October, 2017

Vol. 2, Issue- 2

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

From the Desk of Editor-in-Chief

Some would say, Research is "appropriation of new knowledge", while some others declare research as "formalized curiosity", and some would add, research is nothing but "ramblings of an exceptional mind turning rational". Whatever the definition be, the ultimate objective of any research is, to unravel that which is yet unexplained, go on a voyage to those shores, that are yet unexplored, and to reach that goal post in science, where no one has yet camped on. Current issue of "Anunaad", introduces the reader to the entire spectrum of on going research in different departments, presented as "Thrust areas of research". Closely followed is the information on "Distinguished Visitors", International / National Conferences, Workshops, Faculty development programs and Expert Lectures, each of which were aimed at bringing all the shareholders of scientific research and knowledge on the same platform, encouraging exchange of ideas and debate on advances in scientific research fueling with their academic achievements.

In his lecture "The Powers of the Mind", Swami Vivekanand opines that an ideal education and training should ultimately focus on "the man-making". In his words, "The man who influences, who throws his magic, as it were, upon his fellow-beings, is a dynamo of power, and when that man is ready, he can do anything and everything he likes". JIIT believes in creating such young talent. Time and again our students have made us proud with their remarkable achievements. "Student spotlight", is the space to watch-out to know about what JIITians are accomplishing. This issue fondly brings to you 20 pages of "hub activities" where students participated in activities beyond the bondages of their curriculum, bringing to full view their talent, artistry, acumen and interests. Imbibing the spirit of 'Science for Society', students and faculty of JIIT formed a Social activity group, believing, "If the poor cannot come to education, education must reach them....", and took to teaching the underprivileged, for few hours on Saturdays on JIIT campus. The newsletter walks you through the corridors of JIIT in the pages "JIIT through Lens", and shows you how we celebrate festivals of the Nation on the campus, in the pages entitled "Institute Events". We wind-off this issue with forthcoming events to mark your calendar.

Bringing forth a new volume of the newsletter is always a challenging task which we at the editorial desk embrace, with lots of enthusiasm and dedication. Hope our efforts are endearing to you as much as they are, to us.

Till we meet with you in our next addition.....,

With all good wishes we remain.

Prof. S Krishna Sundari
Editor-in-Chief

Thrust Areas of Research

Department of Computer Science & Engineering and Information Technology

In the last several decades, computational interventions have significantly impacted the physical, biological, psychological, and social worlds. Computing has either transformed or has demonstrated the possibility to transform the workflows, workspaces, and fundamental nature of the work nearly in all domains of production and services. It has also reshaped the personal and social spaces as well as the leisure. It has done so by redesigning the activities related to monitoring & control, search & exploration, problem solving & research, and artistic rendering & creations. It has not only made possible, automation and improvement in the existing methods, but has also helped in developing many novel ways of observation, management, analysis, experimentation, modelling, evaluation, synthesis, rendering, communication, and even collaboration. These novel interventions and transformations have been possible because of computing systems' ever-increasing ability to automate the processes to collect, store, integrate, analyse, transfer, and transform very large volumes of data – quantitative or qualitative, single or multi-dimensional, corpus or stream, invariable or dynamic, static or kinetic, centralised or distributed, structured or unstructured, facts or rules, measured or simulated, multimedia or multimodal, exact or fuzzy, confined or pervasive.

Computing researchers are primarily motivated by questions about the abstract expressions of structures and processes and also automated rendering and actualisations of those abstractions. They build and experiment with domain specific systems and carry out specific generalizations over a chosen class of systems. Their research questions relate to design, development, or performance evaluation of automation systems, paradigms, and methods for data collection, storage, processing, and communication as well as knowledge discovery and learning. They deal with questions about complexities, uncertainties, complications, and risks associated with these systems and methods. They evaluate their results and findings with respect to the constraints and success criteria related to functionality, performance, cost, schedule, technology, scalability, usability, acceptability, security, regulations, safety, health, energy, privacy, environment, and elegance among other factors. The department of CSE & IT at JIIT is actively contributing research on such questions with respect to diverse contemporary work domains as well as evolving constraints and success criteria.

Conventionally, the computing research is divided into five main over-lapping subfields - computer science, computer engineering, information science, information technology, and software engineering. Since the beginning of Computer Sciences, the dream and the ever-expanding possibilities of artificial intelligence, have been pushing the boundaries of research in various subfields. Pervasive & cloud computing and computational & data sciences are the new research frontiers, offering novel prospects for complex problem solving, system designing, understanding human behaviour, and also investigating new questions that were earlier not ventured due to scale of the challenges. Our department's researchers are diligently working on these frontiers to leverage and create newer opportunities.

In order to improve pratices related to computing profession, researchers investigate and develop new methods, tools for systems and software engineering on one hand and computing education & training on the other. Increasingly, their research concerns also include the possibilities and challenges of using Information and Communication Technology (ICT) for human and societal development as well as issues related to equity, accessibility, environment, and sustainability. ICT playing a progressively central role even in the personal and social lives, the contemporary computing research also re-examines an re-interprets some fundamental human issues related to cognition, affect, dignity, justice, ethics, democracy, and happiness.

The department's research engagements include these traditional as well as emerging concerns.

Normally, it is not possible for small or mid-size Computer Science departments to stretch the scope of their research beyond a few of the above mentioned areas and concerns. However, with more than ninety faculty members including thirty five with PhD, our faculty strength has been leveraged to ensure that the department is not skewed towards only a few of these areas. At least a few faculty members are actively working almost in most sub-areas of omputing. Their research engagement has resulted in the publication of hundreds of research papers and completion of hundreds of master's / doctoral theses as well as thousands of student projects in diverse areas. At present, the research activities of the department explore and investigate the theoretical, systemic, applied, and educational aspects mainly related to the following thrust areas of computing, in each of which at least five faculty members are actively engaged: 1. Artificial Intelligence, 2. Data Science, 3.Cloud Computing, 4. Information and Cyber Security, 5. Pervasive Computing and Internet of Things, 6. Multimedia Computing, and 7. Software Engineering and Information Systems.

Research in these broad thrust areas is supplemented by activities of two research centres. While the first aims to help improve the rigour and methods of research in all areas of computing, the second works towards contextualising it in a broader societal context and contemporary human concerns.

1. Centre for Performance Modelling of Computing systems—Performance assessment is a key step in most computing related research activities. Performance assessment methods use analytical modelling, simulation, and empirical measurement techniques. Computing systems' performance claims often get weakened because of oversights, misconceptions, undefined/biased goals, wrong assumptions, incorrect metrics, unrepresentative workloads, overlooked parameters, ignored factors, inappropriate experiment design, erroneous analysis, wrong evaluation techniques, or unsystematic approach. This centre provides opportunities to share and further develop the performance assessment methods, metrics, datasets, benchmarks, tools, workbenches, and modelling techniques across different computing areas. A multi-faculty research project to build a Corpus of Performance Assessment of Computing Systems (COPACS) has been initiated under this centre.

2. Prayag, a Centre for Knowledge Informatics for Sustainable Development—Sustainable development is about meeting the needs of the present without compromising the ability of future generations to meet their own needs. It is concerned about environmental, economic, social, and cultural aspects. Often the sustainability problems are complex and are beyond the realm of any single knowledge area or even a complete academic discipline. Sometimes they are also beyond the realm of documented knowledge and even awareness. Creation of sustainable systems requires holistic thinking, cross-disciplinary approach, multi-perspective integration, and innovation. This centre encourages the faculty and students working in different computing areas to integrate their work and also align their research concerns with the UN defined Sustainable Development Goals (SDGs) and targets related to the environment, health care, education, heritage, rural development, and other such issues. A multi-faculty research project to build a Corpus of Resources and Engagements for Deep and Effective Learning (CREDEL) has been initiated under this centre.

Department of Electronics and Comminication Engineering

The research activities at the department can be broadly classified into following three categories:

1. EMERGING COMMUNICATION TECHNOLOGIES

Currently the communication group is working in the following areas:

(i) Investigating capacity and capacity regions of wireless channels, cellular systems, ad-hoc networks and networks with time-varying multiuser channels

(ii) Shortcoming of OFDM system such as high PAPR

(iii) Designing band-stop filters, low-pass filters, band-pass filters and phase shifters using Electromagnetic Band-gap (EBG) structures

(iv) Study of finite antenna systems for MIMO systems and devising encoding/decoding schemes and investigating the competitiveness of these schemes with schemes using instantaneous channel knowledge

(v) Optimizing the use of radio-frequency (RF) spectrum while minimizing interference to other users in cognitive radio systems

(vi) Study and design of energy efficient methods for under water communication

(vii) Development of an ultra wide band pass filter with multiple notch band characteristics for WIMAX, WLAN and other interfering frequency signals for UWB communication

(viii) Substrate integrated waveguides (SIW) and Folded SIW technology, and design of optimized microwave integrated circuit components such as couplers, filters in this technology

(ix) Study of effect of noise and other parameters in molecular communication

2. SIGNAL PROCESSING

Currently the signal processing group is focused on the following areas:

(I) Designing of analog filters and oscillators using current-mode active elements

(ii) Use of CCTA, CCCCTA, CDTA, VDTA, CFTA, DVCCTA for designing of high performance analog blocks such as filters, oscillators, multipliers, differentiators based on these current-mode active elements

(iii) Some studies on multidimensional Fourier theory for Hilbert transform, analytic signals and space-time series analysis

(iv) Fourier Decomposition method for nonlinear and non-stationary signal analysis.

3. DIGITAL SYSTEMS AND VLSI

Currently the Digital Systems and VLSI group is working on the following areas:

(i)VLSI system design (both Front end & Back end design) covering algorithms, Hardware description languages, System Architectures, Physical design, Verification techniques, Simulation & Synthesis, Low power design techniques and mixed mode design methodologies

(ii) Nano-scale devices like FinFET, Cantilever Beam Based MEMS Inverter and their Modeling

(iii) Sub 50nm CMOS technology modelling

(iv) Mixed Signal VLSI Design

(v) Embedded Systems (IOT Based).

We live in a wonderful world that is full of beauty, charm and adventure. There is no end to the adventures that we can have if only we seek them with our eyes open.

- Jawaharlal Nehru

Thrust Areas of Research

Department of Bio-technology

Thrust Areas of Research

The department of Biotechnology has a Centre for Emerging Diseases, and a Research Group (Plant & Microbial Biotechnology.) Research, reflected as funded projects, publications, patent filing, software and niche products is carried out in following areas:

i. Functional Genomics & Proteomics: The area focuses on emerging/re-emerging pathogens: Chikungunya (CHIKV) and Chandipura (CHPV) viruses. Genes from Indian isolate of Chikungunya Virus have been cloned, sequenced and analysed phylogenetically; Cellular factors associated with CHPV during pathogenesis predicted; possible modes of neuroinvasion hypothesised; and Host protein interactors of viral membrane proteins identified. .

ii. Plant and Microbial Biotechnology: The group addresses growing concern over environmental pollution, depleting natural resources and increasing demand of natural bio-products of therapeutic and industrial importance. Work areas include: Food flavours, probiotics, enzymes, biopolymers and bio-inoculants.

iii. **Medical Biotechnology:** Bacterial pathogens and life style diseases such as obesity & diabetes, cancer, cardiovascular and CNS disorders studied using both wet lab and tools of computational biology/bioinformatics. Research emphasis is also on peptide based therapeutics, regulatory peptides, biosensor/ ELISA based diagnostics, drug encapsulated nanoparticles and nanoemulsions.

iv. Nanobiotechnology: Nanoparticles of metals and enzymes have been synthesized and exploited for development of biosensors with improved stability, sensitivity and response time. A nanoparticle based glucose biosensor has been developed. Currently thyroid biosensor and immunosensor for cancer diagnosis as point of care device development are being investigated.

v. **Bioinformatics:** Work focuses on clinical data management, computational genomics, machine learning, in-silico target-ligand interactions & role of networks in pathogenic organisms and chronic diseases. Development of pipelines, databases and tools like multi-level system to study clinically relevant condition, semi-automated text mining system to mine bibliographic records, functional model for drug activity and metrics for leveraging Clinical Data Management systems.

vi. Evolutionary Biology: The Indian Drosophila is being studied to infer its phylogenetic relationships and use it as a model species to understand speciation, adaptation, aging, development and toxicology.

vii. Novel Drug Delivery Systems: Research on synthesis of polymeric Nanoparticles (chitosan, PLGA) containing encapsulated, dispersed, absorbed drugs to improve the delivery and bioavailability of drugs for CNS related disorders. Nanoemulsions encapsulating natural catechins and flavanoids being investigated for enhanced efficacy and bioavailability.

viii. Transcriptomics: MicroRNAs profile libraries prepared from various developmental stages of chick heart; Database of known & novel cardiomiRs and their targets prepared for wider applications.

ix. Molecular Structure Biology: Cloning and purification of novel drug targets from five human pathogens (infecting respiratory and/or gastrointestinal tract) achieved for determining their three dimensional structures.

x. Environmental Biotechnology: Microbial remediation of organophosphate pesticides, biocatalyst for refining petroleum products, phytoremediation of heavy metals- copper, lead, antimicrobial compounds-peptides/antibiotics, consortium of PGPM as biofertilisers, biopesticides for increased agriculture productivity.

Department of Physics and Materials Science and Engineering

1. Advanced Materials and Devices

In recent years, discovery of new materials has improved human life through a large number of useful technologies based on the functional properties of these materials. Be it industry or research organizations, development of new and better performing materials has taken centre stage of activity worldwide. With emergence of new tools and technologies, understanding of materials and capability of tailoring their properties to make them more functional and useful have tremendously increased. The capability of manipulation of materials and their properties is the key for making things with superior mechanical, electrical, magnetic and optical properties, more sustainable and cost-effective. This has made advanced materials and devices an attractive field of research in industries related to Automobile, Information & Communication technology, Energy storage and Energy conversion or any other industry concerning Civil, Defence or Space applications.

Research activities of the PMSE department are focused on Green energy materials and devices, Solar cells and LEDs, Ferroelectric and Multiferroic Materials, Piezoelectric materials for MEMS applications, Heusler compounds and their spintronic and energy applications, superconducting, thermo-electric materials, Materials for Opto-chemical and fluorescence sensors, Molecular modeling and simulations of materials, Quantum dots, Metal-oxide nanostructures, and functional nanomaterials. .

Currently, 12 faculty members, and 9 research scholars of the department are working in the area of Advanced Materials and Devices. Five research projects worth Rs. 97.01 Lac received from various Govt. agencies have been completed/ ongoing in this thrust area of research.

2. Photonics, Plasma and Quantum Computing

PMSE department is working on various aspects and applications of photonics, plasma physics and quantum computing. The Interaction of high power laser with plasma has emerged as a subject of world-wide interest due to its applications in laser fusion, particle accelerators, and radiation generation. Magnetically confined plasma device could be the biggest source of clean and green energy for mankind. Plasma can also be harnessed for waste disposal, food processing, and development of plasma medicines. Plasmonics is a growing field of research, dealing with the unique optical properties of metal nano-structures to manipulate and confine light, with applications to biosensors, tera-hertz radiation sources and plasmonic chips. Similarly, Photonics involves tremendous applications in communication, science and technology, medicine, image processing, defense, optical computing etc. Recently, quantum computation and communication have evolved as important fields of study as the unconditional security achieved in quantum cryptography is un-achievable in classical world and it can substantially speed-up computation if a scalable quantum computer is built.

Research activities in the PMSE department are focused on photonic crystals and devices, optical fiber sensors, surface plasmon, higher order non-classical states, quantum cryptography, quantum gates and circuits, laser plasma interaction, magnetic fusion and tera-hertz radiation generation.

Currently, 10 faculty members, and 7 research scholars of the department are working in the area of Photonics, Plasma and Quantum Computing. Four research projects worth Rs. 88.5 Lac received from DST have been completed/ ongoing in this thrust area of research.

Department of Mathematics

The Thrust Areas of Research

The Department is involved in the following research areas of Mathematics attempting a good blend of pure and applied mathematics of contemporary importance.

Fractals and Chaos and Mathematical Analysis

Nowadays, Fractals and chaos are new and emerging frontiers of interdisciplinary research. They make significant contributions in the fields of image and signal processing, image compression, data compression and various other approximations. Mathematical analysis provides the foundation for further development in these areas. Quantum logic, in essence, can be thought of as a bridge between quantum propositional logic and quantum probability calculus. Some of the important concepts in measure theory like outer measures, signed measures and its decomposability are proposed to analyze elaborately in the framework of the new quantum structure effect algebra. Geometry of Finsler spaces is metric generalization of Riemannian spaces. On the other hand, the geometry of Lagrange and Hamilton spaces is more general than that of Finsler spaces. These geometries have a lot of applications in various fields of science such as Physics and Ecology.

Fuzzy and Information Theory

In this age of uncertain environment and information revolution, the role of fuzzy sets and information theory is of prime importance. Research areas include fuzzy topology, fuzzy automata, fuzzy genetic algorithm for time series predictions, ANN fuzzy approach for water table elevation, fuzzy optimization and decision making. Information theory deals with the study of problems concerning information processing, information storage, information retrieval and decision-making. This includes the study of uncertainty measures and various practical and economical methods of coding information for transmission. Currently, work is going on in areas related to image processing, watermarking, visualization, computer vsion, wavelet, biometrics, machine learning, pattern matching Image or video watermarking using different schemes in spatial and transform domains.

Numerical Analysis and Computational Continuum Mechanics

The overall goal of the field of numerical analysis is the design and analysis of techniques to give approximate but accurate solutions to hard problems. Numerical Methods are instrumental when either analytical solution is not available or such a solution is time-consuming. Numerical solution of the problems occurring in Computational Continuum Mechanics is of great practical importance. The governing factors such as: simultaneous ordinary and partial differential equations remain highly nonlinear and therefore, cannot be solved analytically. These equations can be solved numerically by using numerical methods such as finite element, finite difference, splines etc. Models based on different geometries such as: vertical and inclined plates, parallel plates, stretching sheet, cylinder have applications in nuclear reactors, automobile/aerospace industries, microelectro-mechanical systems (MEMS) as well as biomedical fields. Some new exact solutions of Einstein field equations and some other physically important nonlinear partial differential equations can be explored by using group theoretic techniques such as Lie classical method, symmetry reduction approach, painleve analysis, expansion methods etc. These exact solutions provide information about nonlinear phenomena and well described aspects of the physical phenomena. Also, these exact solutions are important tools for designing and testing of numerical algorithms.

Departement of Humanities and Social Science

Higher Education

Higher Education Research Group's aim is to bring together all those with a special interest in the full continuum of Higher Education and promote high quality learning through evidence-based, practical approaches to teaching and learning. The objective of this group is to promote comparative and global perspectives on contemporary development in Higher Education in areas like effective teaching, learning mechanisms, teaching methods and learning outcomes.

Broad areas
Quality assurance in Higher Education, Lifelong learning and Access to Higher Education, Graduate Employability, Teaching in Higher Education: Supervision, Assessment, Innovation and Creativity in Teaching: Learning, Pedagogy, Learning Outcome, Well-being and emotions in Teachers, Management and Leadership in Higher Education, Globalisation and Internationalisation of Higher Education.

Economics and Finance

The group conducts quality research in the fields of Finance and Economics and aims to facilitate the creation and diffusion of high quality interdisciplinary research leading to the publication of varied and influential papers. The aim of the group is investigating, from both the empirical and theoretical points of view and in understanding the real consequences of the development of the economic system at the regional, national and international levels.

Broad areas
Financial Inclusion, World Trade Organisation (WTO), Decentralisation, Micro & Macro Economics, Public Finance, Development Economics, Financial Accounting, Corporate Finance.

Language, Literature and Society

Literature is the reflection of society and instrumental in enacting social changes. Literature allows one to question existing beliefs and examine our lives, giving it a deeper meaning, as society evolves and changes. On the other hand, the primary objective of language is not only to express our thoughts but also an expression of our identities. Our identities are a conglomeration of our social and political relationships. Language through literature connects cultures and traditions of the various segments of the society by opening up a new vista of experiences. Thus, there is a lot that exists at the intersection of Language, Literature and Society and needs to be explored.

Broad areas
Gender Studies, Language, Literature, Culture, Law, Politics, Power, Ideology and Society.

Human Aspect in Management and Technology

Universities around the world aspire to be comprehensive. Management, which had taken a backseat, is now being introduced with great aplomb as a proof of university's commitment to the future. Keeping the same spirit in mind, faculty of Humanities and Social Sciences department are involved in teaching the courses that guide the engineers to understand their vocational responsibilities. Active research is also being carried out under this thrust area in the dimensions of marketing and service marketing, consumer behavior, customer relationship management and knowledge management.

Broad areas

Managing and Marketing of Technology, Customer Relationship Management, Technology and Culture, Project Management, Entrepreneurial Development and Knowledge Management, Positive Psychology, Organizational Behaviour.

Jaypee Business School

Thrust Areas of Research

JBS strives to conduct research in emerging areas of management that have direct impact on the functioning of business organizations. The research undertaken is not restricted to conventional functional areas of management but is either inter-functional or of inter-disciplinary in nature. Some ongoing researches in the emerging issues under each functional area are as follows:

1. Marketing Management: Research in this functional area is broadly done on the following topics:

- Social Media and E-Marketing
- Innovative Marketing Strategies and Web Management
- Marketing Flexibility
- Customer Satisfaction
- Brand Management

2. Financial Management: In this area the topics for research are:

- Behavioural Finance
- Microstructure of Financial Markets
- Corporate Finance and Financial Fraud
- Mergers and Acquisition
- Commodities and Derivatives

3. Human Resource Management: Topics in this area of research are:

- Positive Organizational Behaviour with reference to well-being
- Workplace Bullying
- Passion at Work
- Managerial Competencies
- Employee Engagement
- Employability
- Employer Branding

4. Operations and Supply Chain Management: Ongoing research work in this area are:

- Sustainable Supply Chain Management
- Service Operations Management
- Firm Efficiency and Labor Productivity
- E-Procurement and Sustainability Index

5. IT and General Management: The focus of this area is towards identifying emerging trends in understanding economy, international business and corporate entity, such as:

- Waste management and Recycling
- Corporate Sustainability
- Flexible Management System
- Business Analytics and Big data
- Sustainability Index for Information Technology Enabled Services.

Distinguished Visitors

Dr. Subhash Bhalla
Professor,
Aizu, Japan
June 05, 2017

Prof. D. K. Agrawal
Director, Microwave Processing and Engineering Center, Pennsylvania State University, USA
March 08, 2017

Prof. Deepak Khazanchi
Associate Dean, College of Information Science & Technology, University of Nebraska, Omaha, USA
February, 2017

Prof. Maria Elena Bottazzi
Associate Dean, Baylor College of Medicine
Houston, Texas, United States
February 23, 2017

Prof. Appa Rao Podile
Vice Chancellor,
University of Hyderabad, Hyderabad
February 03, 2017

Prof. Ramesh Bansal
Professor, Engineering,
University of Pretoria, South Africa
January 10, 2017

International Conference on Peaceful and Prosperous South Asia-Opportunities & Challenges (ICSA-2017)

The Department of Humanities & Social Sciences, Jaypee Institute of Information Technology made its indelible mark on the multi-focal research canvas of today, through its maiden venture of 3-day International Conference on Peaceful & Prosperous South Asia: Opportunities & Challenges. The conference organized from 27-29 March, 2017 saw a gallery of events; A variety of Plenary Talks, Technical Sessions, Round Table Discussions, Hackathon event, Poster Presentation and saw a galaxy of Intellectuals coming together to change the atmosphere with creative thoughts and an exchange of fruitful dialogue between participants. The conference had very positive and vibrating deliberations on the four broad themes of

- Emerging South Asia in a Globalised World
- Entrepreneurial Solution for Communities in South Asia
- Building a Peaceful and Democratic Society in South Asia
- South Asian Literature: Diluting Borders, Bridging Gaps

The 100 plus participants from various parts of India, Afghanistan, Iran, Bangladesh, Sri lanka, UAE, UK, USA, Maldives and Plenary Speakers from South Asian University; Delhi University; Sonoma University-USA; Concordia University, Canada; University of Rajasthan; University of Allahabad; Jamia Milia Islamia; Gurukul Kangri, Haridwar enriched the research acumen through their scintillating & scholarly speeches and papers. The 3-day event was truly one of its kind as it brought the best of the intellectuals from academia on one platform and gave an opportunity to all to listen to their interesting and research provoking talks during the plenary sessions.

International Conference

International Conference on Advances in Plant & Microbial Biotechnology (PMB-2017) February 02-04, 2017

Department of Biotechnology, JIIT, successfully organized its first major International Conference on "Advances in Plant & Microbial Biotechnology" from 02 - 04 February, 2017. A galaxy of distinguished speakers from across India and abroad delivered keynote lectures, enriching the audience with latest developments in various areas of Biotechnology. The Hon'ble Vice Chancellor Prof. S. C. Saxena as the Patron spearheaded the Conference and Prof. Sanjay Gupta, HoD Biotechnology chaired the Conference. Prof. S Krishna Sundari and Dr. Pammi Gauba were the organizing secretaries. The conference had the privilege of engaging a National Advisory Committee comprising of eminent scientists: Dr. Alok Adholeya, TERI, New Delhi; Prof. Appa Rao Podile, Vice Chancellor, HCU, Hyderabad; Prof. T Satyanarayan, NSIT, Delhi; Prof. Ashwani Pareek, JNU, New Delhi; Prof. J S Virdi, DU, New Delhi amongst others.

Distinguished speakers represented various International Organisations (GIZ, Germany; World Bank; United Nations Industrial Development Organisation; Valent BioScience Corporation, USA; CISCO, USA; J-PAL, MIT, USA); Universities (Jawaharlal Nehru University (JNU); Hyderabad Central University (HCU); Jamia Milia Islamia (JMI); University of Delhi (DU); Netaji Subhash Institute of Technology (NSIT); Government of India: Ministry of Environment & Forestry; Association of Biotechnology Led Enterprises (ABLE); Central Pollution Control Board (CPCB); TIFAC (DST), Confederation of Indian Industry (CII) and Industry: IL & FS (Infrastructure Leasing & Financial Services), Arctic Invent.

The conference witnessed a representation of 67 institutes/universities across India. With a total of 134 registered papers categorized under Oral and Poster presentations, attendees experienced a wide palette of scientific research presented. 258 registered participants took part in the conference deliberations.

Workshops

Competency Development Programme on Business Research and Analytics

June 19-24, 2017

Third Competency Development Programme was organized by Jaypee Business School. The first two were organized in the years 2015 and 2016 respectively. This year the programme got an overwhelming response, as all the thirty seats were filled by external participants. Participants arrived from various states of India (Maharashtra, Rajasthan, Uttarakhand, Bihar, Haryana, Delhi and Uttar Pradesh). Certificate of participation were given to the participants after the completion of the programme. Topics covered were Introduction to Research and Analytics, Research Design, Data & Sample Design, Data Screening and Management, Data Analysis, Advanced Data Analysis, Data Visualization and Scientific Reporting. Dr. Moonis Shakeel was Programme Coordinator and Resource Persons were Dr. R.K. Misra, Dr. Moonis Shakeel, Dr. Naseem Abidi, and Mr. AV Surya.

Cyber Srishti

April 22-23, 2017

"Cyber Srishti 2017 - A Two Day Technical Festival" showcased several technical events organised by various Technical Hubs. These events majorly included Project Exhibition, Hackathon – Open Source, Hackathon – Games, Execute 17.1, Automated Robotics Challenge, Circuit Mania, Code Simulate Debug, Code of Codons, Hydrophilic 2.0, Paper Presentation, Start-up Weekend & Invited Talk, Socio Technical Debate, Jaypee Premier League, Creative Design, Blind Coding, Treasure Hunt, Fastest Finger, and many more events. Around 2500 participations took part in different rounds of various events. Another highlight of the fest was invited talks. Ms. Shuchi Aggarwal, Chief Design Officer at e2logy delivered the talk on “Full service applications development". Mr. Saswata Shankar De, Lead Supply and Operations at Squadrun talked about "Own Startup First Meal". Also, Ms. Divya Gupta, CEO of Udgam threw light on "Seed Investments". Mr. Srikanth C, Assistant Vice President, Insurance Practice, Cognizant Technology Solutions, Chennai enriched the audience with an expert lecture. The Chief guest for the event was Mr. Abhay Kumar Vaish, Technology officer & Head of Network Engineering, Ericsson, India Global Services.

Internet of Things
April 19-20, 2017

Department of Computer Science successfully conducted a two day workshop on "Internet of Things" using Raspberry-Pi in collaboration with CETPA Infotech Pvt. Ltd. Noida. It was conducted on 19 - 20 April, 2017. A total of 38 students attended the workshop on both the days out of a total 65 registered for the workshop. CETPA Infotech Pvt. Ltd., is leading, ISO 9001:2008 Certified Company in the field of Software Development, Embedded Products Development, Placement Consultancy and Engineers Training Programs. They are also the authorized training partners of Microsoft, Oracle WDP, Autodesk, Panasonic, NSDC, TSSC and many other organizations. On the first day, Mr. Amit Bhandari, expert from CETPA Infotech Pvt. Ltd. gave insights on IoT and involved technologies. The lecture session was fully supported by a hands on practice session on the second day. Students understood the importance of extensive use of embedded systems and python programming for home security and for managing home appliances using IoT.

Recent Trends in Mathematical Modelling and Scientific Computing
April 07-08, 2017

Department of Mathematics, Jaypee Institute of Information Technology, successfully organized a two day, CSIR sponsored, workshop on "Recent Trends in Mathematical Modelling and Scientific Computing", from 07-08 April, 2017 at Sector-128 campus. Two days of workshop were intellectually marked by eminent speakers from IIT, Bombay and University of Allahabad. Professor B. Rai, former HOD of Mathematics, University of Allahabad delivered a series of lectures on "Two Species Model in Population Ecology". Professor V. D. Sharma, Institute Chair and Professor, Department of Mathematics, IIT Bombay, delivered a series of lectures on "Hyperbolic Partial Differential Equations and associated Wave Phenomenon". A large number of participants registered from various parts of the country. The workshop included invited talks by distinguished academicians in the field of mathematical modelling and scientific computing. The workshop provided an excellent platform for collaborative research between senior and new researchers.

Multimedia Tools and Its Utilities
March 23-31, 2017

A five day short term course on Multimedia Tools and its Utilities was successfully organized by Dept of CSE at Jaypee Institute of Information Technology, Sector -128, Noida, India, in association with NITTTR, Chandigarh through ICT mode. Lectures were delivered by eminent faculty from NITTTR, Chandigarh such as Mrs. Sangeeta Gupta, Dr. Maitreyee Dutta, Mr. Amit Deogar, Mr. Viney Vadhera, Mr. Ashish, Mr. Bharat Bedi and Ms. Shikha Sharma from Panjab University, Chandigarh. There were 25 participants, out of which 11 were from JIIT, Noida and 14 from various other Institutes from India like Gautam Buddha University, Greater Noida; University of Lucknow, Lucknow; Jaypee University Anoopsahar and Jaypee Business School Noida.

Wireless Sensor Network
March 16-18, 2017

The workshop aimed to introduce today's wireless and Sensor network technologies, as well as future technologies and techniques required to engineer the network in the coming decades. It provided a forum to exchange ideas, discuss solutions and share experiences among researchers, professionals from industry and academia in the field of Wireless Sensor networks. The workshop focused on introducing the Wireless Sensor Networks, the sensor nodes, their characteristics, the deployment issues, operational models, applications, programming & simulation environment of WSNs, demonstration of the WSN kits as well as sample applications on WSN nodes.

PHOTOPTICS
March 09, 2017

A one day Workshop on "PHOTOPTICS" was organized by department of Physics and Material Science and Engineering on 09 March, 2017 at JIIT Sec-128, Noida Campus. The aim of the workshop was to provide a broad view of basic concepts and current research related to Optoelectronics and Photonics. It was successfully executed by eminent speakers from reputed research institutes. In total, 3 talks were delivered by Dr. Anil K. Razdan, Scientist-G and Associate Director, LASTEC, DRDO, Delhi, Dr. Shiv Kumar, Scientist-G , SSPL, DRDO, Delhi and Dr Bhaskar Kanseri, Assistant Professor, IIT Delhi. The workshop covered application of Lasers, Infrared detectors and some aspects of classical and quantum Optics domain.

CMOS, Mixed Signal and Radio Frequency VLSI Design
January 30 - February 04, 2017

The ISTE Short Term Training Programme (STTP) on "CMOS, Mixed Signal and Radio frequency VLSI Design" was held at the Department of Electronics and Communication Engineering of Jaypee Institute of Information Technology, Sector 128, Noida. This workshop was held under the aegis of National Mission on Education through ICT (MHRD). The objective of the workshop was to provide an exposure to the concepts of analog front end for sensor interface, data converters, Digital VLSI, RF circuits and design and implementation of RF Tx-Rx subcomponents. The workshop introduced new innovations and research approach through a series of lectures. The workshop provided opportunities to faculty members to enrich their teaching skills and research in the field of VLSI design. The objective, therefore, of the workshop, was to make teachers aware of the recent designs, implementations and challenges in the areas of VLSI design.

Faculty Development Program

Information System Frontiers
05-10 June, 2017

Information System is the impetus behind the transformation in business processes for every sector of the economy. Information System powered by Information Technology serves as a supportive technology to an organization; employed to collect, filter, process, create and distribute enormous data. In the present era, communication, computerization and Artificial Intelligence (Cognitive science) is culminating as new frontier of technology and impacting the automation of Information Systems.

The six day Faculty Development Programme (FDP) on "Information Systems Frontiers", organized by the Department of Computer Science and Engineering, JIIT, Sector 128 discussed the frontline developments at the cross points of Information Systems and Information Technology. It brought awareness amongst faculty members about the various related technological advancements. The technical sessions presented and discussed the concepts, applications and research directions related to the theme. The key topics and the related areas covered during this 6 day event were related to Data and Process Models, Data Analytics, Big Data Bases, Machine Learning, Data Fusion Models, Web Technology, e-Commerce, Enterprise Modelling, Mobile Computing, Distributed Computing, and Information Systems Models. A total of 17 sessions and 04 open discussions covered all the broad areas discussed under this program. The speakers were from reputed institutions of the INDIA like IIT, NIT, IIIT, BITS, JIIT.

Industry/Academia Dialogue

Expert Lectures

- "Machine Learning: Current, State of the Art and Futuristic Role in Big Data", Prof. Madan Gopal, Director, Shiv Nadar University, Noida, India, April 25, 2017.
- "Design and Verification using HDL", Mr. Nitin Kishore Founder & Chief Executive Officer of Truechip, India, April 25, 2017
- "Machine Learning", Prof. Madan Gopal, Formerly, Professor, Iit Delhi, India, April 25, 2017.
- "Research Challenges in Wireless Sensor Networks", Mr. Shashi Bhushan Sharma, Associate Professor, IGNOU, New Delhi, India, March 18, 2017.
- "Localization in Wireless Sensor Networks", Dr. Anil Rose, Associate Professor, Chandigarh College of Engineering and Technology, Chandigarh, India, March 18, 2017.
- "SAP - Overview", Mrs. Avnika Agarwal Entrepreneur (Owner) of the-learners.com, India, March 03, 2017.
- "Careers in Cyber Law", Mr. Saurabh Kumar Singh, Advocate, Delhi High Court, India, March 03, 2017.
- "Information and Communication Technology in Healthcare", Mr. Baljit Singh Bedi, Head, Medical Electronics and Telemedicine, India, March 1, 2017.
- "Health Biotechnology: Alternative Career Opportunities to Combat Emerging and Tropical Diseases", Prof Maria Elena Bottazzi, ebruary 23, 2017.
- "Indian Spirituality for Meaningful Organizational Performance: A Holistic Model", Dr. J K Sharma, Head-CRM, Jagsonpal Pharmaceuticals Limited, New Delhi, India, February 04, 2017.
- "Critical Research Intervention for Technology Development & Customization", Dr. Alok Adholeya, Director Research, Mycorrhizal Application LLC, MO, USA & Honorary Advisor, TERI, New Delhi, India, February 04, 2017.
- "From *Yersinia* Genomics to Point of Care (POC) Diagnostics for Antibiotic resistance", Prof. J. S. Virdi, DU, New Delhi, India, February 03, 2017.
- "Experiences and learning in the Solid State Management Sector", Mahesh Babu, IL&FS Environmental Infrastructure & Services, India, February 03, 2017.
- "A practitioner's look-back on Environmental Biotechnology- after 15 years' hiatus", Gaurav D. Joshi, Sr. Env. Specialist, World Bank Group, India, February 03, 2017.
- "Biobotanical Pesticides as safe Alternative to synthetic chemical pesticides", Dr. Patanjali, UNIDO, india, February 03, 2017.

Industry/Academia Dialogue

Expert Lectures

- "CDMA and the role of ECE Students in telecom Industry", Mr. Abhay Vaish, CTO & head Ericsson, Noida, India, April 25, 2017.
- "Microbes as Air Pollutants and the Control', Dr. Sanjeev Aggarwal, Scientist G, CPCB, MoEF, New Delhi, India, February 03, 2017.
- "Co-processing of Organic Waste and Septage into Biogas – Pilot Project at Nashik", Mr. D Walther, Project Director, Deutsche Gesellschaft fur Internationale Zusammenarbeit(GIZ), February 03, 2017.
- "Bioremediation a tool to mitigate soil pollution: A national and International Perspective", Dr. Rashid Hassan, Advisor & Scientist G, MoEF, India, February 02, 2017.
- "Big data in research and informatics", Mr. Sivakanth Sattiraju, CISCO, SanJose, California, USA, February 02, 2017.
- "The Science of Human Behaviour and Rural Energy Production", Ms Jennifer Allard, Sr. Research Manager, J-PAL South Asia Inst. for Financial Management and Research, Head Office, USA, February 02, 2017.
- "Innovative Pilots and Technologies to overcome Ecological Resource Deficit's in the field of Waste Management", Mr. Lalit Sharma- Senior Technical Expert, Deutsche Gesellschaft fur Internationale Zusammenarbeit (GIZ), Head Office, Germany, February 02, 2017.
- "Development of reliable molecular assay for rapid detection of *Niessieria Gonorrhoeae*", Prof. T. Satyanarayana, NSIT, New Delhi, India, February 02, 2017.
- "Cognitive Computing - Artificial Intelligence v2.0", Dr. Sahil N Mathur, India, January 01, 2017.

Laurels Won

Dr. Parul Puri
Received Special Mention – Excellence in Research in 5th Academic Brilliance Awards, 2017

Mr. Kishore Thapliyal
Selected as Theoretical Physics Seminar Circuit (TPSC) category-A speaker for year 2017

Ms. Meenakshi Rana
Received NASI-SPRINGER Award in Physical Sciences (oral presentation), 2017

Dr. Subhash
Obtained National Post Doctoral Fellowship (NPDF), 2017

Dr. Prateek Varshney
Obtained National Post Doctoral Fellowship (NPDF), 2017

Dr. Pradeep Jha
Obtained Institute Post Doctoral Fellowship in IIT (BHU), 2017

Dr. Rachana
Received Indian Women Achievers Award by Anchor Media Group, Stree Samman, 2017

Dr. Vibha Rani
Received S. C. Tyagi "Young Faculty Award, 2017" in International Conference on Recent Advances in Cardiovascular Research Impact on Health & Disease

Student Spotlight

PLAYSIMPLE

Start-up By Alumini

PlaySimple Games

PlaySimple Games is a mobile game development company that was founded in 2014 by Siddhanth Jain, Preeti Reddy and Suraj Nalin.

The company secured their initial seed funding from IDG ventures in 2014 which was shortly followed by the release of their first game, GuessUp. GuessUp was an emoji-based puzzle game, which was received with an overwhelming response, especially in Egypt – where it went top of the charts. Soon after, WordTrek was released and quickly became the company's flagship game,amassing over 10 million downloads across platforms. In 2016, PlaySimple Games was also selected in the second edition of Google's Launchpad Accelerator programme in 2016 as one of the six companies from India.

4 students were offered a CTC of 27 Lakh in Amazon

Open Source Developers Club

'Open Source Developers Club' hub conducted various events during the period July, 2016 to June, 2017, 'Welcome to Linux', organized on 30 September, 2016 at JIIT level was a one day workshop on Linux systems. Further 'Introduction to GIT', conducted on 13 October, 2016 was a one day workshop where students were given training to work on GIT Hub at JIIT level. On 12 and 13 November, 2016 a two day camp on Drupal Technologies had been organised at national level. 'Hackathon – Open Source', organised during the annual technical festival of JIIT "Cyber Srishti – 2017" on 22 April, 2017, at national level was a seven hour long onsite hackathon where each students team (four members) was supposed to make a project on the theme "IT for Sustainability" and around 150 students participated.

Knuth Programming Hub

'KNUTH Programming Hub' conducted various events during the period July, 2016 to June, 2017. The 'Weekend Onsite Programming Workshop' on 17 September 2016 was a 4 Hrs. long programming workshop for beginners where 250 students participated and were given onsite training to use online programming portals e.g. CodeChef, HackerRank, etc. Further 'Encode 16.1' was conducted in two rounds: Online Round on 29 September, 2016 and Onsite Round on 1 October, 2016. It was an individual level competitive programming event, where students participated in the programming contest. 'Code Class Noob and Code Class Pro' were two, weekly programming workshops, designed for inexperienced and experienced students respectively, conducted in the months of September and October 2016 respectively. On 19 November, 2016, 'Execute 16.2' was conducted at national level, was a ACM ICPC styled programming competition where around 450 students participated. 'Knuth Cup 2017' conducted in two rounds during annual fest of JIIT, "Impression 2017" compromised: online (qualification round) at international and onsite at national level. On 26 February, 2017 a team based programming competition was organised namely 'Code Swaps'. In this event, each participant was supposed to solve the given set of problems. After 30 minutes positions/seats of team participants were swapped and they were supposed to continue the leftover codes of the other participant of the team. 'Code Runner' programming event was conducted on 27 February, 2017. 'Execute 17.1' conducted during the annual technical festival of JIIT, "Cyber Srishti – 2017"at national level on 22 April 2017 was a four hour long ACM ICPC styled onsite programming competition.

Creativity and Innovation Cell in Electronics (CICE)

Creativity & Innovation Cell in Electronics - CICE is a Technical club in JIIT that aims to teach and help people in understanding the seemingly incomprehensible electronic gadgets in the world today, and also assists people in developing their own devices.

It is a hub where student try to take innovation to a new level and actually implement the ideas practically in various formats. Various lectures, workshops as well as competitions throughout the year on both analogue as well as digital electronics keep the calendar busy and the participants, learning.

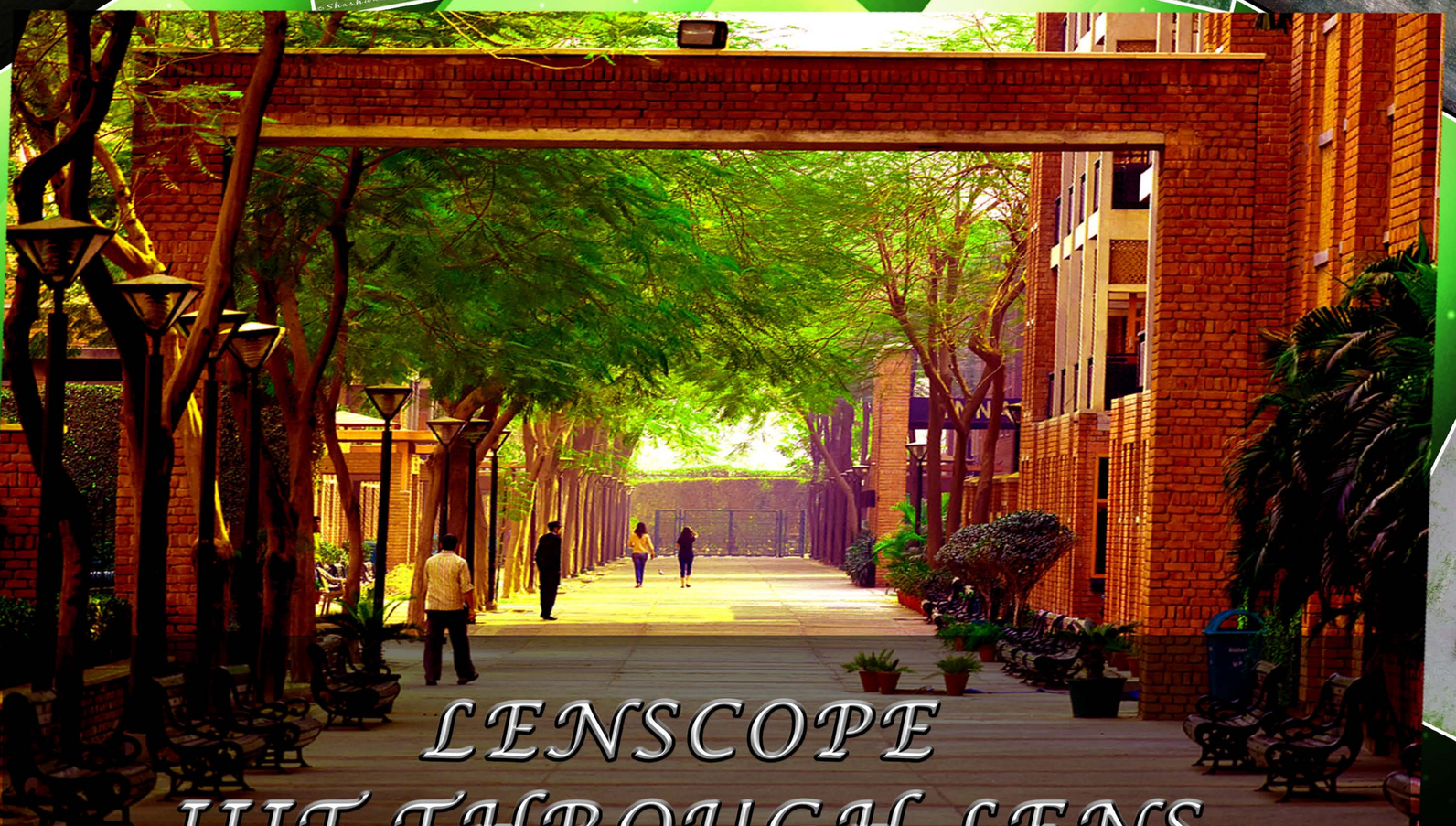
The whole idea behind this hub is to promote and implement innovative ideas through lectures and workshops.

S.NO	EVENT NAME	EVENT PERIOD	NO. OF PARTICIPANTS
1.	Wireless Communication Workshop	12 -17 January, 2017	150-160
2.	Seminar On Internet Of Things	16 January, 2017	140-220
3.	ElectroMania(TechParv 2017)	25 - 26 February, 2017	80-100
4.	CircuitHunt(TechParv 2017)	25 - 26 February, 2017	90-100
5.	AVR Microcontroller Workshop	11 -18 April, 2017	70-80
6.	Circuit Mania (CyberShrishti 2017)	22 - 23 April, 2017	130-150
7.	Project Exhibition (CyberShrishti 2017)	22 April, 2017	80-100

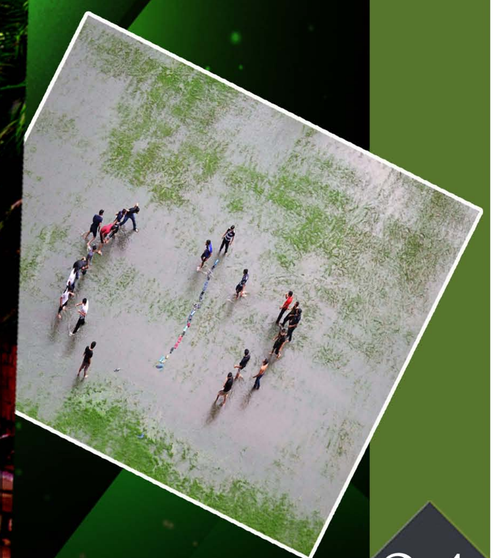
Ribose

RIBOSE- The Technical Hub of Biotechnology Department performed various technical and social activities from January 2017 to June, 2017. Year started with a Quiz competition – 'The Inquilab Catechize'(24 January, 2017). This initiative helped to bring to life the glorious past of our magnificent nation. Keeping similar notion, 30 January, 2017, witnessed a tribute to martyrs of war. The event named 'Farewell to Fighters' was organized outside Annapurna, where students, faculties and staff paid tribute by writing messages to commemorate Martyr's Day.

In 'IMPRESSIONS, 2017', the annual techno-cultuAral fest of JIIT, RIBOSE organized three different events. Keeping the theme of the fest in mind, RIBOSE, for the first time organized 'DAWN OF 90's.' To spirit out the ineluctable movie buff in the students the ever so interesting 'RETRO DUMBCHERADES' was organized. The second techno-cultural event 'BESQUEDA DEL TESORO' witnessed the clash of highly motivated and enthusiastic young brains by making them compete in an IQ and mystery solving competition. IMPRESSIONS, 2017 also witnessed the last and equally enjoyable event of the hub 'TARDIS INSIDE', where students got a chance to ace their creativity. In this students were supposed to play with words and dig out the knowledge from the retro movies, for solving the riddles.



LENSCOPE
JIIT THROUGH LENS



CONVERGE

CONVERGE is the annual technical, sports and cultural fest of JIIT-128 organised in the month of FEB. Its famous for its electrifying PRO-Nights which have featured the likes of MILLIND GABBA, DJ RAY, LOST STORIES, UPSIDE DOWN and many others. Its a 3 Day extravaganza filled with fun, competition and is an all out party! Working earnestly every year to make this possible is JIIT-128's Jaypee Youth Club mentor Mr. Alok Joshi.

FLASH MOB

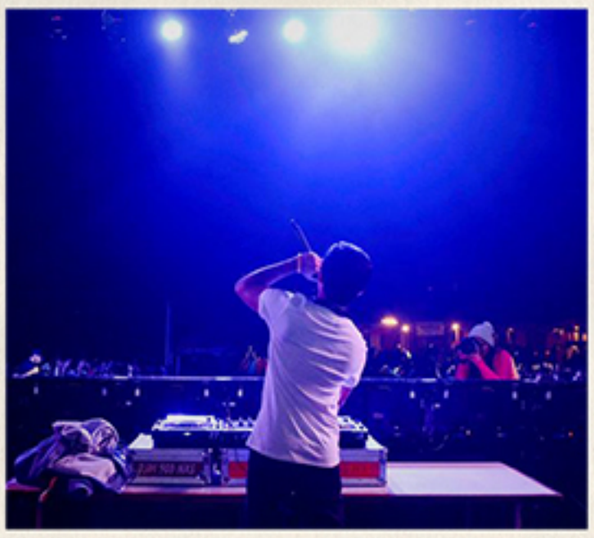
LAMP LIGHTING

YOUTH MARATHON

PANKHURI GIDWANI

ORGANIZING COMMITTEE

SPORTS FINALS



UPSIDE DOWN

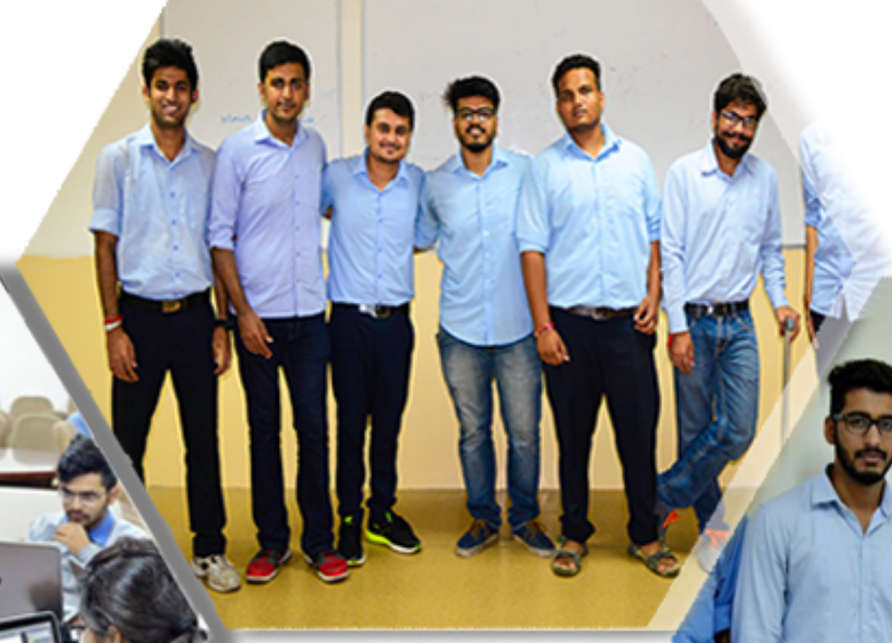
MILLIND GABA

LOST STORIES

25 Hub Activities

Prismatic

The Design Hub of JIIT 128, is one of the newly formed societies. It is a perfect platform for tech-savy youth of today to showcase their flair for design with the mouse. It has one of the most hardworking and talented bunch of individuals working diligently for its success.



Aakriti

The fine arts society of JIIT 128, is the most diligent society of the institute. With their creativity, artistic minds and skills they fill the Institute with beauty.

EcoQuence
The Environment Hub

All the members of EcoQuence devoted a lot of themselves preparing for the annual college fest – IMPRESSIONS 2017. There were three events in the college fest Make Your Blockbuster, Recyclathon and Eco-Carnival conducted between the time interval January 2017 to June, 2017.

All events were in accordance with the theme "RETRO" decided by the college organising committee. A lot of brainstorming efforts and hard work was done by each and every member of the hub in making this year events better than the last year. All the decorating material made by the hub were made from used items like old plastic bottles, cans, CD's, old newspaper, chart paper, cardboard boxes etc.

In the event "Recyclathon", the participating teams were provided with plastic bottles, ice-cream sticks paints,and brushes. The event required that after crossing all the hurdles, the teachers had to reach the end point and create a best out of waste from all the items with them.

EcoQuence aims to help students generate a more active interest in the environment by using both technical and creative ways. The hub communicates regularly with students in the college about the "Why's and How's" of sustainable living, on campus and beyond.

Jhankaar - The Dance Hub

The dance hub of JIIT is responsible for organizing all the inter and intra institute dance activities. The hub comprises of 3 teams

1. Khappi- The Bhangra team
2. Nrityaang - The indian dance team
3. Music Made Visible-The western dance team

During Impressions 2017, The hub organized the biggest three events of the whole techno-cultural fest with maximum participation from other colleges around Delhi - NCR. The events were, "Dance of Fame" the group dance competition, "Step Up", the solo dance competition and "Footloose", the on-the-spot dance competition.

BHANGDE DE SARTAJ

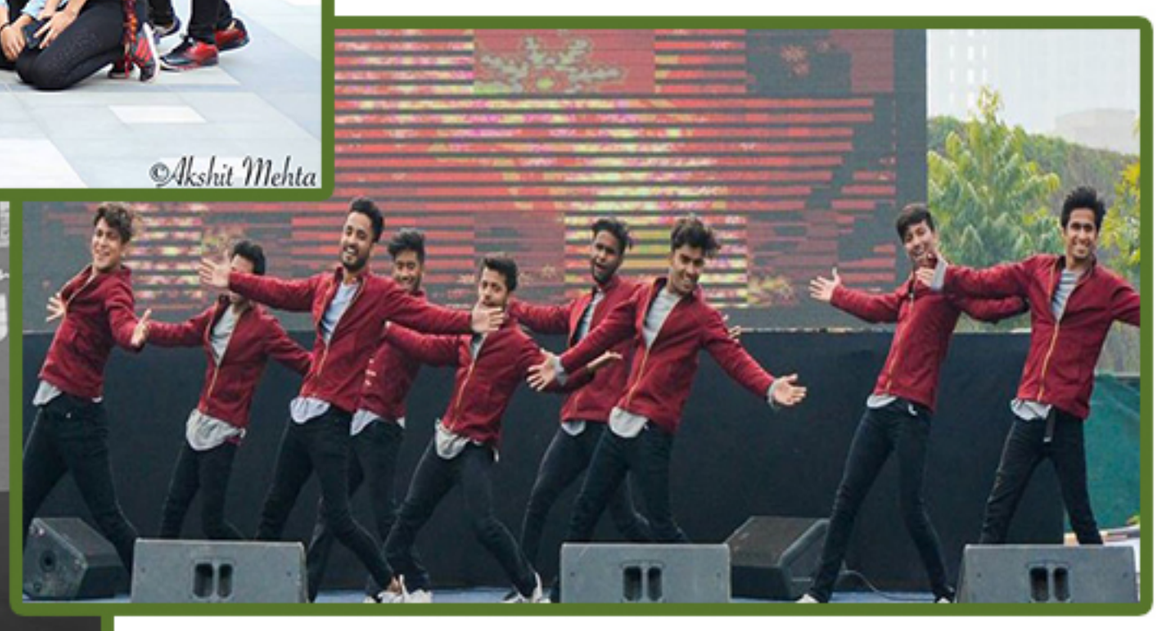
In the generation
of Western Dance,
Bhangde De Sartaj,
The Indian Dance Society
is trying to reconstruct
the forgotten belief in the
Indian Dance form.
It is trying to spread the
essence and love of
Punjabi's love for
exuberance amongest all
with their dance as an
unifying medium.

FORTISSIMO

FORTISSIMO, the music
society of JIIT 128
has a class of its own.
It provides an environment
full of melodious tunes
and posititve vibes.

VAMUNIQUE

VamUnique, The Western Dance Society of JIIT 128, takes an active initiative by participating in events within and outside the Institute. Additionally, the crew has regularly performed in INTRA INSTITUTE EVENTS.



ABHIVYAKTI

The dramatics society of JIIT-128 shows a combination of passion and creativity. It is focussed in bringing about a change and the change has begun.

Fun Sports Meet 2016 was conducted in the month of November, 2016 and witnessed a tremendous participation from the students of JIIT 62 as well as JIIT 128, Noida. The event witnessed an overwhelming number of registrations (1175) for 9 sports which took place in a span of around 1 week, and total participation was about 2000. Sports disciplines included cricket, basketball, football, volleyball, table tennis, badminton, chess, pool/snooker and Frisbee.

The prize distribution ceremony of FSM-2016 was organized on 8 May, 2017. The ceremony kicked off with inspiring words by the Vice Chancellor, Prof. S. C. Saxena and Cmde. K. K. Rohtagi, VSM (Retd) who boosted up the spirits of the students. Various cultural performances by the students kept the environment engaged and were highly cherished by the audience.

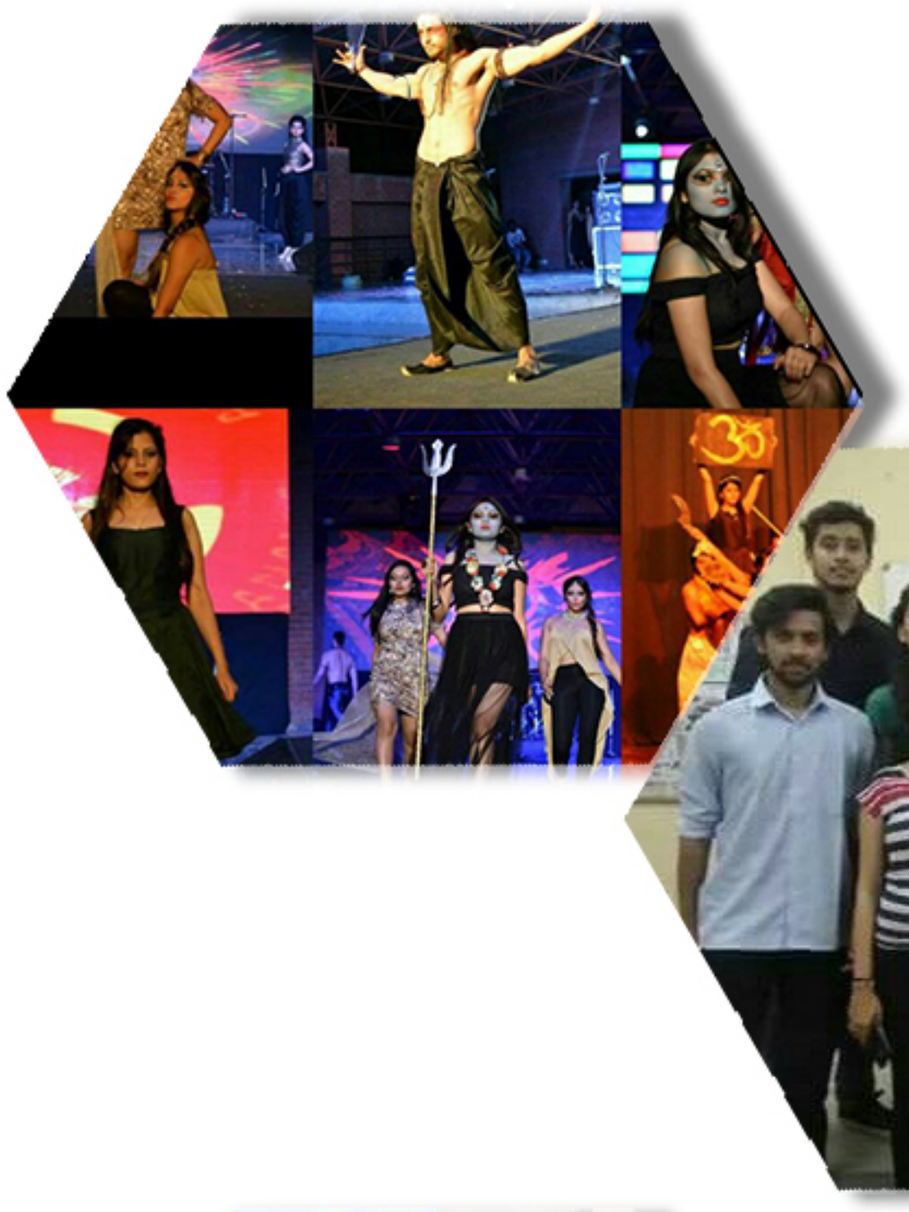
Volunteers were provided with the certificates for their contribution in making the event successful. The winners and runners up of all the sports were duly awarded with their medals and certificates as a token of appreciation for their brilliant performance in various sports. The ceremony ended with the heightened hopes and greater enthusiam of the students to participate in FSM 2017.

Sports Meet

Hub Activities

Panache

The Fashion Society of JIIT128, is a vibrant, stylish and dynamic platform provided to the students. The Society believes that "Style is a way to say who you are, without having to speak and Panache is just another accessory for someone with great style".



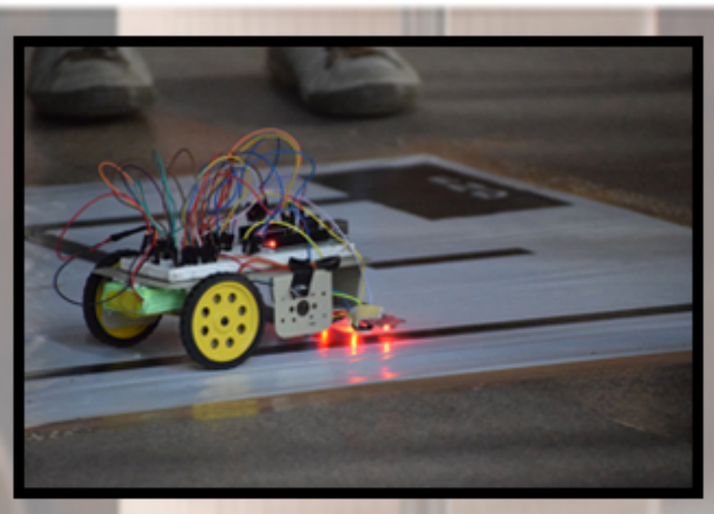
Rapid Programming Hub

Rapid Programming Hub is one of the most popular hubs of JIIT-128. Not only does it strive to encourage students continuously but also allow them to improve their programming skills. It also helps them to learn by organizing regular workshops and classes. Frequent ACM ICPC style competitions like AlgoFuzz are organsized.

Expressions- The Painting Hub

"Expressions", the painting hub of JIIT organized various activities during January 2017 -June 2017. The Annual Fest, Impressions 2017 (25-26 February, 2017) had 3 events organized by the Painting Hub namely, "BhoolBhulaiya", to identify a trail of clues based on famous dialogues. Followed by the event, "Caricature Booth", on the same day which was to Sketch or paint the given movie character. On the next day, "TasveerokiSher-o-Shayari", was organised where the participants had to sketch and paint according to the given movie dialogue.

Hub Activities



MICROCONTROLLER BASED SYSTEMS AND ROBOTICS HUB

Microcontroller based systems and Robotics Hub (µCR), is the Robotics hub of Jaypee Institute of Information Technology. The hub develops and promotes the interest of students in both manual and autonomous robotics. Our students have been performing exceedingly well not only in college events but also in the events organized by IITs, NITs and DTU.

The hub organized manual as well as autonomous events during the annual fest IMPRESSIONS and technical fest CYBER SHRISTI. The third and fourth years students conducted workshops for second and first years on their specialized fields and the traditions is passed on further to their juniors. In this process of teaching we also learn new things every day.

Events and Workshops Organized (January, 2017 - June, 2017)

- Organized Autonomous workshop (18 January, to 24 January, with a total participation of more than 300 students. Students were taught the basics of Arduino and coding on it to prepare an autonomous bot.

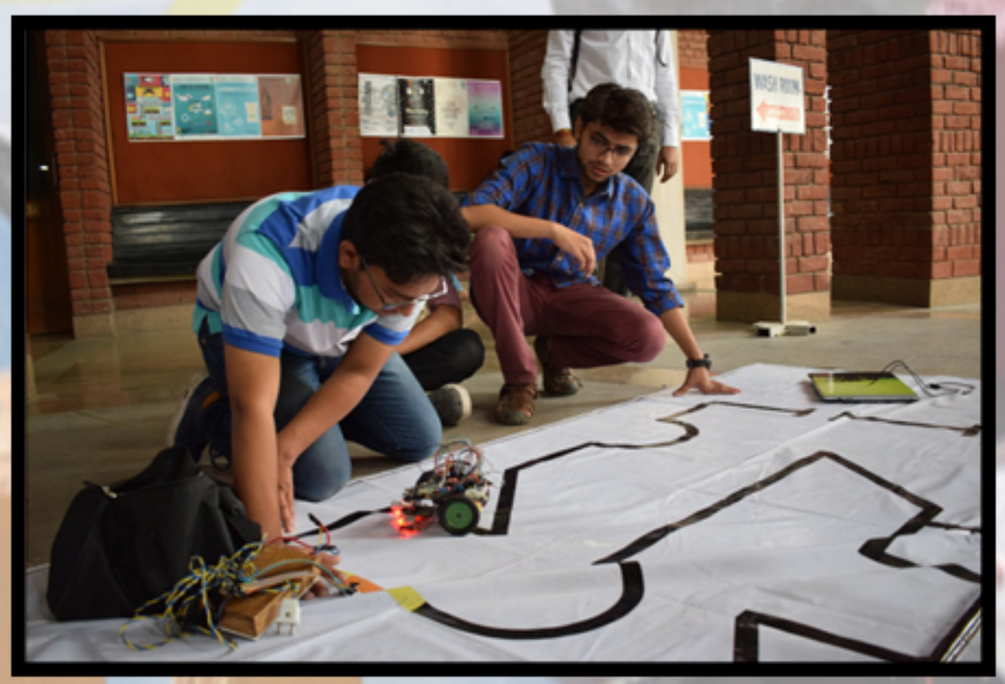
- Organized 'Monroe Maze', the autonomous robotics event on 25 February, 2017. 80 teams (around 320 students) participated with 4 students in each team. The competition was to design a bot capable to solve the given track.

- Organized 'Chakravhyuh', the coding event on 25th February 2017. at JBS Atrium. 25 teams (around 50 students) participated with 2 students in each team. The competition was divided into two rounds – the pen paper first and the coding round next in which algorithm was to be designed by the competitors for given maze.

- Organized 'Magna Basileus', the duel manual event on 26 February, 2017. 70 teams (around 280 students) participated with 4 students in each team. In this event the opposite teams had to fight with each other for its eternity.

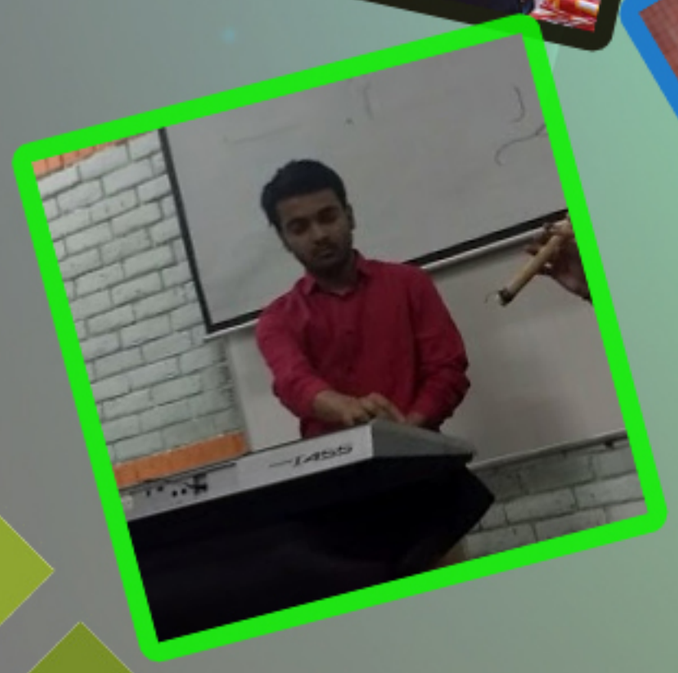
- Organized 'Carcerbrot', the manual robotics event on 26 February, 2017. 100 teams (around 400 students) participated with 4 students in each team. In this event the teams had to find their way towards the finish line.

- Organized 'Automated Robotic Challenged', the manual-autonomous hybrid robotics event on 23-24 April 2017. 80 teams with 4 members in each team (320 students approximately). In this event both manual and autonomous bot had to be constructed to solve the problem. The finish line can only be reached if the teams had operated both the bots properly.



Crescendo - The Music Hub

"Crescendo", The Music hub of JIIT organized various activities during January 2017- June 2017. The Annual Fest of the instiute, Impressions 2017, held on 25-26 February, 2017 had 3 events organized by the Music Hub namely- "Antakshari", a fun event that attracted mass participation from students of all years, who had to guess songs from given clues. The event took place through four rounds followed by Euphonium event which was introduced for the first time for all instrument players. Contestants ranged from Indian instrumentalists such as Flute, Tabla and Dholak players to brilliant Guitar and Keyboard players. A solo singing competition "Voice of Impressions" was organised by the hub that attracted participations from other colleges as well. The winners were awarded prize money along with other goodies.



Radiance Hub

Radiance Hub conducted stage events during Impressions 2017.

1. Mr and Ms Impressions 2017
2. Theme Walk
3. MINI STARS

The audience witnessed style, exhibition of talent by the students and faculty kids during these events.

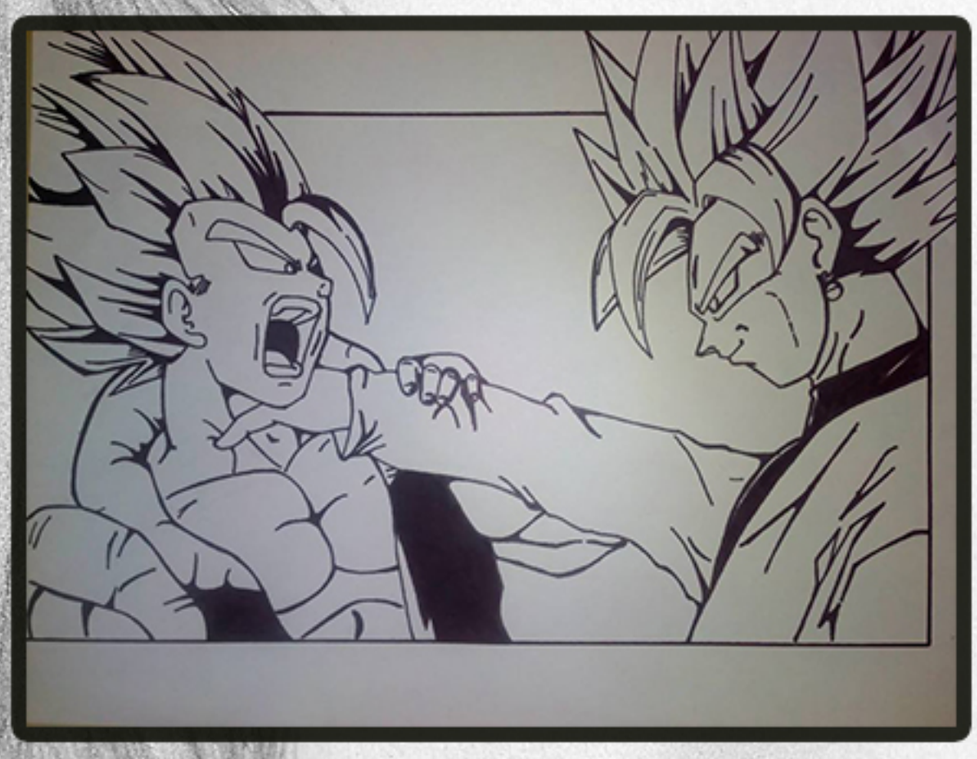
The events of Radiance came alive when the students presented themselves with great confidence.

These events focused at providing an opportunity to the students and little star kids to polish their skills by opening new vistas for them.

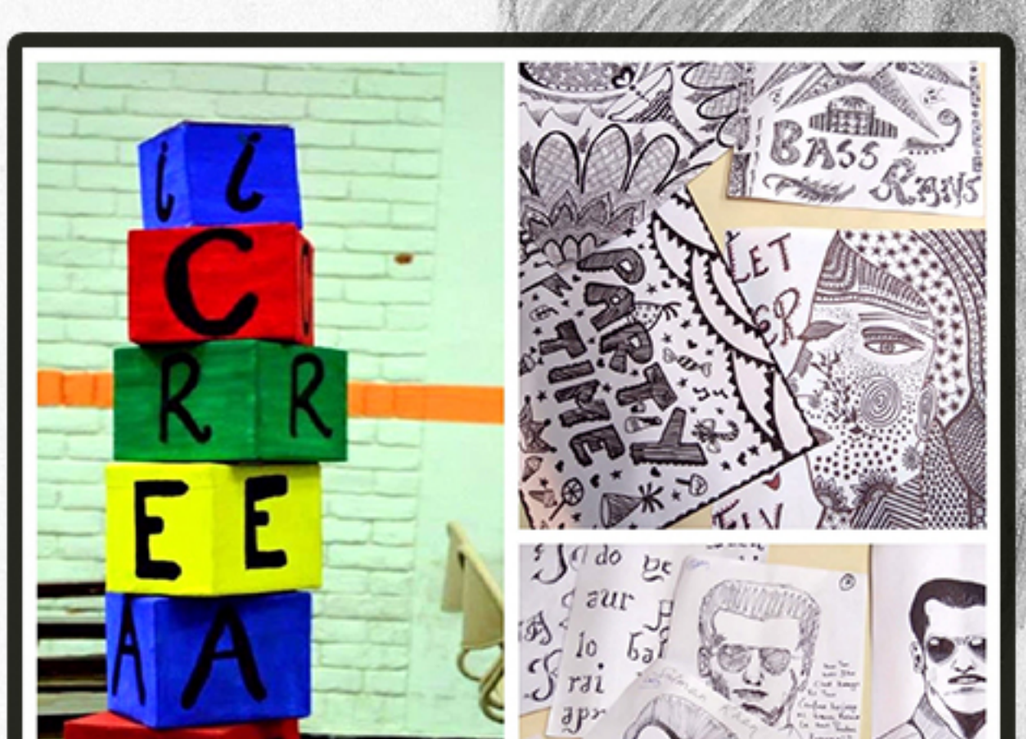
The presence of great audience ignited the passion of the participants for performing well.

ICreate

"Creativity is contagious, pass it on"
Albert Einstein



'ICREATE', Sketching Hub came into existence in 2011. The hard work and persistence of students has helped in organizing many successful events since its inception. ICREATE sketching hub is not just a hub where the students with great sketching skills can participate but it also supports and guides all those who want to develop skills in sketching. ICREATE also provides the opportunity to those students who used it to sketching and were really good but due to heavy work load and schedules are now not in a regular contact with their talent.



ICREATE provides a platform for all such people. Exhibitions and competitions organized by ICREATE have also experienced the contribution of various faculty members too. Some of the events organized by ICREATE are, 'Google Doodles', 'Better Half', 'Sketch the Set', 'Collage Making', 'Lamp Shadezz', 'Scribble Art', 'Model Your Town', 'Bollycally', 'Zentangle', and 'The Mystery Build' to name a few. I-Create organized Bolly Cally, Zentangle and The Mystery Build on 25 February, 2017.

It's Our Earth

It's Our Earth (IOE), formally registered as a student organization which cater to the needs of underprivileged people around the campus by providing items and consumables to them.

They create awareness by conducting workshops for such children on issues such as cleanliness, anti-begging, anti-drugs and importance of work; create sports and physical fitness awareness among such children by giving them opportunity to participate in competitive events; conduct activities to build logic and reasoning and enhance perceptual abilities of these children.

The following events were conducted by It's Our Earth (IOE), during the period of January to June, 2017- it was started by an 'article writing competition' on 19 January, 2017 which allowed participants to write their views on the various pressing problems of the society. It was followed by 'Quit weed and succeed' event on 2 February which allowed everyone to share their thoughts about the increasing consumption of drugs. The most successful event- 'Think!Wink! Act!' organised by the IOE team was a three round gaming competition for the JIITians at the first day of impressions on 25 February. 'Vamanos' the treasure hunt competition on 26 February, the second day of impression gathered the attention of a heavy crowd.

Social Activity Group

With sheer diligence and serviceability as a prime motive, JIIT has come up with a mission to assist children of economically weaker sections by imparting them basic education and general awareness through various means and resources provided by institute itself. The social activity group is currently organising regular visits on every Saturday for the underprivileged children residing in nearby areas of JIIT with the following objectives:

- Identifying their academic weaknesses and providing atleast two hours per week to these children for learning various subjects i.e. Hindi, English, Maths within the JIIT campus.
- Providing hands on practice session on computer and basic software like Microsoft Word, Excel, Paint etc in computer labs.
- Creating awareness among them about cleanliness and hygiene of self and surroundings.
- Transportation facility for pickup and dropping of children to and from the campus.
- Outdoor fun activities
- Conducting Sports Activities
- Collection and Distribution of Clothes/Stationary

The Social activity group is committed to including a few more endeavours listed below in the near future:

- Creating awareness among the students about road safety
- Tree Plantation
- Social Awareness Activities
- English Speaking Classes
- Special talks on Child labour, Child abuse and Dowry system.

Google Developers Group

</CODE>: DEBUG & SIMULATE

4TH Feb 2017

Over 50 students participated in this event held at JITT 128. It was a treasure hunt, where simple decoding takes you to different locations in the college and finally you find Pauline and save her !

GOOGLED ABOUT GOOGLE

5TH Feb 2017

Over 50 people participated in this event held at JIIT 128! It focused on how much one knows about the revolution called Google and its various labs, products, etc. in different rounds of this game which had questions in various styles. Each round offered an all-together distinct, puzzling, challenging, and equally intriguing task in itself!!

Marilyn's </CODE> HUNT

25TH Feb 2017

Over 150 students participated in this event. It was a treasure hunt, where simple decoding takes you to different locations in the college and finally you find Marilyn and save her !

GOOGLED ABOUT GOOGLE

25TH Feb 2017

Over 70 people participated in this event! It focused on how much one knows about the revolution called Google and its various labs, products, etc. in different rounds of this game which had questions in various styles. Each round offered an all-together distinct, puzzling, challenging, and equally intriguing task in itself!!

CODE LIKE AN EGYPTIAN

26 TH Feb 2017

Over 60 people participated in this event! They were given a piece of code which were written in ancient languages, the first one to solve it earned some super powers. Using these super powers ,one proceeded through the various levels. The one who survived all the rounds became the egyptian queen.

ANDROID APP DEVELOPMENT WORKSHOP @ JIIT Sec 128

17th – 20th March 2017

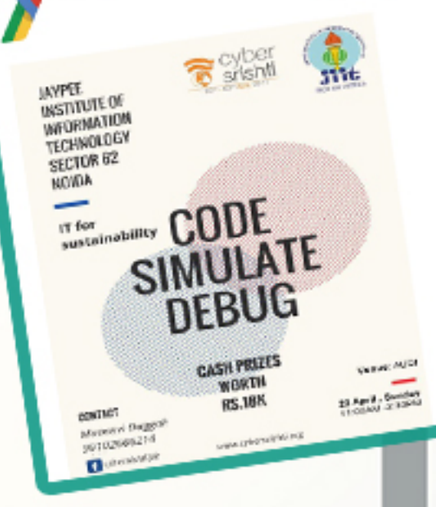
- Topics such as introduction to Java , Android Platform, Intent, Layouts, and installation were covered.
- A basic calculator app as built. Over 100 students came for the workshop
- We had our college tech gurus imparting their Android expertise to our enthusiastic audience.

CODE DEBUG & SIMULATE 2017

23rd April 2017

CODE,DEBUG AND SIMULATE

23rd April 2017



As the name says, participants needed to debug the website, design it by performing some tasks and develop it! Over 100 students participants experienced website designing in an all new avatar.

Jaypee Innovation Conclave 2017

IPR and Patenting Activities Committee, JIIT, organized a two day "Jaypee Innovation Conclave '17" (JIC'17) from 28 -29 April, 2017. The prime objective of the event was to recognise and showcase the hidden creative talents and innovative ideas of our students.
In this competition students from all the five Jaypee Universities presented their innovative Ideas. 46 teams participated in the competition, out of which 28 teams were from JIIT-62, 8 from JIIT-128, 5 from JUIT, Waknaghat, 4 from JUET, Guna and 1 team from JU, Anoopshahr. After the preliminary round of screening, from 46 teams, 20 teams were selected for second round of evaluation by external experts.
We strongly believe and hope that JIC'17 would be instrumental in evoking interest of other students to develop IP driven technologies for positive contribution towards society

The eminent experts included:

1. Mr. Arnab Kumar, Manager, Atal Innovation Mission, NITI Aayog, New Delhi
2. Shri. Sameer Swarup, Deputy Controller of Patents & Designs, Information Technology Division, Patent Office, Government of India
3. Dr. Bijay K. Sahu, Dy Manager-IPR, National Research Development Corporation (NRDC), an Enterprise of DSIR, Ministry of Science & Technology, Govt of India, New Delhi;
4. Dr Dilip Ranjan Das, Scientist, DSIR, Ministry of Science & Technology, New Delhi

Workers's Day - 2nd Jaunary

"Worker's Day is celebrated on 2nd January every year by all the workers in the Group Companies with enthusiasm and serenity. In keeping with the traditions, the "Worker's Day" on 02nd January 2017 was celebrated at JIIT Sector-62, Noida. The interest taken by everyone in organising the event was commendable and deeply appreciated which boosted the morale of the workers. The events took place in the order from hoisting of Flag in the front lawns at 09.15 a.m. by Hon'ble Vice Chancellor Prof. S.C. Saxena Ji which was followed by an 'Oath' taking ceremony solemnizing this day. The event ended with a speech of Vice Chancellor speaking about the efforts/work of the Founder Chairman, Shri. Jai Prakash Gaur Ji and a few points on the importance of workers in contributing towards the smooth functioning of day to day activities.

Paryavaran Sankalp Diwas

"Paryavaran Sankalp Divas" is celebrated every year nationwide on 3rd March to safeguard the environment and maintain cleanliness in the surroundings. On this day, all the citizens take an oath to protect the environment and giving their bit back to mother earth by stopping wastage of natural resources like water and fuel. Swachh bharat abhiyan is one of the most significant cleanliness campaign by the government of india which was joined by lakhs of government employees across the country which encouraged people to fulfill Mahatma Gandhi's dream of a clean and hygienic India. By inviting people to participate in the drive, Swachh Bharat Abhiyan has turned into a national movement, which evokes a sense of responsibility among the people through the clean India movement. With citizens now becoming active participants in cleanliness activity across the nation , the dream of clean India has begun to take shape. We all as a member of Jaypee group assembled at OAT at 5.00 PM to take the pledge and be a part of such a good initiative. This initiative was a contribution by the institute towards the bigger goal of "SWACHH BHARAT".

Holi

Holi, the traditional Hindu festival marks the welcoming of spring, celebrated with vigour and happiness by Indians across the world every year. Hindus believe that spring is full of colours so they play with colours and coloured water. It is believed that no one can harm the person who has God as his saviour. As per mythology, Prahlad came out of burning fire safely and Holika, the demon was burnt to death. Hence, the night before holi festival, a Holika bonfire is burned to celebrate the victory of virtue and goodness over evil.To celebrate this auspicious festival in our campus all the residents, students, members of faculty and staff were invited. The day's (13 March, 2017) celebration included playing with colors in the basketball court, leaving the students coated in colours by the end of the day.

Sir C. V. Raman

National Science Day

National Science Day is celebrated in India on 28 of February every year to commemorate the contributions of Sir Chandrasekhara Venkata Raman to Science & Technology. The National Science day theme for the year 2017 was "Science and Technology for specially-abled persons". JIIT, Noida, organized an event by displaying the projects related to Specially Abled Persons, carried out by students and faculty of JIIT on 28 Feburary, 2017. The day also saw presentations by Prof. Sanjay Goel, HOD, CS&IT on the topic, "IT for Assistive Technologies". In his words, "A very large population of nearly 15% people have to overcome the limitations imposed by their disabilities. According to the WHO, around 2-4% of world population experiences significant difficulties in functioning. Technology can play a very important role to make the world more inclusive and accessible. In this regard, IT mainly contributes in two ways to help the people with any kind of disabilities – by increasing accessibility of the existing spaces, artefacts, and systems; and by creating new tools and spaces. A deep sensitivity towards the needs of such people is very important for today's engineers and designers so that they can keep their requirements in mind while designing new spaces, products and services. Many student projects have been carried out at JIIT in both these directions. " A talk was also given by Prof. Sanjay Gupta, HoD, Biotech on the topic "Science and Technology for Specially Abled Persons". In his talk, Prof. Gupta discussed the significant role of Biotechnology research in empowering specially-abled persons. Biotech department at JIIT has generated 30 publications focusing on various aspects of medical biotechnology that have potential applications for the specially-abled. These projects were on bioinformatics aspects and data mining of genes implicated in neurological diseases like Parkinson's, nanoparticle-based delivery systems for epilepsy, transcriptome profiling of stem cells, neurotoxicity studies of specific chemicals, gene mutations in Alzheimer's, Leigh's syndrome, and plant therapeutics in neurodegenerative diseases .

Teachers Day

The issue of pollution is a key concern in today's world. So with this thought in our mind, On 5 September, 2017, on the auspicious occasion of Teachers' Day, "It's our Earth" hub organized an event "Planting a Sapling." Honourable Vice Chancellor, Professor S C Saxena, planted a sapling and many dignitaries and teachers participated in the event.

Dr Sarvepalli Radhakrishnan

All Things Gone Wrong

When midnight falls and silence
echoes through the city.
When everybody gives in and
shadows fly away.
When the ticks of a clock pierce
like arrow and darts.
All I am left with is me, slepless
like an owl in the dark.
I wander all the streets with right
and wrong in my mind,

Photo Credits: Sun Kaushik

Right seems rather old but wrong
feels new,
If it hadn't been for wrong, I would
still be among the few.
I pulled all the wrong strings but
composed a symphony I can call mine.
I collected all the wrong words but
wrote something just fine.
I mixed all the wrong colors only
to see if they go together.
I treaded all the wrong roads against
the heavy weather.

What is right or what is wrong, I do not know.
What we reap is just we sow.
Wrong as it may seen, but now it's done.
Taking all the wrong decisions, this
far i've come.
A long way from home and a long
way to my destiny.
In the middle I stand and all this
wrong with me.
I did all things wrong and now it's
time I set it all right.
The last lesson I need is in the last
wrong decision I'll light.

Written By: Yash Airon

Looking through my Closed Eye

It's a sunrise when I lay down,
A trip begins in my closed eyes.
I see an impeccable world,
Where races break ice,
And humanity makes ties.
A tie of togetherness,
And hatred's penultimate.
A vision common to black and white,
Living under one roof called sky.
I see an incredible world,
Where distance is just on maps,
And relations bigger than gaps.
A world that follows one religion,
The religion of love,
Where people cultivate its seed,
And give birth to heaven,
on the earth.

Written By: Saommya Kesarwani

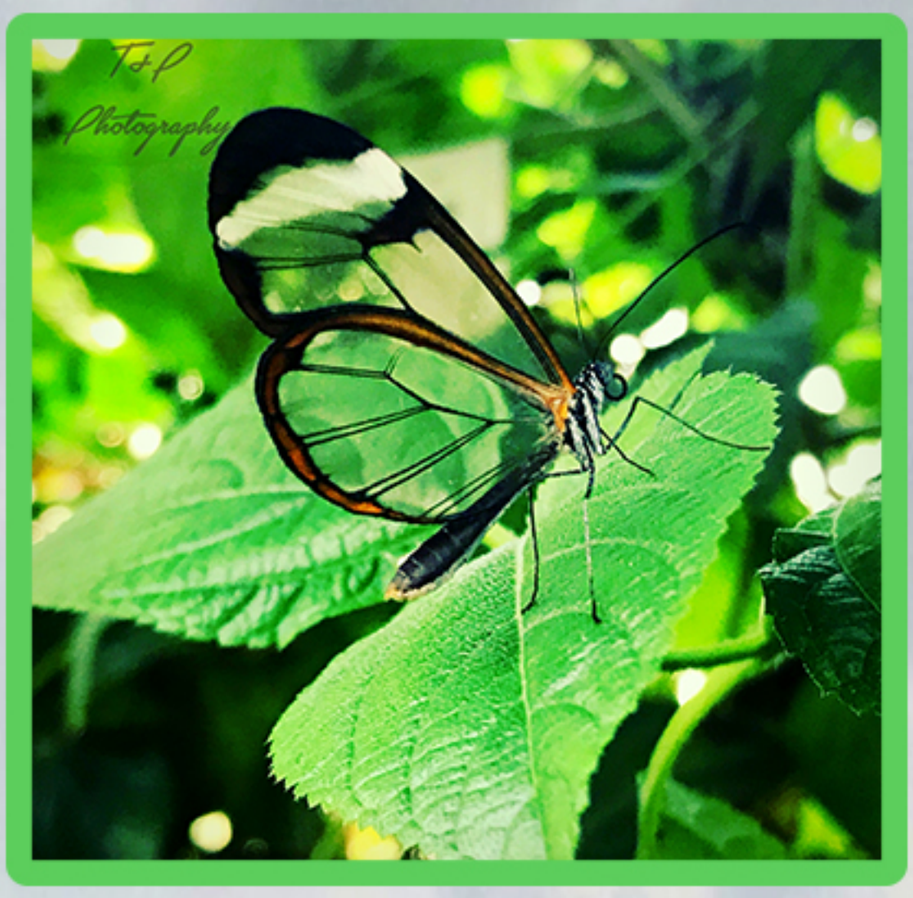


Photo Credits: Tanya Gupta

Photo Credits: Shivank Dwivedi

Photo Credits: Mahak Sharma

Transform Within

Wrinkled face, she now looks at you,
Yet no regrets, left with you?
Still thought, would look pretty,
Yet, mirror had no idea of pity.
Her hopes stayed forever in veil,
Yet, karma wasn't on season sale.
Hoax were expectations, she felt
Yet, waited long for things to melt.
No echo heard anywhere,
Yet, decided to stay now and here.
Still not made, but stood chinned up,
Yet, many things to fight for, up.
Then discovered, to transform within,
Yet, 'out' wouldn't remain hidden.
Smudged kohl, she now wore,
Yet beautiful dreams, inside she bore.
Scribbled heart, she was left with,
Yet beautiful feelings, wasn't a myth.
Scraped soul, she now only had,
Yet beautiful thoughts, drove away sad.
Not all you see, rule inside;
Yet, many things, to conquer beside.
...Many things to conquer beside.

Written By: Anuksha Jain

Mark Your Calendar

Forthcoming Events

12 December, 2017 to 14 December, 2017
International Conference on Recent Advances in Mathematical Sciences and its Applications
RAMSA 2017

31 January, 2018 to 03 February, 2018
International Conference on Advances in Biosciences and Biotechnology
ICABB 2018

15 March, 2018 to 17 March, 2018
National Conference on Advanced Materials and Nanotechnology
AMN 2018

21 March, 2018 to 23 March, 2018
International Conference on Signal Processing and Communication
ICSC 2018


GOLMAAL
DARE
SORRY
OOPS!!
LET'S TRY AGAIN


You Don't
Need HEROIN
To Be A Hero!


ADITYA SWAMI
STUDIO


© abhishek clicks


I ELECT
TO BE
DRUG
FREE!!

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY

NOIDA