayal

Presently a Rosalind Franklin fellow & Assistant Professor of Astrophysics, Kapteyn Institute, Groningen, Netherlands. She has received this year's Young scientist medal awarded by the International Union of Pure & Applied Physics (IUAP) Commission.

Laurels Won by IIIT Faculty

PROF. ANIRBAN PATHAK

**Received National award - Shri Om Prakash Bhasin Award in
Electronics and Information Technology
for the year 2017**

FLAG BEARERS



Professor Anirban Pathak of PMSE Department has been awarded Shri Om Prakash Bhasin Award for the year 2017 in the field of Electronics and Information Technology for his outstanding works on quantum communication and quantum information technology. This award, which is one of the most prestigious awards in Indian science is presented by Om Prakash Bhasin Foundation for the scientific works done in India. This annual award was instituted in 1983. Each year, it is presented to 5 distinguished scientists in 5 different fields- (i) Agriculture and allied sciences, (ii) Biotechnology, (iii) Electronics and Information Technology, (iv) Engineering including Energy and Aerospace, and (v) Health and Medical Sciences. Many legends of Indian science have received this award earlier. The list of distinguished awardees includes some of the finest scientists and technologists of India, such as: Prof. M. G. K. Menon, Dr. A. P. J. Abdul Kalam, Dr. Sam Pitroda, Prof. Raja Ramanna, Prof. M. S. Swaminathan. We are extremely happy that a IIITian is now in this extremely prestigious list.

Laurels Won by Students

Rahul Saxena

PhD Scholar, Biotech Department

Won 1st prize for poster presented at IIT Roorkee
December 6-8, 2017

Ms. Rashi Rajput,

M.Tech(D.D), Biotech Department

Awarded with iRTP and placed at International
Higher Degree research at Macquarie University
October 28, 2017

Aditi Jain

PhD Scholar, Biotech Department

Won Elizabeth Roth Travel Award at IIACS ES 2017
September 28-30, 2017

Aditi Jain

PhD Scholar, Biotech Department

Gave a radio talk in All India Radio, PrasarBharati
in October 2017

Kopal Singhal

PhD Scholar, Biotech Department

Received Junior Level Fellowship by
CSIR

Ms. Ramneek Kaur

M.Tech(D.D), Biotech Department

Awarded WSUPR and got placed as an International Higher
Degree Research Scholar at Western Sydney University

Pankaj Garg ,Kanishk Mahor Astitva Shukla,Shivam Singh

Won 2nd position in Overwatch &
3rd position in Roll Cage - 3rd Position
at the Techfest held at IIT Bombay
December 29 - 31, 2017

Kishore Thapliyal

Received Junior Level Fellowship by
CSIR

Hub Activities

Google Developers Group (GDG)

Google Developers group conducted an Orientation session, Google Greetings on August 24, 2017, which approximately 300+ students attended. A series of workshop from September 12-14, September 26-27 and October 10-12, 2017, a series of workshop sessions for web development were held. On September 22, 2017 Project Mentorship session was held for upcoming projects for the second year students. An introductory session on Google Applied CS with Android was held to train newbies into android interface. A website designing competition was held at IIIT-Sec 128, which was a team event in which 150+ participants took part and won amazing prizes/awards. "DevFest '17, the premier developer festival of GDG (Google Developer Group) IIIT NOIDA" was organized on November 11-12, in which talks were given by Diksha Deo, Co-Founder and Director at Ckho Founder and CEO at Incubsence and by Sanya Khurana, a software developer at Adobe System, India. Along with these, a hackathon was conducted in which more than 200 students took part. During November 6-8, 2017 Web Dev 128.17.3 session was held to brief 80+ students on website development. Other events held by GDG group were Googled about Google?, Pandora Box, Machine Learning, Capture the flag to name a few.



Ribose - The Biotechnology Technical Hub

RIBOSE, the Technical Hub of Biotechnology Department has always worked towards exploring and promoting new facets in the growing area of Biotechnology and the same motivation was seen in 2017 also. The hub organized a Quiz competition in August 2017. A dedicated team of student volunteers worked with great enthusiasm, day and night and organized the event, 'Invisible India' on August 23, 2017 with the support of JYC. The event was organized with a pious intention to celebrate the 71st year of Indian independence and to remember all the good deeds of our freedom fighters. The competition saw a high footfall of student participants and attendees. The event was a 'clash of brain's' for the participants while it was a journey into the history of the country for the attendees. In order to foster the consistent efforts of the Department to enhance alumni-student and student industry interaction, RIBOSE organized 'Lighting Idea 2.0' on November 11, 2017. Keeping in view, the growing market demand of the Biotechnology graduates and post graduates in the core area of Market Analysis and Research, the alumni of the Department, associated with such areas were invited. The event was attended by 70+ students of the Department along with faculty members. All the speakers highlighted various strategic approaches they use to excel in the core area of 'Market Analysis and Research'. They also updated the students about the job opportunities and future prospects.

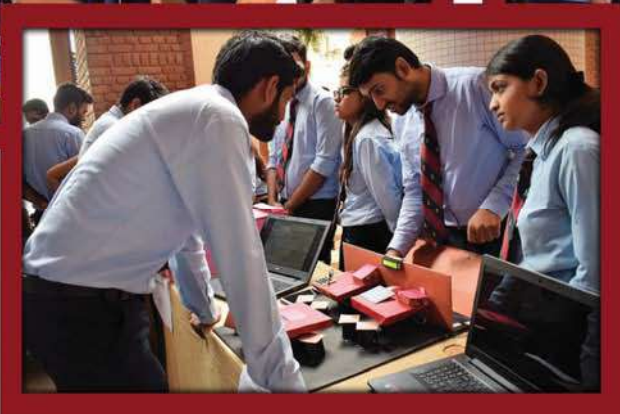
MULTIMEDIA AND GAME DEVELOPMENT HUB

The Multimedia and Game development Hub organized various orientation programs for new students on September 8, 25, 26, 2017. The hub also organized workshops in 4 parts to impart skills for game development including programming on October (8), November (9), December (12 & 23) in the year 2017. The purpose of these workshops was to facilitate the learning of the students in the Game Development process and other tasks including Photoshop of the game player and obstacle designing. These events allowed students to learn and develop games for the competition to be held during the institute festival, Impressions.



Microcontroller based Systems and Robotics Hub (μCR)

Microcontroller based Systems and Robotics Hub (μCR) is the Robotics hub of IIIT. The hub develops and promotes the interest of students in both manual and autonomous robotics. Students of this hub have been performing exceedingly well not only in college events but also in the events organized by IITs, NITs and DTU. The hub organizes various events and workshops in the Institute for promoting the interest of students. This year manual as well as autonomous events were organized in the Institute's annual fest IMPRESSIONS and in the technical fest CYBER SHRISTI. The third and fourth year students conduct workshops for second and first year students in their specialized fields and the cycle continues. In this process, students learn new things every day. Some of the events and workshops organized are: Project Exhibition on July 28, 2017, where various projects made by the hub members were displayed. An orientation session for the first year students was organized on July 28, 2017 in which the new students were introduced to the hub and its team members. They also were told about the various activities of the hub. More than 150 students attended the session. The students also presented autonomous projects in the project exhibition of IC3 conference from August 10 to August 12, 2017. More than 26 teams participated and displayed various projects in the fields of wireless and wired robotics. The hub organized Wireless communication and introduction to IOT workshop from August 17 to August 25, 2017 where there was a participation of more than 300 students. Students were taught the basics of NRF, Bluetooth and ESP8266. Another feature of the organized Manual Workshop, held from September 14, 2017 to September 23 was that more than 350 students participated and learnt how to make a manual robot. Manual Event – Desuraze on October 5-6, 2017 organized at OAT, reistered participation of around 40 teams comprising a total of approx 160 students. The competition was divided into two rounds. The hub has also organized Raspberry Pi on November 16, 2017 in which 20 teams including 80 students participated. They were introduced to programming Raspberry Pi to make several autonomous projects.



Radiance - The Fashion Society

RADIANCE celebrated Ebullience 2017 with pomp and gaiety. RADIANCE presented the Mr and Ms Ebullience 2017 stage event during the fresher's event. This event makes the fresher participants learn to present themselves onstage with self confidence and dignity. This opens up future prospects for social and interpersonal skills and allows the students to do something good for society.



Crescendo - The Music Hub

An orientation session was organised by the music hub, "Crescendo" on August 9, 2017. An introductory karaoke session was conducted for the fresher's, followed by an informal interaction between the core hub members and the freshers. The ensuing performance was a tribute honouring late LinkinPark frontman and Chester Bennington. An event for the fresher's party was organised on September 1, 2017, which also saw performances by the first year talent hunt winners and the hub members. A JAM SESSION was organised on September 19, 2017 that saw a gathering of all music enthusiasts across all branches and years. The hub created a WhatsApp group of the students who attended the event to facilitate a discussion in planning future activities of the hub. UNPLUGGED, the main event of the hub was held on November 17, 2017. This live musical session included all musical performances, staging 26 vocalists and 16 instrumentalists. The literary event, JOUST '17 held on October 7, 2017, saw two remarkable performances by music hub members.



EXPRESSIONS - The Painting Hub



Expressions -The painting hub of JIIT organized an event MYRIAD OF COLOURS on September 21, 2017. It was a 2 round competition which was open for everyone. Participants submitted their artworks on the theme 'Digital India'. In the first round, a live art gallery was put up at the old LRC atrium which displayed artworks of the participants. The creativity of the participants at the moment of hour was tested in the second round. Second round was on the spot competition which was held on September 22, 2017, where the participants were given the theme there and then only and they had to paint on the spot. The theme for the second round was 'SWACHH BHARAT'.



Jhankaar - The Dance Hub

Jhankaar, the dance hub of IIIT conducts its orientation at the beginning of the odd semester with an introduction of all its genres of western, Indian and Bhangra dance. The student coordinators of the dance troupes exhibit an enchanting aura of their talents and showcase their abilities, hard work and devotion in each performance with an aspiration to raise the hub to a level which is matchless and unsurpassed. Students mesmerized by the performances showed up with great enthusiasm and vigor; bringing in new talents, techniques excellence each. The efforts and unblemished arrangements made by the managing team, rising above small glitches, made the journey from the orientation to the concluding event a grand success. 'Jhankaar- the dance hub of IIIT', comprises of three groups representing different dance forms namely: 'Music Made Visible' for hip hop and freestyle, 'Khappis' the Bhangra troupe and 'Nrityang' the classical troupe. All the groups held separate auditions to find fresh talent among the first year students. The auditions took place at OAT where interested candidates performed on a song of their choice to showcase' their talent. They were judged by the coordinators and other members of the hub and selected accordingly. Jhankaar, in association with IIIT Youth Club, organized one of the most long-awaited events of IIIT, the Garba Night, giving one an opportunity to wholeheartedly witness and experience. A night celebrating the rich ethnic diversity of our nation. At Jhankaar, it is ensured that students rejuvenate from the stress of examinations and vivas by being a part of memorable dance performances, food and a lot of fun!



PageTurner Society - The Book Hub

The PageTurner Society is the book hub of JIIT. The members enthusiastically conducted a Book exchange event on November 13, 2017. Students brought books of a myriad of genres to exchange with another book. A list was prepared, noting the details of the name of the book, the lender, the borrower and their respective contact details - to assure the lenders that their books were safe. The event concluded with all the participants sharing anecdotes about their favorite books, the one's they'd brought to exchange and discussing what had made them select the book they did. Some of the books that the participants brought included Harry Potter and the Cursed Child, Palace of Illusions, The Alchemist, Kiterunner, Inferno, Angels and Demons.



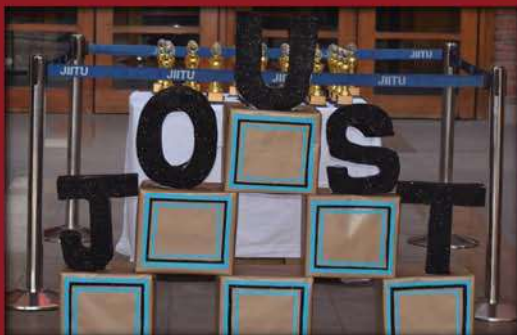
Adwitya

'Adwitya', hub of Jaypee Institute of Information Technology, Noida aims to serve the specially-abled persons of the society. Members of 'Adwitya' provide support in imparting basic skills in computer education, maths, creative skills to specially-abled persons. On October 9, 2017, an event was organized promoting the fact that everybody possesses ability and that everybody matters, it's just about acknowledging it. At Adwitya, they are trying to create a society that develops a rapport with and encourages the specially abled. Adwitya organized an event named: "Innovative ideas for making a better world for the specially-abled" in which approximately 30 students participated. On November 9, 2017 another event was organized that addressed the theme of "Disability only becomes a tragedy when society fails to provide the things needed to lead a good daily life." The members of Adwitya welcomed everybody with an open heart for the event, 'Empowerment of the specially abled', which provided a platform to pen down ideas on how to emancipate the disabled. Approximately 400 students, faculty and non-teaching staff participated in the event and jotted down ideas and made the event a grand success.

Parola - The Literary Hub

'The art of communication is the language of leadership.' – James Humes

Parola-The Literary Hub of IIIT works to ensure that people understand the importance of putting their thoughts and ideas together and then expressing them effectively. The hub aims at encouraging students to employ their research and oratory skills and also engage in discussions and negotiations in order to come up with viable solutions. The goal of the hub is to nurture young leaders and provide them with a platform to raise their voice. One of its benchmark events, The Joust was a spectacular success this year. What started as a small and little known event, is now regarded as the Literary Fest of IIIT, witnessing a participation of around 300 plus delegates from across Delhi- NCR. The third edition saw huge enthusiasm among the participants which involved meticulous planning and unmatched managerial skills. Bringing various literary activities under one roof, The Joust was a grand success, out of a total of seven events, where three committees were simulated of Lok Sabha, The White House Sit Room and UP Stakeholders' Meet along with the conventional debate-The Verbal Crusade. Apart from these debating and oratory events; Cynosure- A bilingual Slam Poetry event, Quotidian - The Journalism event and Reseau- the Photography event were also a part of the fest. The event not only brought together some of the most hard-working and talented individuals but also provides a perfect platform for students to express their ideas and beliefs. Another grand event of the hub is, the 'Jaypee Model United Nations', which is not just an ordinary conference, but a legacy that has been established in IIIT over the past few years. A total of 5 committees with intriguing agendas were simulated in JMUN 2018, which included the United Nations General Assembly, Human Rights Council, Council of Europe, Arab League and Historic Lok Sabha. JMUN has constantly evolved and grown and now receives participation from various colleges across India. With a legacy of seven years behind it, the eight edition of JMUN 2018 raised the bar a notch higher with its tremendously experienced executive board and an extremely high quality debate. The team worked tirelessly to provide first timers as well as experienced debaters a great experience, proving its mettle as one of the best MUNs in the Delhi circuit. Parola has set a benchmark for itself and has proven true to its aim of enhancing the debating, as well as creative skills of its members. All in all, Parola continues to be a class apart and is and will always be a name to be reckoned with!



Thespian Circle - The Drama Hub

THESPIAN CIRCLE AUDITIONS were held on September 14-15, 2017. The two-day auditions were conducted to select the contestants who possessed exceptional skills in acting, script writing, videography, creative management and in playing a variety of instruments. On the first day, an acting round was conducted and on the second day, candidates of various departments were interviewed. The two-day process ensured that only dedicated and skilled artists became a part of the prestigious hub. The hub ORIENTATION on (August 3, 2017) - is an interactive session held to showcase its talent to the newbies of the Institute. The event included various varieties of short plays ranging from monoacts, duets and trio acts, covering a wide range of genres such as comedy, horror, tragedy and autobiography. The event stole the heart of its audience. FRESHER'S PLAY PANDAV KA TANDAV (September 1, 2017) was, 'combination of various comedy play like, FIR, Khichdi and Golmaal. The play took the concept of the five Pandava brother married to Draupadi in the epic Mahabharata, mapped onto a modern scenario of college life and police station. The play was a plethora of interesting characters, apt music and punchy dialogues. The play made the evening worth while and left a lasting impression on the new students of the Institute. Northcap University Street Play Performance: It was beautiful day when the thespian circle performed "Dastak" in the Northcap university, situated in Gurugram. On the lush green grass of the university, with great enthusiasm and with audience's support, the first outing of the thespian circle in was a great success. IIT Delhi Learning by Seeing Thespian Circle decided to explore more in street plays in the area of the IIT DELHI fest, where they realized that observation is also a key to great learning. The Literary Seminar Play, held on November 11, 2017, was an intellectual play, depicting the hypocrisy of Indian Society and Politics, performed on the occasion of Gandhi Jayanti. The play was full of emotional and funny moments. Workshops were conducted after the first round of auditions and the new aspirants of the thespian circle were given a feel of the way the theatre society works.



It's Our Earth (IOE)

IOE conducted a successful event, ROLL CAMERA ACTION on August 6, 2017 to create social awareness among the young students. The participants had to make Dubsmash, musical videos, boomerang, memes related to the social topics given to them. Winners were awarded with certificates and exciting prizes. On October 11, 2017 an event named CRACKER FREE DIWALI was organized in which participation was solicited from the Institute faculty and students. The participants shared their views on social negativities and their impact on our society. Students also left their hand impressions on a decorated white sheet, showing their support for a cracker free and pollution free Diwali. On November 19, 2017 a SLUM VISIT was organized with the objective of inclusive growth. The organizers visited the slums near Sector 62 Noida, propagating the importance of hygiene and health. A sports meet was organized for the children of the slum and winners were awarded with food as prizes. All participating children were given healthy snacks emphasizing nutrition and health. An event named, THE SCRIBBLED STORIES was also organized, which focused on bringing the attention of people, to various social and environmental issues that plague our society. The students were given a topic, which they had to draw on whiteboard and their friends had to guess what the topic was. The topics were fun and interesting with a social twist, addressing the issues of child abuse, human trafficking and other contemporary problems.



Kalakriti

Kalakriti organized Children's day event, 'Let young minds speak!' on the occasion of Children's Day. The participants were encouraged to submit their sketch or painting along with a suitable slogan on themes like Importance of education for children, Child Labour, Effect of media on children, Peer group- Bane or Boon. The shortlisted entries were showcased in a gallery that was set up outside Annapurna on November 14, 2017. Kalakriti organized their first event, 'Bric-a-Brac' in the annual fest, IMPRESSIONS, which was a team event comprising of 2-4 members in each team. The event was executed by following steps and a total of 2 hrs time was given to each team to showcase their talent. Kalakriti organized their second event, 'Conventional Rangoli' in the annual fest, IMPRESSIONS, which was also, a team event comprising of 1-4 members in each team. Teams were provided with rangoli colours, which they had to use to make a traditional rangoli or a rangoli based on Impression's theme. Teams were judged on various parameters like creativity, innovativeness, and relativity to the theme of Cirque de Mask.



Club Activities at Jaypee Business School

Business Education is not merely about rote learning. Business is a money making machine. Of greater significance to the corporate is not what the student is; but, what he/she can do for the recruiting organisation. Companies are looking for well-rounded individuals with a good personality and significant knowledge to perform allocated responsibilities on the job. Keeping this in view, JBS focuses on developing corporate ready individuals who are socially sensitive, yet ready to deliver their best, in their workplaces. JBS has launched a distinct set of club activities, which cater to a wide range of individual interests and job requirements in the industry. These include the Business Live Club, the Corporate Presentations club, the Business Quiz Club, Corporato, the Money Matters Club and the Aptitude and Analytical Skills Club. These clubs serve the dual purpose of capability building and individual invigoration.



EBULLIENCE

Hosted by The IIIT Youth Club, Ebullience is an annual program organized for the newly enrolled students of Jaypee Institute of Information Technology, giving them a chance to showcase their talents in more ways than one. Ebullience has 6 major events encompassed under its umbrella. The Music Society performance give an entertaining start to Ebullience. It followed by the performance of the Dramatics Society, known for its members exuberant and lively personality. After that, the wildly infamous society of IIIT, VamUnique known for their popularity among all colleges across Delhi/NCR, performs for the students. The Bhangra Society is next in line giving a rather exuberant performance, each time they come-on stage. They never fail to impress. Finally, the most anticipated and inarguably the most popular round of Ebullience is the Ramp Walk, where the gentlemen and ladies display their exceptional talent on the ramp. It consists of 2 rounds, Ethnic and Western taking place at the beginning and at the end respectively.



TEDx JIIT

TEDxJIIT is an event exclusively organized for the students of Jaypee Institute of Information Technology to gather a crowd having similar ideas at a place to boost learning. The environment built is innovative and passionate and it works to leverage the power of brilliant ideas and let them be spread as widely because ideas reshape minds and change the way one acts. It is the most basic form of 'effective' communication using a medium of deep conversation and connection with Scientists, Artists, Technologists and Thinkers. It brings forth stories worth listening to; stories that mobilize people, stories that provide food for thought and stories that have altered the very fabric of the society.



Samar Singla - CEO & Founder of Jugnoo

Varun Rajput - Founder of Antariksh Band



Durga Shakti Nagpal - IAS Officer

Harsh Goela - Founder and CEO of Goela School of Finance



Harsh Beniwal - Youtuber & Viner

Ryan Martyr - Dancer



Rakshit Tandon - Indian Computer Security Expert

Navin Gulia - Author, Adventurer & Social Worker



Ajoy Ghatak - Indian Physicist

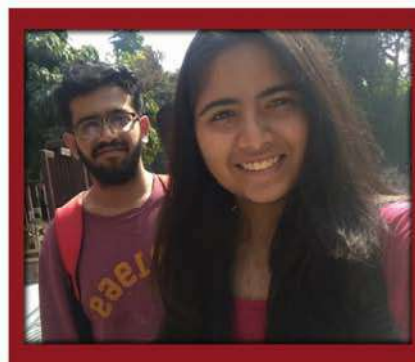
RJ Nitin Khurafati - RJ



Social Initiatives

Ashwin Maharaj Foundation

Music therapy—the use of music to deal with physical, physiological, psychological issues and/or social issues — currently plays an accepted role in modern medication, for youngsters as well as adults. The Ashwin Maharaj Foundation is a social venture which focusses on Stem Cell Transplant Awareness, Patient Rehabilitation, Legal Awareness. They also organise music therapy sessions at AIIMS Delhi for the individuals trying to defuse the ticking time bomb of medical ailment that we call Cancer. Students from JIIT, Sec- 62 Noida namely Saankhya Parekh, Sharanya Sinha, Riya Saini and Parth Taneja went to AIIMS as volunteers, representing the NGO to help the cancer patients by providing them with music therapy sessions. They describe their experience as highly rejuvenating and joyous. They were glad to have been able to put a smile on the faces of those in need.



Light de Literacy (LDL)

If you are blessed with intelligence and empowered with education- it is your responsibility to change the world” as said by Dr. APJ Abdul Kalam, Light De Literacy – an NGO run by a group of socially active, determined and educated youth of the Institute aims to realise Dr. Kalam’s vision by educating underprivileged children. All the members of the organisation with institute were encouraged by the efforts of Ashutosh Sharma and Mahendra Pratap Singh who inspired others (close to 1500) for their commitment towards the welfare of impoverished children. LDL began when some college going students started teaching around 30 children at a slum in Pratap vihar and around 20 children in Samrat chowk area on a daily basis. Currently LDL’s members teach around 800 to 1000 children daily at 20 different locations in Ghaziabad, Noida, Greater Noida, Ajmer, Gorakhpur, Lucknow, Jamshedpur, New Delhi & Bahraich. Till now 47 kids residing in slums have been admitted to schools and their monetary requirements are being fulfilled by LDL. The NGO has four literacy camps under their care, where they prepare kids for their bright future. Along with studies they also aim at inculcating good habits and manners in them so that when they go to schools they fit in and don’t feel left out.



Jaypee Literary Students' Seminar

The Department of Humanities and Social Sciences, Jaypee Institute of Information Technology, Noida organized a two-day Jaypee Literary Students' Seminar on November 10-11, 2017 on 'Contemporary Literature: Changes & Challenges'. This event was co-ordinated by Dr. Monali Bhattacharya, from Sector 62 Campus and Dr Ekta Srivastava from Sector 128 Campus with Prof. Alka Sharma, Dean, Humanities & Social Sciences being its convener. It witnessed a participation of 100 students from both the campuses. The seminar provided the students with a platform to come and explore their research potential, channelize their thoughts into proper form of expression and fight all forms of fright through paper writing and presentation. This seminar was the second edition, first one being organised in November 11-12, 2016. The themes for the seminar were:

Emergence of Fourth World Literature
Re-inventing Myths: Revisiting Classics
Literature & Adaptation
Rise of New Genres

The two day event comprised of one Plenary Session and two Technical Sessions. It ended with Poetry Reading Session and short plays in the segment of creative expression. The first plenary speaker, Dr. Rajkumar, Professor, Department of English, Delhi University gave a detailed talk on the intricacies of Fourth World Literature. Our students also conducted themselves well by coming up with queries. The second plenary speaker, Dr. Archana Shrivastava, Associate Professor, BIMTECH, Greater Noida explained to the students the nuances of Blog writing. The students presented their research papers in the technical sessions and the abstracts of the papers were published by the Department. 3 Best Papers and 3 Best Abstracts were awarded with trophies in the Closing Ceremony to the students by the Invited Speakers.



Cultural Events at JIIT

Independence Day

The institute celebrated the nation's 71st independence day on August 15, 2017. The faculty, students and other staff members were a part of the celebration giving tribute to our national heroes, who sacrificed their lives for the independence of the nation. The events that made the day were flag hoisting by Prof. S.C. Saxena, Vice Chancellor, followed by the national anthem.



Diwali Celebrations

Diwali, the festival of lights is the biggest festival celebrated by Hindus, Buddhists and Sikhs all over the world. The festival marks the victory of good over evil. The Institute, was decorated with earthen lamps and fancy red lighting. The festival marks the significance of return of Lord Shri Rama with goddess Sita and Laxman after 14 years of exile after defeating Ravana. Special pooja is conducted in which goddess Lakshmi and Lord Ganesh are worshipped. It is celebrated on fifteenth day of Kartika, according to Hindu calendar. The JIIT family also celebrated Diwali on October 19, 2017. Lakshmi pooja was organized in the campus temple, which was performed sanctimoniously by the priest of our temple. After that, there were light fireworks in Institute ground and distribution of sweets among family members and students. JIIT tends to keep the culture alive and the festive celebrations enhanced the feelings of brotherhood, unity and togetherness among the Jitians.

Workers Day Celebrations

The institute celebrated the Workers day on January 2, 2018. It is celebrated every year in Group companies with enthusiasm and serenity. In keeping up with the tradition, it was celebrated in the the institute complex. The Vice Chancellor, Prof S.C. Saxena hoisted the flag in the front lawn followed by an oath ceremony and dispersal. The interest taken by, the participants was commendable and deeply appreciated.





Dueling Neural Networks

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Dueling Neural Networks or Deep learning Generative adversarial networks (GANs) were introduced in 2014 by Ian Goodfellow and fellow colleagues at the University of Montreal [1]. Their aim was to automate the tasks that humans were good at, generating images from descriptions; creating high resolution images; from low resolution images, predicting the drug that could be used to treat a certain disease; retrieving images with the given patterns and many more.

Generative adversarial networks (GANs) are a class of deep neural net architectures that are used in unsupervised machine learning. They are implemented using a pair of neural networks, contesting against each other in a zero-sum game framework. One neural network is called generator and other is called the discriminator [2]. Generator creates new training data, starting randomly and tries to be as realistic as possible over time and the discriminator is responsible to assess and classify them as 'real' or 'fake' and tries to excel at it. Precisely, the task of that discriminator is to decide whether an instance of the data it evaluates belongs to the actual training dataset or not. Both networks attempt to master their respective jobs across thousands of iterations, without any manual interference.

According to the MIT Technology Review, Dueling Neural Networks is one of the biggest technology breakthroughs of 2018. Facebook's AI research director, Yann LeCun, referred adversarial training (also called GAN for Generative Adversarial Networks) as "the most interesting idea in the last 10 years in ML." Artificial intelligence community researchers are paying attention to generative models because they appear to be a stepping stone for building the future AI systems that would take raw data as input from the world and automatically generate understanding from it. This is expected to give machines a sense of imagination, which may help them to become less reliant on humans.

GANs have already been applied to a wide variety of applications especially for modeling patterns of motion in video [3], reconstruction of 3D models of objects from their images[4], enhancement of astronomical images.[16]. They have also been applied in high-impact business applications like drug discovery and molecule development in oncology. Google Brain, DeepMind and Nvidia are the key players in this field. The main benefits of GANs over contemporary technologies are:

1. GANs are like a master stroke in AI as they are used to solve the real-world problems of generating 'data', when one doesn't has enough to start with.
2. They are good at 'training' models without any manual interference, a kind of unsupervised learning.
3. They are designed to avoid using Markov chains because of its high computational cost.
4. GANs have fewer restrictions as compared to Boltzmann machines.

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Security Issues

in Online Social Network

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Popularity of the online social network (OSN) has increased tremendously over the last few years. Each OSN has a unique characteristic to provide service to its users. Facebook is a bidirectional connect where users share images, audio, video, follow their page and like their page. Twitter is unidirectional, which facilitates user to share their opinion, spread message (tweet). Foursquare is a location based OSN, which allow users to share, check-in and check out information. LinkedIn offers professional services of posting a resume or work experience for job searching and recruiting and promoting a brand or service to those who may need the product or service. YouTube allows user to share videos. Periscope provides service for live streaming of videos. Whisper is an anonymous social network, the identity of the user and content remains anonymous. Pinterest, Instagram and Flickr also allow users to share images. Each OSN facilitates the user to share different types of data. Previous studies say that Facebook is generating 3.5 million posts every 60 seconds. Twitter is generating 420,000 posts in 60 seconds. YouTube is uploading 400 hours of data every 60 seconds. These data reveal lots of information about the individual family and his friends, images, location, political view, liking, academic and professional information. Users trust the service provider and share all the information on OSN. This brings a high risk of leakage of personal and private details about users, such as relationship status, date of birth, school name, email address, phone number, and even home address. OSN users are more prone to security and privacy threats like malware, phishing attack, spamming, cross-site scripting attack, Internet fraud, clickjacking, de-anonymization, face recognition, fake profile, identity clone, inference attack, information leakage, location leakage and cyber bullying.

Malware: It's a malicious software, which collects user's credentials, gains access to his or her private information and propagates itself among users and their friends in the network.

Phishing Attacks: Phishing attacks are a form of social engineering to acquire user-sensitive and

private information by impersonating a trustworthy third party.

Spamming: OSN spammers use the social networking platform to send advertisement messages to other users by creating fake profiles.

Cross-Site Scripting (XSS): The attacker, who uses the XSS, exploits the trust of the web client in the web application and causes the web client to run a malicious code, capable of collecting sensitive information. OSNs, which are types of applications, can suffer from XSS attacks.

Clickjacking: Clickjacking is a malicious technique which tricks users into clicking on something different from what they intended to click.

De-anonymization: Attacks that use techniques such as tracking cookies, network topology, and user group memberships to uncover the user's real identity.

Face Recognition: Many people use OSNs for uploading pictures of themselves and their friends. These photos can be used to create a biometric database, which can then be used to identify OSN users without their consent.

Fake Profiles: Fake profiles (also referred to as sybils or socialbots) are automatic or semi automatic profiles that mimic human behaviors in OSNs.

Identity Clone Attacks: Using this technique, attackers duplicate a user's online presence and can use this to collect personal information about the user's friends or to perform various types of online fraud.

Inference Attacks: Inference attacks in OSNs are used to predict a user's personal, sensitive information that the user has not chosen to disclose, such as religious affiliation or sexual orientation.

Information Leakage: OSNs allow users to openly share and exchange information with their friends and other users in the network that can be leaked to the third party.

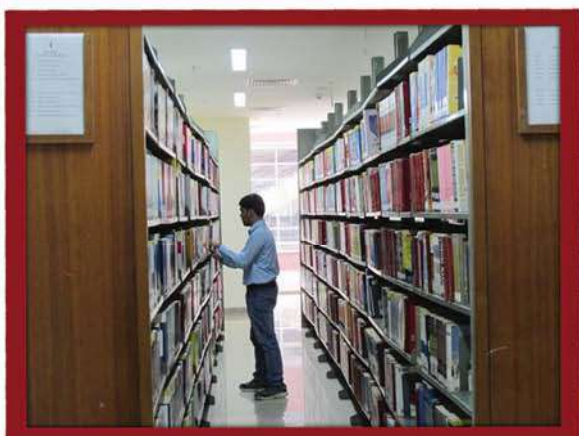
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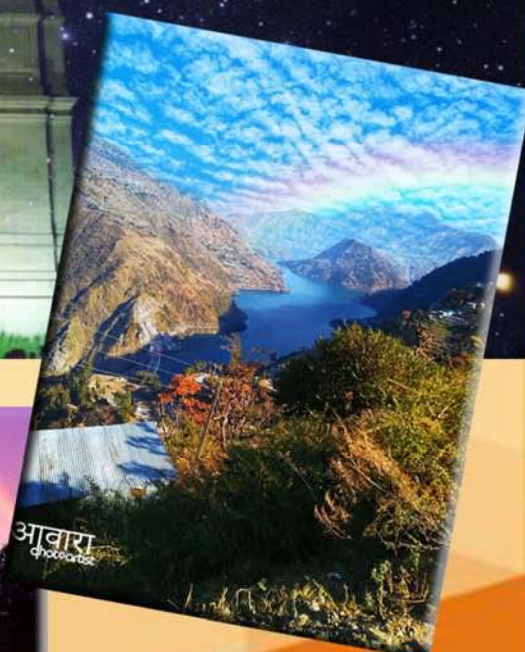
Learning Resource Center

Book Exhibition

LRC organized Book Exhibition during August 1-2, 2017 and October 12-13, 2017. Approximately 30 well known international and national publishers participated in the exhibition (McGraw Hill Education, Prentice Hall, Sage, Cambridge, Pearson, Wiley, Cengage (Thomson), Jaico publishing house, Anc Books, I.K International, CBS Publication, BPB Publication, Himalya Publication, Vikas Publication, Orient blackswan, S.K Kataria & Sons, Scitech, Khanna Publishers, Narosa Book Distributors, Oxford, New Age International, Taxman Publications, Shroff Publishers & Distributors Pvt. Ltd to name a few). On the basis of recommendation of faculty members, approx. 5000 Print Books were added during July - December 2017 in the three Learning Resource Centres. Also, LRC upgraded the Library Management Software from "Liberty" to "Koha". Koha is the first of its kind, an open-source integrated library software (ILS), used worldwide by all kind of public, academic and special libraries. Its growth and development is guided by a nurturing community of libraries and users across the world, who collaborate together to achieve its technological objectives and goals.



Lenscope



New Entrants to IIIT Family

IIIT welcomes . . .

Assistant Professor, Department of Computer Science & Engineering
and Information Technology

Amarjeet
Amarjeet Kaur
Ankita Verma
Anshu Malhotra
Anurag Goel
Aparajita Nanda
Bindu Verma
Deepti
Mridula Sharma
Rupesh Kumar Koshariya
Srishty Gupta

Assistant Professor, Department of Electronics and Communication Engineering

Amit Kumar Goyal
Archana Pandey
Ashish Gupta
Bajrang Bansal
Dharmendra Kumar Jhariya
Kaushal Kumar Nigam
Kuldeep Baderia
Raghvendra Kumar Singh
Vimal Kumar Mishra
Yogesh Kumar

Assistant Professor, Department of Physics and Material Science and Engineering

Anuraj Panwar
Dinesh Tripathi

Assistant Professor, Jaypee Business School

Kalyan Ashis Samaddar

New Entrants to IIIT Family

Training & Placement Cell

Kapil Sud, Dy. Head
Rajesh Kumar, Junior Coordinator

Library

Chandan Kumar, Jr. Library Assistant
Mani Ram Singh, Jr. Library Assistant
Devendra Kumar, Trainee
Narendra Kumar Maurya, Trainee
Ram Tiwari, Trainee
Shivam Singh, Trainee

Lab Assistants

Kamal Singh
Raveena Goswami
Prashant Tiwari
Bittoo Kumar
Deepak Yadav
Pintu Bhaskar
Arun Kumar
Kultar Singh Thakur
Satish Kumar Ray

General Administration

Mohan Waman Malse, Medical Officer
Krishna Baraik, Senior Cook
Chamkaur Singh, Senior Supervisor
Anil Kumar, Supervisor
Nitesh Goswami, Supervisor
Sandeep Singh, Supervisor



Mark Your Calendar

National Workshop
on
Role of Literature and theatre in creating
Gender Sensitivity

January 19-20, 2018

National Workshop
on
Research Process and Paper Writing

January 19-20, 2018

National Seminar
on
Effect of GST on Business and Economy

January 31, 2018

International Workshop
on
Emerging Trends in Target Identification and
Drug Design

January 31, 2018

International Conference
on
Advances in Biosciences and Biotechnology

February 01-03, 2018

National Seminar
on
Budget 2018

February 06, 2018

National Seminar
on
Budding Managers Business Plan -2018

March 14, 2018

National Conference
on
Advance Materials and Nanotechnology

March 15-17, 2018

International Conference
on
Signal Processing and Communication

March 21-23, 2018

National Workshop
on
Recent Trends in Computational Physics

April 06-07, 2018

Mark Your Calendar

National Workshop
on
Soft Computing and Language Processing

April 27-28, 2018

Faculty Development Programme
on
Re-Imagining Computing: Engineering,
Research, and Education

June 04-09, 2018

National Workshop
on
Competency Development Programme -
Multivariate Statistical Techniques for
Research

June 18-23, 2018

Summer School
on
Security in Computing

June 25-July 07, 2018

Faculty Development Programme
on
Genomics & Human Health

July 02-07, 2018

Faculty Development Programme
on
Recent Trends in Signal Processing,
Microelectronics and Microwave

July 05-11, 2018

Faculty Development Programme
on
Recent Trends in Optics and Plasma Physics

July 05-11, 2018

Faculty Development Programme
on
Data Science in the Digital Era

July 09-14, 2018

International Conference
on
Contemporary Computing

August 02-04, 2018

International Conference
on
Translation Across Cultures: Dissolving
Boundaries Creating Harmony

October 04-06, 2018



stern
AL GROUP

Coca-Cola

Caryl Baker
VISAGE
the face experts

fusion
HOMES

ERS
MART

L'ORÉAL

LUSH
FRESH HANDMADE COSMETICS

Kiehl's
SINCE 1851



GREAT GULF



Toronto

BlackBerry



GlaxoSmithKline



BDC



Deloitte

KELSEY'S

Lead Companies
Employing
JIITian's

KERNELS
extraordinary
popcorn

MONTAGU'S

CARA

24 PIZZA



DU SOLEIL



bclc
playing it right



New Apostolic Church
Canada

