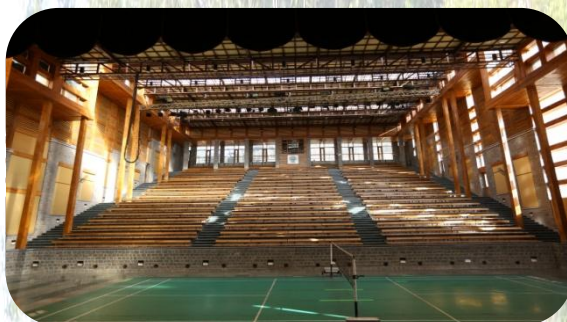


# HILLY RAMBLINGS

Volume 7 | Issue 2 (November 2017 – February 2018)



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Celebrations	Outreach events	T & P	Students' Achievements
Faculty in spotlight	PARAKRAM	Murious XII	Intellectual Capital



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4<sup>th</sup> ICIIP (December 21 -23, 2017)

# IMAGE INFORMATION PROCESSING

The ICIIP (International Conference on Image Information Processing) conference has been a biennial Conference of Jaypee University of Information Technology (JUIT), Waknaghat, Solan, H.P., India since 2011. It is being organized with sponsorship of IEEE. 4<sup>th</sup> ICIIP 2017 was organized by the Department of Computer Science and Engineering & Information Technology on December 21-23, 2017. This time, theme of the conference was '*Image Processing for Digital Life*'. The Inauguration of the event was blessed by the following dignitaries:

- Prof. R. K. Sinha, Director CSIO, Chandigarh - **Chief Guest**,



- Prof. K.K. Agarwal Founder VC of GGSIP University Delhi - **Presiding chair**,
- Prof. Vinod Kumar - **Vice Chancellor JUIT**, and
- Prof. Samir Dev Gupta - **Director and Academic Head JUIT**.

ICIIP 2017 had following keynote speakers from various reputed universities;

- **Prof. Joaquim Jorge** - Instituto Superior Técnico (IST/UTL), Technical University of Lisboa, Portugal
- **Prof. Lipo Wang** - Nanyang Technological University Singapore, Singapore
- **Prof. KK Shukla** - IIT BHU, India
- **Prof. MaheshKumar H Kolekar** - IIT Patna, India.

ICIIP 2017 received 515 submissions from 15 different countries and after completion of rigorous peer review process, Technical program committee has selected 155 quality papers with an acceptance rate of 30%. The event was attended by more than 145 authors from different International and national institutions that include



University of Kwazulu Natal, Durban, South Africa, North West University China, University of Luxembourg, Luxembourg, University of Cape Peninsula, Capetown, South Africa, Samsung Japan, SLIIT Sri Lanka, FILKOM Indonesia etc. and Indian Institutions like IISc, IIT BHU, IIT Kharagpur, IIT Mandi, IIT Delhi, IIT Jammu, IIT Jodhpur, IIT



Roorkee, IIT Roopar, IIT Bhubaneswar, IIT Patna, IIT(ISM) Dhanbad, Jadavpur University, University of Mumbai, CDAC, TCS, CSIR-CSIO, NIT Kurukshetra, NIT Goa, NIT Jalandhar, NIT Rourkela, NIT Srinagar, NIT Hamirpur, BITS Pilani, NIT Warangal, NIT Delhi, Infosys, NIT Uttarakhand, SVNIT Surat, DRDO etc.

ICIIP 2017 was continuously monitored by the **Principal General Chair** – Prof. S.P Ghrera, **Executive General Chair**



– Prof. P K Gupta, **Conference Co-Chair** – Prof. Vipin Tyagi (JUET Guna), **Technical Program Committee chairs** – Prof. R C Bansal (University of Pretoria, South Africa), and Prof. V. M. Srivastava (University of Kwazulu Natal, South Africa). ICIIP 2017 has selected 14 papers for best paper awards under different categories like Best Paper (Overall), Best Algorithmica award, Best Thematic Paper, Best paper (Track), Best Paper (Session).



1st FTNCT (February 09 -10, 2018)

# FUTURISTIC TRENDS IN NETWORK AND COMMUNICATION TECHNOLOGIES

Computer Science & Engineering department successfully hosted 'First International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018)' in association with ACM JUIT Chapter, Technology Innovation and Entrepreneurship Development Cell (TIEDC) and CSI Chandigarh Chapter held on



February 9-10, 2018. FTNCT received a total of 252 paper submissions. After a rigid peer review process, 48 papers were selected for publication in Springer CCIS series and extended papers in special issues of ESCI/- SCOPUS/WoS/DBLP/ACM indexed Journals as per the guidelines of respective journal. Prof. Gonsalves, Director IIT Mandi, Sh. Kunal Satyarthi, EC & JMS HIMCOSTE,



"Alexandru Ioan Cuza" Police Academy, ROMANIA, Dr. Jitender Kumar Chhabra, Department of Computer Engineering, NIT Kurukshetra, INDIA, Dr. Abhijit Sen, Computer Science and Information Technology, Kwantlen Polytechnic University, CANADA were notable names for keynote lectures. The conference was coordinated by Dr.



Dr. Sanjay Sood , Jt. Director CDAC Mohali, Dr. Pljonkin Anton Institute of Computer Technologies and Information Security, Southern Federal University, RUSSIA, Dr. Ioan-Cosmin MIHAI, Dr. Jitender Kumar Chhabra, Department of Computer Engineering, NIT Kurukshetra, INDIA, Dr. Abhijit Sen, Computer Science and Information Technology, Kwantlen Polytechnic University, CANADA were notable names for keynote lectures. The conference was coordinated by Dr. Pradeep Kumar Singh, Assistant Professor, Department of CSE & IT.



November 6-7, 2017

# WORKSHOP ON IMPLEMENTATION AND APPLICATIONS OF DIFFERENT SENSORS USING LABVIEW

The Department of Electronics and Communication Engineering organized a two day workshop (hands-on) on *“Implementation and Applications of Different Sensors using LabView”* by the experts from ARK Infosolutions Pvt. Ltd., Pune, India on **November 6 - 7, 2017**. It was conducted by Mr. Ranjan Sharma and Mr. Ameya Uday Munde.

ARK Infosolutions is a leading value-added distributor for Technology Products in India with the core belief in improving the lives of people by empowering them. Presently, ARK Infosolutions Pvt. Ltd. is a niche player and a leading value added distributor for Technology

Products in India with its world-class team and performance excellence for the industry segments like Animation, Architectural Engineering & Construction, Gaming, Graphics Design, Manufacturing, Mechatronics, Product Design and Robotics. The company partners with clients in achieving effective solutions to meet the inherent challenges of its client's critical business processes.

The faculty members, Lab staff, Research Scholars, and M.Tech students have attended the workshop and interacted with the experts enthusiastically.





November 16 – 17, 2017

# WORKSHOP ON ENGINEERING AND ENTREPRENEURSHIP A STEP TOWARDS FULFILLING DREAMS

A two day workshop on "*Engineering and Entrepreneurship*" was conducted by Technology Innovation and Entrepreneurship Development Cell (TIEDC cell) in Jaypee University of Information Technology, Waknaghat, Solan (H P) on **November 16 – 17, 2017**. The workshop was designed for youths who wish to pursue entrepreneurship as a gainful engagement career choice. The workshop was totally free of cost including accommodation and meals with more than 70 registrations from other universities. The Honorable speakers in the

workshop were: Dr. Vinay Kumar (Thapar University Patiala), Dr. Anita Sharma (Thapar University Patiala). The content of Program were: Personality and teams, Idea Generation, Value proposition and example of value offers (In General), Development of Value proposition (In particular), Creating and Developing their Canvas, Pitching Your Ideas with Canvas. About 60 Participants in ten groups participated in the workshop and the best two groups were awarded with cash prize of Rs. 3000/-each. The workshop was attended by more than 60 students.





November 17, 2017

## WORKSHOP ON vLabs



An MHRD Govt of India Initiative

A Virtual Labs (vLabs) workshop was successfully conducted in November 17, 2017 at the JUIT campus. The workshop was organized in two sessions. In which



111 students of B.Tech first year were participated. The expert team of Indian Institute

of Technology, Delhi comprises with Mr. Ashish Ranjan and Mr. Ashish Mudgil provided hands-on training. Some of experiments from the basic virtual laboratories and RTLs were explained and carries out by the expert team members.



January 20, 2018

## WORKSHOP ON BIRAC BIOTECHNOLOGY IGNITION GRANT (BIG) SCHEME

Department of Biotechnology and Bioinformatics organized a workshop on 'BIRAC Biotechnology Ignition Grant (BIG) Scheme' on January 20, 2018. The purposes of conducting this workshop were to support projects that aim to establish or validate proof of concept for a promising and innovative technology idea. And, to promote the creation of new start-ups based on innovative technology ideas and/or to support early start-ups to establish and validate their technology ideas up to the POC stage. Dr. Udayan Chandra, In-charge of DBT-BIRAC (Biotechnology Research Assistance Council) was the key speaker of the workshop. Dr.



Chandra highlighted that the BIRAC BIG Scheme enables technology innovators and entrepreneurs to pursue a promising technology idea, and establish and validate proof of concept (POC) for the idea. By funding establishment and validation of POC, BIRAC wishes to help innovators and entrepreneurs advance an idea closer to eventual commercialization/implementation in the form of technology licenses or creation of start-up companies or raising investments for the company. The scheme aims to support high-risk technology ideas with considerable potential for impact.





# WORKSHOP ON ARTIFICIAL INTELLIGENCE AND ENTREPRENEURSHIP



learning in Artificial Intelligence were also discussed. The seminar involves topics of skills, knowledge, public speaking, technical skills, etc. It includes motivational stories of “Outliers”, which covers the success stories of Bill Gates, Jeff Bezos, Steve Jobs, and Bill Joy and how they pitched up the right topic at right time. The seminar, attended by JUIT students, aware the audience about the need of entrepreneurship and role of AI in it. The brainstorming session made everyone feel confident to realize the field in which they want to pursue their career.







February 9, 2018

## WORKSHOP BY 'BULLS EYE'

One day workshop on the JUIT campus organized by 'Bulls Eye' on February 9, 2018. The 'Bulls Eye' which provides coaching in MBA, CAT, GRE, GMAT. In the workshop, the 'Bulls Eye' team trained B-Tech third year students of ECE, CSE and IT departments.

About 200 students attended the workshop. Mrs. Guneet Kaur gives training to the

participating students about the various career options after their graduation. She explained how to prepare for their interviews, what is the current demand of skills in the working sector and how to prepare for succeeding in exams like CAT/GMAT/GRE, etc. The workshop was coordinated by Dr. Shruti Jain, Associate Professor, ECE department of the university.

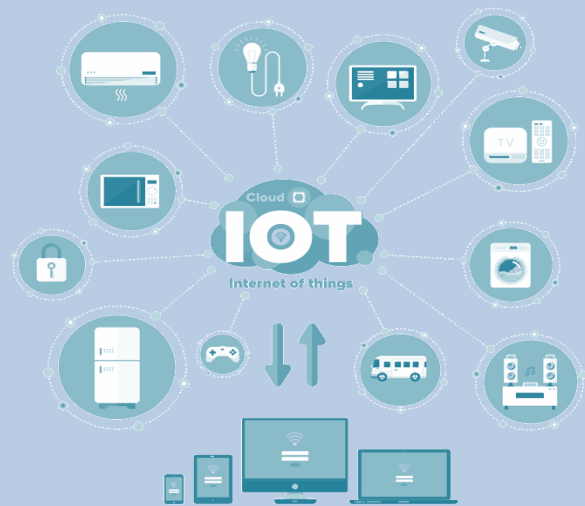




February 12, 2018

## WORKSHOP ON INTERNET OF THINGS

One day Workshop on “Internet of Things” was conducted on February 12, 2018 by CDAC, Mohali under the expert guidance of Ms. Harsimranjeet Kaur and her staff. They briefed the students about what is Artificial Intelligence, various scopes and future in this technology. How Artificial Intelligence is going



to become a part of our daily routine? They provided the students with working kits which consisted of Arduinos with Wi-Fi module on which students practically worked and learnt the different applications with the help of programming on different software.



November 11 – 12, 2017

## HACKATHON- #SMART CITY

The theme of Hackathon was 'Smart City', inspired by smart city mission of the Govt. of India. It was a 28 hours live event starting on November 11, 2017 and open for all. Participants were supposed to create software/hardware applications which when implemented in real life would simplify life, solve problems and make the city smarter. On 12<sup>th</sup> November evening, all the 120 students were ready with their projects and presentations, which were judged on various parameters by Ex- Deputy Mayor Mr. Tikender Singh Panwar, Faculty Coordinator Dr. Pradeep

Kumar Singh and Dr. Punit Gupta.

The top 10 teams were rewarded with cash prize of ₹51,000. The top position was secured by team 'T-@rt (Technical Art)', who presented the idea of automated street lights. The runner up team was '2Lazy', who presented an application 'Go Easy- which tells about the real time crowd at a place'. Other ideas like pothole detector, smart dustbin, medicate were highly appreciated.

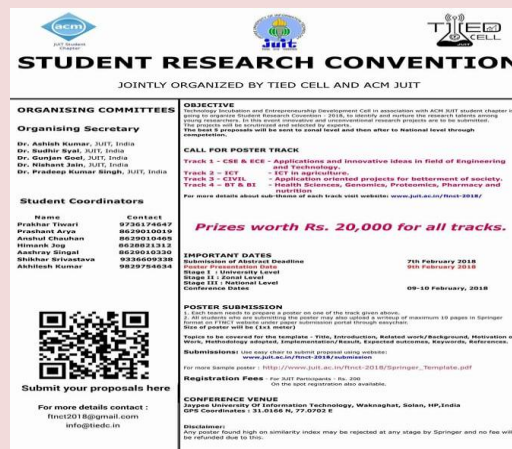




February 9, 2018

# STUDENT RESEARCH CONVENTION 2018 (SRC-2018)

A Student Research Convention to execute the novel ideas from different branches of Engineering was jointly organized by Technology Innovation and Entrepreneurship Development Cell (TIEDC), JUIT and ACM, JUIT student chapter during February 9 -10, 2018. Aim of the convention was to identify and nurture the research talents among young researchers. For this total of 22 projects were accepted for poster presentation under 4 tracks: CSE&ECE, ICT, Civil, and BT & BI. These posters were judged by Dr. Yashwant Singh, Associate Professor, Department of Computer Science and IT, Central University of Jammu; Dr. Sanjay Sood, Jt. Director CDAC Mohali, Dr. Jata Shankar, Associate Professor, BT and BI Department, JUIT; Dr. Udayabanu, M, Assistant Professor, BT and BI Department, JUIT; and Dr. Harsh Sohal, Assistant Professor, ECE Department, JUIT. They judged the projects for the following five points: (i) Clarity in the idea,



The poster for the Student Research Convention 2018, jointly organized by TIEDC and ACM JUIT, provides detailed information about the event. It includes the objective of the convention, a call for poster tracks across four categories (CSE & ECE, ICT, Civil, and BT & BI), and a list of prizes worth Rs. 20,000 for all tracks. Key dates for poster submission and the convention itself are listed. A QR code is provided for more details, and the conference venue is specified as JUIT, Jammu.

**STUDENT RESEARCH CONVENTION**  
JOINTLY ORGANIZED BY TIED CELL AND ACM JUIT

**OBJECTIVE**  
To provide a platform for students to present their research projects and to identify and nurture the research talents among young researchers.

**CALL FOR POSTER TRACK**  
Track 1 - CSE & ECE - Applications and innovative ideas in field of Engineering and Technology  
Track 2 - ICT  
Track 3 - CIVIL  
Track 4 - BT & BI

**Prizes worth Rs. 20,000 for all tracks.**

**IMPORTANT DATES**  
Poster Submission Deadline: 7th February 2018  
Poster Presentation Date: 9th February 2018  
Registration Fee: 500/-  
Poster Presentation Date: 9th February 2018

**POSTER SUBMISSION**  
1. All posters must be submitted on the day of the track paper session.  
2. All posters must be submitted in the form of a hard copy and a soft copy (PDF file) of maximum 10 pages in Springer format (A4 size) and the file must be submitted in the form of a PDF file.

**Submit your proposals here**  
For more details contact : [info@tiedc.in](mailto:info@tiedc.in)  
For more details contact : [info@tiedc.in](mailto:info@tiedc.in)

(ii) Innovation in the idea, (iii) Importance of the problem, (iv) Commercial Potential, and (v) Feasibility. Based on the total points scored, best three projects were awarded in each track. First awardee was given a coupons of Rs 2500/-, second awardee was given a coupons of Rs 1500/-, and third awarded was given a coupons of Rs.1000/-.





## EXPERT LECTURES

**Prof. Yosi Shacham Diamand, Faculty of Engineering, Tel Aviv University, Israel**  
Spoken on “A Study on Various Nanoparticle Based Bioelectrochemical Sensors”  
December 12, 2017

**Prof. Yosi Shacham-Diamand**, Professor of Electrical Engineering and ‘The Bernard L. Schwartz Chair’ for Nano-Scale Information



Technologies from Department of Electrical Engineering - Physical Electronics and the Department of Material Science and Technology, Faculty of Engineering, Tel Aviv University was in JUIT for an expert lecture. His topic of discussion was ‘a study on various nano-particle based bio-electrochemical sensors’. The entire lecture was very enlightening and triumphant, because it has ignited spark and hope of contributing towards the field of bio-electrochemical sensors in all



audience. Prof. Yosi has talked about different kinds of bio-electrochemical sensors such as Amperometric, Potentiometric, Impedimetric and immune-sensors their concepts basic electrochemistry and related problems to achieve the final device.



Faculty members, research scholars, undergraduate and post graduate students from the Department of Physics and Materials Science, Department of Biotechnology and Bioinformatics and Department of Electronics and Communication Engineering were attended the lecture.



## OTHER GUEST LECTURES AT JUIT

S.No	Name	Date	Topic	Department
1	<b>Prof. K Balamugan</b> , Department of Biotechnology, Alagappa University	27 Feb 2018	Applications of C. elegans as an in-vivo model in biological research	BT&BI
2	<b>Dr. Debasis Pattanayak</b> , National Research Centre on Plant Biotechnology (IARI, New Delhi)	16 Dec. 2017	Plant Genetic Engineering: present status and future trends'.	BT&BI



November 4 – 5, 2017

## PARAKARAM - 2017

The two day sports extravaganza, Parakaram 5.0 was started on 4<sup>th</sup> November 2017. The teams from 15 other universities and institutions were participated in the event. The Parakaram 5.0 was inaugurated by Hon'ble Vice Chancellor of JUIT Prof. Vinod Kumar. After the lamp lighting ceremony a pledge about fair play and inculcating high team spirit among all participants was also taken by captains of all teams. Students were seen in full enthusiasm and zeal throughout this JUIT annual sports meet. The whole campus of JUIT witnessed a different spark and glow on every face for the next two days. As the teams started facing each other, the students began to cheer for the teams they supported. The 'Mughal Garden' was occupied by the food partners and they hardly got time to breathe. The event ended on a good note on 5<sup>th</sup> November 2017. The winner and runner up teams were awarded at the closing ceremony by Maj. Gen. Rakesh Bassi (Retd.), Registrar of JUIT.



## PARAKARAM – 2017 CHAMPION CHITKARA UNIVERSITY, RAJPURA



The results of various games are highlighted in following tables

Game	Catg.	Winner	Runner UP
Table Tennis	Girls	Chitkara University, Rajpura	Zakir Hussain College, Delhi Uni.
	Boys	UIET, Panjab University	PG DAV, Delhi
Basketball	Girls	Thapar University	Jaypee University of Information Technology, HP
	Boys	Chaudhary Ranbir Singh University, Jind	Chitkara University, Rajpura
Volleyball	Girls	Chitkara University, Rajpura	Jaypee University of Information Technology
	Boys	Maharaja Agrasen University, HP	Maharishi Markandeshwar University, HP
Handball	Boys	Jaypee University of Information Technology, HP	Baddi University
Chess		Chitkara University, Rajpura	
Badminton	Girls	Chitkara University, Rajpura	Jaypee Institute of Information Technology, Noida
	Boys	Chitkara University, Rajpura	Jaypee Institute of Information Technology, Noida





November 19, 2017

## GOONJ

The Cultural club in association with the Music club and Arts Club of JYC organized a musical night on November 19, 2018. The event has been providing a platform for the enthusiastic musicians and performers of JUIT for the last few years. This year again the event has a major participation of the thriving talents! As is the

ambience of JUIT main Auditorium during the cultural nights, the spell of the event grew, not only with love, but also with the reverberating music. Each song kept the spirits of the audience elated. Goonj – one of the most awaited events, once again proved its worth by making audience happy and cheerful.





February 10-12, 2018

## MURIOUS XII

The Technical Fest of Jaypee University of Information Technology, Murious XII was organized by CREATECH in collaboration with IEEE-JUIT Student Branch and ACM-JUIT Student



Chapter. The three day fest was organized during February 10 – 12, 2018. Dr. Shruti Jain was the Chairman, Dr. Pradeep Kumar Singh was Technical & ACM Coordinator, Dr. Meenakshi Sood was IEEE JUIT student branch coordinator, and Dr. Vivek Sehgal was JYC Head



of the three day event. Murious XII began with the cultural night, "Synchrotron" on 10th February 2018. The night included various dance performances like bhangra, naati,

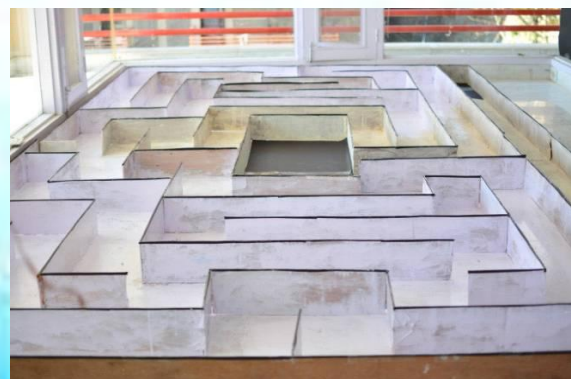


western etc.

The night marked the beginning of the technical events on 11<sup>th</sup> February 2018. Various Tech Talks were organized by different eminent



members. Mr. Sanjay Sood (Joint-Director CDAC, Mohali), Dr. J.K. Chhabra (Professor CSE Deptt. NIT Kurukshetra), and Dr. Pramod Shrestha (Nepal's first Professor in Mechanical Engg.) motivated students by their innovative

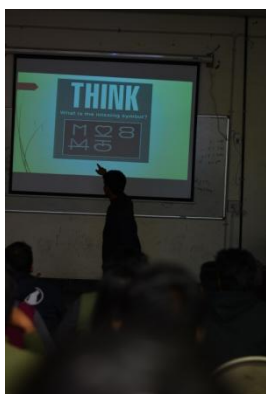




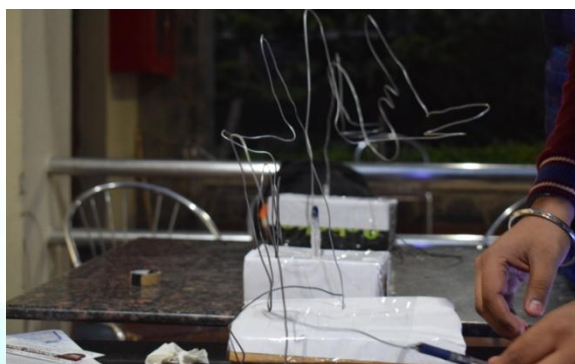
ideas and discussions.



Various events were also conducted on the second day of Murious XII. Jeopardy Quiz, the brainstorming event for the students who want



to exhibit the knowledge at the right time and in the right place. Many fun events such as Virtual Cricket Auction, Maze of Lethe, Robo pin, etc. were also conducted which saw a huge participation of the enthusiastic students. For the students, mock placements were organized in order to aware students or to give an idea about the placements.



Many robotics events such as Robo Race, Electrophile, Maze Bot were organized on 12th February 2018. In Robo Race the bot was supposed to overcome all hurdles in the minimum possible time. In Robo Soccer, soccer

was played by the wireless bots. In maze bot,



the maze solving skills of the participants were taken to the next level where the participants were to escape the maze with the bots in minimum possible time. The events Codez and



HackerCup. These events helped the participants to show their coding talents.



Adrenaline, a two day event, was also organized for those who love to play. Adrenaline included the games: NFS Most Wanted, FIFA 18, PAIN, CS 1.6 and CS Go.

The event winners were awarded with prizes and certificates. Students' coordinators and volunteers were awarded with appreciation certificates. Murious XII was a huge success.

November 18 -19, 2017

# JUIT YOUTH PARLIAMENT



JUIT conducted the 4<sup>th</sup> edition of its Youth Parliament on November 18 – 19, 2017. The topic for discussion was "Comprehensive review of the policy of Demonetization" in the Lok Sabha. Honorable Vice Chancellor, Prof. Vinod Kumar, Director Prof. Samirdev Gupta and Registrar Maj. Gen. (Retd.) Rakesh Bassi greeted the audience and declared the event open for the next two days. The parliament session saw

active participation of students from JUIT and other colleges alike. The press members covered the whole event by clicking photographs, making caricatures and printing newsletters. It ended with a press conference and prize distribution ceremony. The event was a huge success and the university looks forward to conducting many such programs in the future.





November 7 – 12, 2017

## JOURNEY OF SELF DISCOVERY

One week lecture series by ISKCON



A one week lecture series on the theme 'Journey of self discovery' was organised with the help of International Society for Krishna Consciousness (ISKCON) during 7-12 November 2017. Many faculty and staff along with students participated in the seminars and had long interactive sessions with the speakers of ISKCON. About more than 50 participants were

there in the seminar. The key speakers of the seminar were Shri Gaurav Bedi, Shri Arun Prabhu, Shri Sanatan Prabhu and Shri Vishnu Gaur Prabhu. The speakers have also taken the feedback from the participants. The participants urged to have such events in near future as well.





# JOURNEY OF SELF DISCOVERY

7th November 2017 to 12th November 2017  
Session Timings: 5:00pm - 6:30pm  
Venue : CR-8



Limited seats  
Register Now!



Enteries Open for Faculty & Staff  
Register Yourself at the Link:  
<https://goo.gl/FiuHba>  
Last Date to register: 6.11.2017



Happiness on Sale?

The God Mystery

Who is Me?

Religion on trail

Can bad happen to good?

Life Apps

a six session course on the principles of **Bhagavad Gita** to quench our quest for Serenity, Joy & Purpose



# nukkad natak

November 14, 2017

## KAIZAN

On 14<sup>th</sup> of November 2017, the JYC Environment Club organized 'Kaizan', an Anti-drug rally and Nukkkad Natak on the campus. For 'Kaizan', a good number of people, students and faculty were joined the rally addressing the menace of drugs. Hon'ble Vice Chancellor, Prof. Vinod Kumar and Registrar, Maj Gen Rakesh

Bassi (Retd.) were also actively participated in the rally. The rally started from the Vivekananda Statue and proceeded towards the kiosks near the temple, which also became the site for the Nukkad Natak presented by the members of Environment Club.







# SAVE A LIFE PLEASE GIVE BLOOD

November 17, 2018

## BLOOD DONATION CAMP

The JUIT in collaboration with Omega Leo Club has organized a blood donation camp on November 17, 2017. An expert team of Doctors from Indira Gandhi Medical College (IGMC), Shimla helped in organizing this blood donation camp at JUIT campus.



# HALLA BOL

February 10, 2018

## HALLA BOL

The JYC Environment club organized “HALLA BOL”, a nukkadnatak competition on a chilly morning of 10<sup>th</sup> February 2018, where the youth was given a platform to raise their voice against the malpractices, injustices, frauds and also habits which are fatal. Four Teams enthusiastically participated in the competition portraying the truth of the society and also gave suggestions as to how such atrocities could be

solved. The portrayed problems which are prevalent in the current times, like the problem of women safety, the problem of increasing traffic and the likes. The teams got appreciation for putting the facts in front of the audience, which were seemingly drawn into the performances. The team of the Environment club turned out to be the eventual winners.





# Celebrations

November 11, 2017

## BHUTANI KING'S BIRTHDAY CELEBRATION

Bhutanese Students Association (BSA) of JUIT came up with a programme to mark and commemorate the 60<sup>th</sup> Birth Anniversary of their Fourth King Jigme Singye Wangchuk on 11<sup>th</sup> November 2017. The programme was held in LT3. A good number of students turned up to attend the event and everyone was glad to see such amazing participation. The programme started with the National Anthem of Bhutan

and recitation of prayers for His Majesty's long life. A cake was served to all presented in the programme. In the event Bhutanese traditional group dance, songs and various solo acts were also performed. The programme was concluded with special refreshments such as Suja (Bhutanese Tea) and Khabxey (Bhutanese dish made of flour).



# Celebrations

November 14, 2017

## CHILDREN'S DAY CELEBRATION

The Children's Day (Bal Diwas) celebrated with the focus on well being, care and enjoyment of Children. It is being celebrated on 14<sup>th</sup> November every year in the memoir of birth anniversary of the first Prime Minister of India,

Sh. Jawarharlal Nehru. The JUIT also celebrated the Children's Day with kids of faculty and staff. It was a fun filled day for all the kids who actively participated in various cultural activities.



January 12, 2018

## LOHRI CELEBRATION

Lohri was celebrated by students, faculty and staff members with full enthusiasm in the campus on January 12, 2018. Lighting of

# Celebrations

bonfire, dancing, singing and feasting Rewri, gajak along with other sweets were some of the activities taken place during the celebration.





January 26, 2018

## REPUBLIC DAY

The morning of 26<sup>th</sup> January 2018 saw the flag being unfurled by the respected Vice Chancellor, Dr Vinod Kumar, in the presence of an enthusiastic and patriotic gathering of students, professors and the guards. The flag hoisting was followed by an encouraging speech by the Vice Chancellor, after which everyone proceeded to enjoy laddoos and a cup of tea under the bright yet comforting winter sun.



**HAPPY INDEPENDENCE DAY**

*I am Proud To Be Indian*





January 30 -31, 2018

# JUIT ANNUAL BOOK EXHIBITION



The 2<sup>nd</sup> JUIT Annual Book Exhibition was organised in the campus on 30 – 31 January 2018. It was undoubtedly an enriching event which added new dimension in book recommendation and selection process for enriching the library collection. The main objective of this book exhibition was to promote long-life learning and intellectual development in the competitive environment by building a state-of-the-art collection in key areas of the university. Over 25 prominent publishers like Pearson, PHI, Wiley, Cambridge University Press, Oxford University Press, Jones & Bartlett, Viva, Ane Books, TMH etc were participated. All publishers brought in most of their newly published books on the areas of Engineering and Technology. Apart from engineering/technology, books in other areas such as biographies, fictions, motivational, communication etc were also exhibited. Faculty

The Learning Resource Center of Jaypee University of Information Technology brings

## 2<sup>nd</sup> JUIT ANNUAL BOOK FAIR

**READ TO LEAD**

30 – 31 January 2018  
(Tuesday – Wednesday)  
(10.00am – 05.00pm)  
Ground (0) floor of the Academic Block

All students, faculty members and staff are invited for this grand academic event. The latest books in all areas of knowledge will be displayed by renowned publishers.

Apart from suggesting books for the library, the faculty, students, staff can directly purchase books from the suppliers on 2<sup>nd</sup> day of the exhibition at 25% to 28% discount.

**Books from following Publishers:**

<b>SAGE</b> Ane Books New Age Int. Viva Books	<b>CAMBRIDGE UNIVERSITY PRESS</b> CBS Pub. Made Easy Vikas Publishing	<b>CENGAGE Learning</b> Education Oren Blackman G R Publishing	<b>WILEY</b> Narosa TERI Press PEARSON
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Walainghat, Solan, Himachal Pradesh – 173 234

members and students took active part in the grand exhibition and suggested books to enrich the library collection with quality contents.





November 12 -15, 2017

# 25<sup>TH</sup> HP STATE LEVEL CHILDREN'S SCIENCE CONGRESS- 2017

The 25<sup>th</sup> HP State Level Children's Science Congress- 2017 was held during 12-15 November 2017 at Dr. Y S Parmar



University Horticulture and Forestry, Nauni. The main idea of the participation of JUIT was to educate the students of Himachal Pradesh through mobile laboratories in the field of Biology and Engineering. Genesis of new ideas leads to Patents/Copyrights/novelty in research experiments



and young minds need to expose towards science and engineering. Students were provided hands-on training for various laboratory experiments, equipment's and information regarding various departments (Biotechnology & Bioinformatics/ Civil Engineering/ Computer Science Engineering/ Electronics & Communication Engineering).

Hon'ble Vice Chancellor Prof. Vinod Kumar also participated in the event as invited guest by HIMCOSTE. During the event, the JUIT team interacted with number of students, teachers almost from all the districts, towns and villages of HP



including few schools from nearby states. They also interacted with HIMCOSTE scientific officers & staff, various

administrative staff from other Govt. Departments of HP. Some of the students and visitors also shared their experience of learning through mobile laboratories (details are given at the end of report). The JUIT outreach team received queries for establishing mobile laboratories in various districts



of Himachal Pradesh.

Following were the coordinators from respective departments.

Department	Name of co-ordinator
Biotech & Bioinformatics	Dr. Sudhir Kumar, Dr. Tiratha Raj Singh, Dr. JitendraaVashisht, Dr. Raghu, Ismail, Baleshwar, Gorky, Pulkit
Civil Engineering & Electronics & Communication Engineering	Dr. Ashish Kumar, Jaswinder Dr. SunilDatt Sharma, Dr. Harsh Sohal, Mr. Pramod, Mr. Kamlesh, Sehaj Chopra

November 2, 2017

## ST. LUKE'S STUDENTS VISITED JUIT

Dr. Hemant Sood coordinated the visit of 10+2 students from St. Luke's, Solan on 2<sup>nd</sup> November, 2018 to the university campus as a part of the Department of BT&BI outreach activity. 27 students of 12<sup>th</sup> standard visited the university, representing both medical and non-medical streams. Students have been taken to

biotechnology and bioinformatics labs, computer science & IT, electronics and communication and civil engineering laboratories. The faculty and staff members of JUIT demonstrated various experiments in their respective labs for providing future perspectives to students.





December 18, 2017

## STUDENTS OF GSS BARMA PAPRI, NAHAN & BANKALA VISITED JUIT

Students from GSS Barma Papri, Nahan and Bankala visited Jaypee University of Information Technology, Wanknaghat on 18<sup>th</sup> December 2017. Students of high secondary section that were 150 in number visited different labs of all the departments. They were inquisitive during their interaction with faculty and staff members.



February 3, 2018

# INDUSTRIAL TOUR TO AMBUJA CEMENT PLANT, DARLAGHAT

An industrial tour to Ambuja Cement Plant, Darlaghat was organised for the students of Civil Engineering on February 3, 2018 under the guidance of Mr. Pankaj Gandhi (Manager HR), Ambuja Cement Plant. In total 41 students along with Dr. Abhilash Shukla, Assistant Professor and Niraj Singh Parihar, Assistant

Professor of Civil Engineering department were visited the cement plant. The tour was very informative and students were able to connect properly with the working of the cement plant and expected that it would help 2nd year students in their concrete technology course.





February 6, 2018

# VISIT TO NATIONAL AGRI-FOOD BIOTECHNOLOGY INSTITUTE

On 6<sup>th</sup> February 2018, Students of B. Tech 2<sup>nd</sup> and 3<sup>rd</sup> year (Bioinformatics) were taken to Academic Institution visit to National Agri-Food Biotechnology Institute (NABI), Knowledge City, Sector 81, Mohali Organized by Department of BT&BI. Dr Narendra Kumar and Ms Sonika Gupta along with 18 students visited NABI. The purpose of the visit was to expose students to various research activities undertaken in the premier research institution in government sector, and to give students a chance to interact with scientists and researchers working on cutting-edge biotechnology research. It was also an opportunity for the students to see the latest infrastructure used in the biotechnology and bioinformatics sector.





# TIEDC SUPPORT TO INNOVATORS

Four students Mr. Pulkit (IV year CS), Mr Kshitiz (IV year BI), Mr Shikar (II year ECE), and Mr Prashasy (II year CS) from JUIT were supported from the Incubator cell to attend International Google Setup weekend at Ghaziabad on 15-17 December 2017. In this event, the members worked with different start-up ideas with an aim to put up a working model on the presentation on the final day. The presentation included a well prepared market plan, revenue model and sources of finance to sustain the start-up. The ideas



like UDACITY, SUKAM energy, ZOMATO etc.

Six students from the student body of Incubator cell, Mr. Pulkit (IV year CS), Mr Kshitiz (IV year BI), Mr Shikar (II year ECE), Mr Prashasy (II year CS) Mr Akhilesh (II year ECE), and Mr Utkarsh (II year ECE) were supported for their exposure to Technology program at IIT Bombay E-Summit during 26-28 Jan 2018 . The Summit provided a new horizon to rethink how an E-Cell and Incubation Ecosystem can be sustained. The summit created a wonderful learning, networking and execution experience with Tech startups from some diverse fields like FinTech,

Mobility, Blockchains, Cryptocurrencies, Healthcares. The students learnt various practical aspects of sustainability of startups and had conversations with the representatives of startup which involved various domains ranging from general queries to obtaining internships and understanding the business.

One of our Incubatee of TIEDC, Mr Anuj Sharma was supported by the cell to attend the 37th India International Trade Fair held at Pragati Maidan, New Delhi during Nov 14-27, 2017. Mr Anuj Sharma, was also supported to participate in TechSparks 2017, a two days conference by Yourstory.com.

The company made a presentation in front of a panel of investors and judges, headed by Head at Yes Bank, India Mr. Amit Shah. The company was able to interact with venture capital funds and law firms at the conference.







## TRAINING & PLACEMENT

### Highlights:

- ✦ Total of 132 Offers received by JUIT students till February'2018
- ✦ Total 42 companies visited for placements till February'2018
- ✦ Highest number of selections by Infosys, followed by Wipro.



### JUIT Students Pursuing Internships at International Universities: Feb – June 2018

Following students have joined foreign Universities for their Six Month Internship after completing their Condensed Semester:

- ✓ Eight Biotechnology and Bioinformatics students at The South Dakota School of Mines and Technology, Rapid City, South Dakota, USA.
- ✓ Five Computer Science & Engineering and Information Technology students at The University of Florida, USA.
- ✓ Two Electronics & Communication Engineering students at The Tampere University of Applied Sciences, Finland.



# BT&BI STUDENTS AT SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY, USA

Research Internship at South Dakota School of Mines & Technology, USA



**Gorky**  
Enrolment- 131579  
Department – BT&BI



**Mehul Salaria**  
Enrolment- 131573  
Department – BT&BI



**Shagun Choudhary**  
Enrolment- 133808  
Department – BT&BI



**Pallavi Soni**  
Enrolment- 141818  
Department – BT&BI



**Pratha Sood**  
Enrolment- 141807  
Department – BT&BI



**Rishab Nautiyal**  
Enrolment- 141847  
Department – BT&BI



**Wageesha Sharma**  
Enrolment- 141828  
Department – BT&BI



**Anandita Govil**  
Enrolment- 141850  
Department – BT&BI



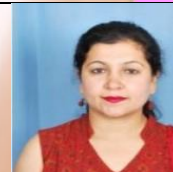
# FACULTY IN SPOTLIGHT

## NEW RESEARCH PROJECT



**Dr. Pradeep K Singh**  
Asstt. Professor  
CSE

Dr Pradeep K Singh, Assistant Prof in the department of CSE/IT along with Dr. Meenakshi Sood, Assistant Professor (Senior Grade), Department of Electronics and Communication Engineering has been awarded a research project by Department of Environment, Science and Technology, Shimla, Himachal Govt., HP, India. The research project titled "Identification of Diseases of Tomato Using Image Processing Techniques for the Farmer of Himachal Pradesh with Feedback System Using IoT and Android Application" has been sanctioned worth Rs 9, 96,750.



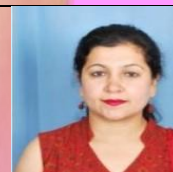
**Dr. Meenakshi Sood**  
Asstt. Professor  
ECE

## NEW RESEARCH PROJECT



**Dr. Shruti Jain**  
Assoc. Professor  
ECE

Dr Shruti Jain, Associate Professor and Dr. Meenakshi Sood, Assistant Professor of Department of Electronics and Communication Engineering were awarded research project on 'Design and analysis of a thermoelectric generator for energy harvesting system from waste heat for the state of Himachal Pradesh' by State Council of Science, Technology and Environment Himachal Pradesh. The sanctioned amount of the project is Rs.5.24 Lakh and duration would be 2017-19.



**Dr. Meenakshi Sood**  
Asstt. Professor  
ECE

## E-MODULES FOR E-PATHSHALA OF UGC



**Dr. Jitendra Vashist**  
Assoc. Professor  
BT/BI

Dr. Jitendra Vashist, Assistant Professor of Department of BT/BI has been contributing e-learning modules for Biophysics subject. These modules are available on ePathshala web-portal of UGC which is a national level repository for e-learning and being maintained by Information and Library Network (INFLIBNET) Centre. Dr. Vashist created e-learning modules for following papers which are available at [http://epgp.inflibnet.ac.in/team.php?syl\\_id=1174&sub\\_name=Biophysics#](http://epgp.inflibnet.ac.in/team.php?syl_id=1174&sub_name=Biophysics#)

### Contribution of Dr. Jitendra Vashist in Biophysics subject

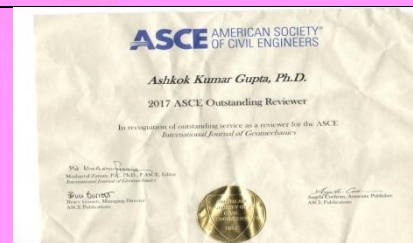
Paper	e-Module	Topic
Paper:P-09. Techniques used in molecular biophysics I	Module – 25	Introduction to Mass Spectrometry
	Module – 29	Gel Based Proteomic Analysis Using Mass Spectrometer
Paper:P-12. Membrane biophysics	Module - 1	Components and Architecture of Cell Membrane

## ASCE's OUTSTANDING REVIEWER - 2017



**Dr. Ashok K Gupta**  
Professor/Head  
CE

Dr. Ashok Kumar Gupta, Professor and Head, Department of Civil Engineering was awarded with '2017 ASCE Outstanding Reviewer' for the ASCE International Journal of Geomechanics by the American Society of Civil Engineers (ASCE).



## NEW APPOINTMENTS

	<b>Mr. Amit Kumar</b> has joined as an Assistant Professor in the Department of CSE on 3 <sup>rd</sup> November 2017.	Prior to joining JUIT, he has associated with Amity University, Noida. He has submitted his Ph.D. (Computer Science & Engineering, 2017) from Birla Institute of Technology, Mesra, Ranchi, India. He obtained his M. Tech. (Computer Science & Engineering, 2010) from PEC University of Technology, Chandigarh.
	<b>Mr. Rizwan Ur Rahman</b> joined as an Assistant Professor in the Department of CSE on 16 <sup>th</sup> November 2017.	He has done his M.Tech in Computer Science from MANIT Bhopal, India and pursuing his Ph.D from MANIT Bhopal, India.
	<b>Dr. Saurabh Srivastava</b> joined as an Assistant Professor in the Department of Mathematics on 25 <sup>th</sup> November 2017.	Before joining JUIT, he has worked in Hindustan College of Science & Technology, Mathura, Ajay Kumar Garg Engineering College, GZB of Engineering and Technology, MJP Rohilkhand University, Bareilly and Bareilly College, Bareilly. He received his M.Sc. and Ph.D. from MJP Rohilkhand University, Bareilly.
	<b>Mr. Nitin Kumar</b> joined as an Assistant Professor in the Department of CSE on 27 <sup>th</sup> November 2017.	He has done his M.Tech in CSE from NIT Jalandhar and pursuing Ph.D. (Pursuing) in the area of underwater image processing from Academy of Scientific and Innovative Research - Central Scientific Instruments Organisation (AcSIR-CSIO), Chandigarh, India.
	<b>Dr. Rajinder Sandhu</b> has joined as an Assistant Professor (Senior Grade) in the Department of CSE on 30 <sup>th</sup> November 2017.	He has done his Ph.D. in the area of On Architectures and Applications of Big Data and Cloud Computing from Guru Nanak Dev University, Amritsar and Post-Doctoral Research in the area "Data Intensive Resource Scheduling in Aneka for Multi-Cloud Environments" from University of Melbourne, Australia.
	<b>Dr. Ekta Gandotra</b> joined as an Assistant Professor in the Department of CSE on 30 <sup>th</sup> November 2017.	She has done his M.Tech in Computer Science from Kurukshetra University, Kurukshetra, Haryana and Ph.D. in Computer Science & Engineering from PEC University of Technology, Chandigarh.
	<b>Dr. Narendra Kumar</b> joined as an Assistant Professor in the Department of BT/BI on 1 <sup>st</sup> December 2017.	He earned a Ph.D. degree in 2009 in Computational Biology and Bioinformatics from National Institute of Immunology, New Delhi. Thereafter, he worked in the field of enzyme function prediction and molecular interaction as a postdoctoral fellow at Georgia Institute of Technology, Atlanta, US.



	<b>Dr. Amardeep</b> joined as an Assistant Professor in the Department of CE on 7 <sup>th</sup> December 2017.	Dr. Amardeep did his B. Tech. in Civil Engineering from Kurukshetra University Kurukshetra in 2010. He completed his M. Tech. In 2012 from NIT Kurukshetra with specialization in Transportation Engineering and Ph. D in Civil Engineering with specialization in Transportation Engineering from Indian Institute of Technology Roorkee (IITR) in 2017.
	<b>Dr. Ashok Kumar</b> joined as an Assistant Professor in the Department of BT/BI on 28 <sup>th</sup> December 2017.	He has completed his Ph.D. in Biotechnology in 2013 from Department of Biotechnology, Himachal Pradesh University, Summer Hill, Shimla, India. He worked as a post-doctoral fellow in State Key laboratory of Agricultural Microbiology, Huazhong Agricultural University, Wuhan China for two years, 2014-2016.
	<b>Dr. Mandeep Singh</b> joined as an Assistant Professor in the Department of Mathematics on 28 <sup>th</sup> December 2017.	He earned his Ph.D (Mathematics) Degree from BITS Pilani, Pilani campus, Pilani Rajasthan in 2016. Earlier, He has worked as Assistant professor in DIT University, Dehradun.

## PROMOTIONS 2017-18



Name	Department	Promoted to
<b>Dr. Hemant Sood</b>	BT&BI	Associate Professor
<b>Dr. Jata Shankar</b>	BT&BI	Associate Professor
<b>Dr. Rahul Shrivastava</b>	BT&BI	Associate Professor
<b>Dr. Anil Kant</b>	BT&BI	Associate Professor
<b>Dr. Gopal Singh Bisht</b>	BT&BI	Associate Professor
<b>Dr. Tiratha Raj Singh</b>	BT&BI	Associate Professor
<b>Dr. Pradeep Kr. Gupta</b>	CSE	Associate Professor
<b>Dr. Pankaj Sharma</b>	PMS	Associate Professor
<b>Dr. Salman Raju Talluri</b>	ECE	Assistant Professor (Sr.Grade)
<b>Dr. Naveen Jaglan</b>	ECE	Assistant Professor (Sr.Grade)
<b>Dr. Ruchi Verma</b>	CSE	Assistant Professor (Sr.Grade)
<b>Dr. Nishant Jain</b>	ECE	Assistant Professor (Sr.Grade)
<b>Dr. Geetanjali</b>	CSE	Assistant Professor (Sr.Grade)
<b>Dr. Amardeep</b>	CE	Assistant Professor (Sr.Grade)
<b>Dr. Saurabh Rawat</b>	CE	Assistant Professor (Sr.Grade)
<b>Ms. Ruhi Mahajan</b>	CSE	Assistant Professor (Grade-II)
<b>Mr. Bibhas Paul</b>	CE	Assistant Professor (Grade-II)

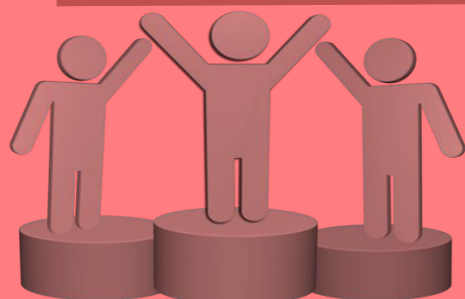
# STUDENT AWARDS

## MS VEDIKA WON 1<sup>ST</sup> PRIZE



in State Level – National Science Day  
organised By HIMCOSTE



**Ms. Vedika Kayasth** (141851), B.Tech, Department of Biotechnology of JUIT has won First Prize in declamation contest in State Level – National Science Day organised by the Himachal Pradesh Council of Science, Technology and Environment on 28<sup>th</sup> February 2018. Ms. Vedika received this award from the Hon'ble Education Minister, Himachal Pradesh Shri Suresh Bhardwaj.



## RECOGNITION TO STUDENTS

AWARD	STUDENT/S – PARTICULARS	
<b>1st Prize</b>	Ankita Shukla (136502), Research Scholar of Department of BT&BI has won First prize in oral presentation at Indian Conference on Bioinformatics (Inbix-2017). The first International Conference of Bioclues Society, held at BISR, Jaipur, India during November 7 -9, 2017. She is working under the supervision of Dr. Tiratha Raj Singh.	
<b>1st Prize</b>	Siddhant kalra, B.Tech Department of BT&BI has won First prize in poster presentation at Indian Conference on Bioinformatics (Inbix-2017). The first International Conference of Bioclues Society, held at BISR, Jaipur, India during November 7 -9, 2017. He is working under the supervision of Dr. Tiratha Raj Singh.	



<b>1st Prize</b>	Nadia (176501), Research Scholar and Jayashree Ramana, Assistant Professor, Department of BT&BI have won First prize on oral presentation in Human Oral Cancer Microbiome Database in International Conference on Advances in Biosciences and Biotechnology held in Jaypee Institute of Information Technology, Noida during February 1 – 3, 2018.	
<b>1st Prize</b>	Mr. Ankur Choudhary (Research Scholar Civil Engineering) participated in Student Research Convention 2018 at JUIT during 9-10 February and won first prize in his Track. He also participated in “Anveshan-2018 North Zone Student Research Convention” held at Manav Rachna International Institute of Research & Studies, Faridabad during 26-27 February, 2018 and secured first position. This event was conducted by Association of Indian Universities, New Delhi to identify and nurture the research talents among young researchers in the country. He is working under the supervision of Dr. Ashish Kumar and Dr. Sudhir Syal.	
<b>1st Prize</b>	Mehul Salaria, Tashil Sharma, Ankush Bansal, Tsering Stobdan and Anil Kant, Comparative transcription factors mining of Sea buckthorn male and female flower buds in Indian Conference on Bioinformatics (Inbix'17), held at Birla Institute of Scientific Research, Jaipur during November 7-9, 2017.	
<b>1st Prize</b>	First Prize in poster presentation, Sharma K, Bhawanani S, Goel G. Evaluation of indigenous probiotic lactic acid bacteria to overcome gluten induced allergy. Student Research Convention, JUIT, Wagnaghat, Feb 9-10, 2018.	
<b>Best Poster Award</b>	Ankush Bansal, Mehul Salaria, Tashil Sharma, Tsering Stobdan and Anil Kant, Comparative miRNA mining of Sea buckthorn male and female transcriptomes in National Conference on Seabuckthorn for Improving Health and Sustainable Development of Himalayan Region, held at Defence Institute of High Altitude Research (DIHAR-DRDO), Leh, J&K during September 22-24, 2017.	
<b>2nd prize</b>	Rhythem Sharma, Satyam Singh, and Dr. Hemant Sood. 2018 Effect of Polychromatic LED's on growth and development of Micro-propagated Shoots of Picrorhiza kurroa. Student Research Convention organized by TIED cell and ACM JUIT on 9th-10th February, 2018 at JUIT Wagnaghat, Solan	
<b>3rd prize</b>	Nupur S Munjal, Manu Sharma, Chittaranjan Rout, "Substituent structure-solubility relationship for prodrug designing with improved solubility profile", got 3 <sup>rd</sup> Prize in poster presentation in ICABB-2018 (31st January 2018 - 3rd February 2018) at JIIT Noida.	



# Ph.D SNAPSHOT

Name (Enr. No.)	Dept.	Viva-voce dt	Title	Guide
Rajinder Kumar (136952)	PMS	Nov 11, 2017	Synthesis, Structural and Magnetic Studies of Cobalt Doped Nickel-Zinc Ferrite Nanoparticles	Dr. P B Barman Dr. Ragini Raj Singh (Co-supervisor)
Geetanjali (146201)	CSE	Nov 18, 2017	On Security and Performance Enhancement in Wireless Mesh Networks	Dr. Hemraj Saini
Gautam Kumar (136202)	CSE	Nov 18, 2017	On Security and Performance in ECC, Noncommutative Cryptography and Signcryption	Dr. Hemraj Saini
Keerti Tiwari (136001)	ECE	Nov 24, 2017	Analysis of MIMO System Over a Composite Fading Channel	Dr. S V Bhooshan
Tarun Pal (116504)	BT/BI	Nov 30, 2017	Development of Computational Resources for Predicting Disease Resistance Genes and Mapping Ngstranscripts to Secondary Metabolism in Plants	Dr. R S Chauhan Dr. Hemant Sood (Co-supervisor)
Neha Sharma (126553)	BT/BI	Nov 30, 2017	Investigation of morphogenetic differences and seaweed extract stimulated increase in biomass and <i>picroside-I</i> content in <i>Picrorhiza</i> species	Dr. Hemant Sood
Bandna Bharti (136951)	PMS	Dec 4, 2017	Surface Modification of Titanium Dioxide (TiO <sub>2</sub> ) Thin Films and Their Applications	Dr. Rajesh Kumar Dr. P B Barman (Co-supervisor)
Manoj Gaur (116851)	Math.	Dec 4, 2017	Symmetry Analysis of Some Fractional Order Partial Differential Equations	Prof. Karanjeet Singh
Pawan Kumar (126569)	BT/BI	Dec 16, 2017	Deciphering biosynthetic machinery of <i>Podophyllotoxin</i> -Anticancer metabolite of <i>Podophyllum hexandrum</i> Royle	Dr. R S Chauhan Dr. Hemant Sood (Co-supervisor)
Rishi Rana (146601)	CE	Dec 20, 2017	Municipal Solid Waste Characterization and Analysis in Tricity	Dr. Rajiv Ganguli Prof. Ashok K Gupta (Co-supervisor)
Saurabh Rawat (126602)	CE	Dec 20, 2017	Testing and Modeling of Soil - Nailed Slopes	Prof. Ashok K Gupta
Raman Thakur (136558)	BT/BI	Jan 29, 2018	Dual proteome analysis of interactome during interaction of human lung epithelial cells with <i>Aspergillus conidia</i> and functional analysis of SNPs in innate immune receptors	Dr. Jata Shankar
Arun Kumar (126752)	BT&BI	Feb 27, 2018	Design and development of nanoemulsions and hydrogel based systems for enhanced intestinal permeability and controlled release of phytochemicals	Dr. M. Udayabanu
Amit Sud (106567)	BT&BI	Jan 29, 2018	Differential proteomic analysis for identifying proteins involved in the biosynthesis of <i>picroside-I</i> and <i>picroside-II</i> from <i>Picrorhiza kurroa</i> – An endangered medicinal herb	Dr. Hemant Sood
Rajender Singh (136953)	PMS	Feb 3, 2018	Study Of Structural, Morphological, Optical and Surface Properties of Silver Doped ZnO and Poly (Styrene Co Acrylonitrile) ZnO Nanocomposite	Dr. P B Barman Dr. Deeraj Sharma (Co-supervisor)
Saurav (126601)	CE	Feb 10, 2018	Experimental Studies of Strength and Durability Analysis of Concrete Incorporating Ultrafine Slag	Prof. Ashok K Gupta
Dilshad Ahmad Ansari (126205)	CSE	Feb 24, 2018	Copy-Move (Cloning) Image Forgery Detection Using Wavelets and Projection Profiling	Prof. S P Ghrera



# ACADEMIC OUTREACH



**Dr. Tiratha Raj Singh**, Associate Professor, Department of BT/BI was Program co-chair, in Indian Conference on Bioinformatics (Inbix-2017), November 7-9, 2017, BISR, Jaipur, India.

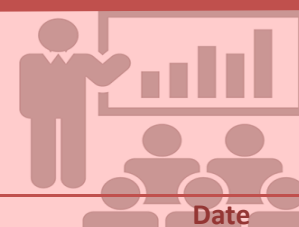
**Dr. Raghu M. Yennamalli**, Assistant Professor, Department of BT/BI was the Resource Person for the DBT sponsored workshop on Mining Genomes to Predict Novel Genes from Big Data Repositories organized by Himachal Pradesh University, Shimla on November 30, 2017.

**Dr. Shruti Jain**, Associate Professor, Department of ECE was Session Chair in International Conference on Futuristic Trends in Network and Communication Technologies (FTNCT-2018), Department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology, Solan-173234, Himachal Pradesh, INDIA, February 9-10, 2018.

**Dr. Jata Shakar**, Associate Professor, Biotechnology & Bioinformatics has presented an invited lecture on topic entitled “Genomics of filamentous and non-filamentous fungi; A biotechnological perspective” during the Golden Jubilee Celebration of Calicut University, 22nd -23rd Feb., 2018 at Calicut Kerala.

# FACULTY DEVELOPMENT

## WORKSHOPS/CONFERENCES/SEMINARS ATTENDED



Faculty	Event	Date
<b>Dr. Hemant Sood</b> Associate Professor, BT&BI	Attended State level workshop on National Biodiversity Action Plan, National Biodiversity Targets and India's Sixth National Report To Convention On Biological Diversity, organized by Himachal Pradesh State Biodiversity Board at Regency Hall, Shimla, HP	Feb 18, 2018
<b>Dr. Neel Kanth</b> Assistant Professor, Math.	Attended five days short term course on Software Tools for Scientific Research: Mathematica and LATEX, organized by Department of Mathematics and Mechanical Engineering, M.N.I.T Jaipur	Jan 9-13, 2018
<b>Pardeep Garg</b> Assistant Professor, ECE	Attended a tutorial on Machine Learning by Prof. Shekhar Verma at IIITM Gwalior on 3 <sup>rd</sup> November 2017 during 3 days IEEE Conference (CICT 2017)	Nov 3, 2017
<b>Dr. Shruti Jain</b> Associate Professor, ECE	Attended Guest Lecture on “Compete for BIRAC Biotechnology Ignition Grant (BIG) scheme” by Dr. Udayan Chandra in charge of DBT-BIRAC (Biotechnology Research Assistance Council), New Delhi.	Jan 20, 2018
<b>Dr. Ashish Kumar</b> Associate Professor, CE	Attended two days workshop Startups and Innovation “Startup Jalsa - 2017” at lake Club, sector 1, Chandigarh.	Dec 16-17, 2017
<b>Dr. Nishant Jain</b> Assistant Professor, ECE	Attended two days workshop Startups and Innovation “Startup Jalsa - 2017” at lake Club, sector 1, Chandigarh.	Dec 16-17, 2017
<b>Dr. Ashish Kumar</b> Associate Professor, CE	Attended 2nd Himachal Pradesh Science Congress, Science and Technology For Sustainable Livelihood in Indian Himalayan Region on Nov. 20- 21 , 2017, Shimla (H P)	Nov 20-21, 2017


# INTELLECTUAL CAPITAL

## PUBLICATIONS IN RESEARCH JOURNALS:



- Bansal, A., Salaria, M., Sharma, T., Stobdan, T., & Kant, A. (2018). Comparative de novo transcriptome analysis of male and female Sea buckthorn. *3 Biotech*, 8(2), 96. doi: 10.1007/s13205-018-1122-5.
- Das, P. S., Poddar, R., Sarkar, S., Megha, M., Sundararajan, V. S., Nallapeta, S., Singh, TR & Suravajhala, P. (2018). Twelve years of BIOinformatics CLUB for Experimenting Scientists (Bioclues). *PeerJ Preprints*, 6, e26503v1.
- Dewangan, R. P., Bisht, G. S., Singh, V. P., Yar, M. S., & Pasha, S. (2018). Design and Synthesis of Cell Selective  $\alpha/\beta$ -Diastereomeric Peptidomimetic with Potent In vivo Antibacterial Activity against Methicillin Resistant *S. aureus*. *Bioorganic Chemistry*. 76: 538-547. doi: 10.1016/j.bioorg.2017.12.020.
- Dogra, J., Prashar, N., Jain, S., & Sood, M. (2018). Improved methods for analyzing MRI brain images. *Network Biology*, 8(1), 1-11.
- Gambhir, S., Malik, S. K., & Kumar, Y. (2017). PSO-ANN based diagnostic model for the early detection of dengue disease. *New Horizons in Translational Medicine*, 4(1-4), 1-8.
- Jain, P. K., & Tiwari, A. K. (2017). An adaptive thresholding method for the wavelet based denoising of phonocardiogram signal. *Biomedical Signal Processing and Control*, 38, 388-399.
- Jain, P. K., & Tiwari, A. K. A Robust Algorithm for Segmentation of Phonocardiography Signal Using Tunable Quality Wavelet Transform. *Journal of Medical and Biological Engineering*, 1-15.
- Jain, S. (2017). Regression modeling of different proteins using linear and multiple analysis. *Network Biology*, 7(4), 80.
- Jain, S. (2018). Classification of EGF and Insulin Receptors using Gabor Wavelet Transform, *International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)*, 4(11), 21-25, 2017.
- Kumar A, Saini H S, Kumar S. (2018). Enhancement of gold and silver recovery from discarded computer printed circuit boards by *Pseudomonas balearica* SAE1 using response surface methodology (RSM). *3Biotech*, 8(2): 100.
- Kumar A, Saini H S, Kumar S. (2018). Bioleaching of gold and silver from waste printed circuit boards by *Pseudomonas balearica* SAE1. *Current Microbiology*, 75(2): 194-201.
- Kumar, G., & Saini, H. (2018). Secure and Robust Telemedicine using ECC on Radix-8 with Formal Verification. *International Journal of Information Security and Privacy (IJISP)*, 12(1), 13-28.



- 
- Kumar, H., & Singh, P. K. (2017). Node Energy Based Approach to Improve Network Lifetime and Throughput in Wireless Sensor Networks. *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, 9(3-6), 79-88
  - Kumar, N., Singh, Y., & Singh, P. K. (2017). Reputation-based Energy Efficient Opportunistic Routing for Wireless Sensor Network. *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, 9(3-6), 29-33.
  - Kumar, Y., & Singh, P. K. (2017). Improved cat swarm optimization algorithm for solving global optimization problems and its application to clustering. *Applied Intelligence*, 1-17.
  - Pal, T., Padhan, J. K., Kumar, P., Sood, H., & Chauhan, R. S. (2018). Comparative transcriptomics uncovers differences in photoautotrophic versus photoheterotrophic modes of nutrition in relation to secondary metabolites biosynthesis in *Swertia chirayita*. *Molecular biology reports*, 1-22. doi.org/10.1007/s11033-017-4135-y.
  - Prashar, N., Dogra, J., Sood, M., & Jain, S. (2018) Removal of electromyography noise from ECG for high performance biomedical systems. *Network Biology*. 8(1), 12-24.
  - Rana, R., Ganguly, R., & Gupta, A. K. (2018). Indexing method for assessment of pollution potential of leachate from non-engineered landfill sites and its effect on ground water quality. *Environmental monitoring and assessment*, 190(1), 46. doi: 10.1007/s10661-017-6417-1.
  - Rathee, G., & Saini, H. (2017). Modified AODV (MAODV) Against Black Hole in WMN. *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, 1-12.
  - Rathee, G., & Saini, H. (2017). Secure Modified Ad Hoc On-Demand Distance Vector (MAODV) Routing Protocol. *International Journal of Mobile Computing and Multimedia Communications (IJMCMC)*, 8(1), 1-18.
  - Rathee, G., & Saini, H. (2018). Authentication Through Elliptic Curve Cryptography (ECC) Technique in WMN. *International Journal of Information Security and Privacy (IJISP)*, 12(1), 42-52.
  - Sahu, S., Singh, H., Kumar, B., et al. (2018). A Bayesian Multiresolution Approach for Noise Removal in Medical Magnetic Resonance Images. *Journal of Intelligent Systems*, doi:10.1515/jisys-2017-0402.
  - Sharma, A., Ganguly, R., & Gupta, A. K. (2018). Matrix method for evaluation of existing solid waste management system in Himachal Pradesh, India. *Journal of Material Cycles and Waste Management*, 1-19. doi: 10.1007/s10163-017-0615-3.
  - Sharma, D. and Ganguli, R. (2018). Evaluation of Existing Solid Waste Management Practices for Solan city - India. *Journal of Solid Waste Technology and Management*, 44(1), 32-42.
  - Singh, U. K., Ahmad, Z., & Kumar, A. (2017). Formulation for critical shear stress of cohesive sediment mixture. *Current Science (00113891)*, 113(11).

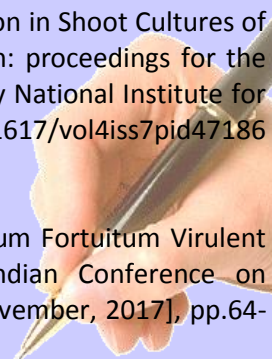
- Thakur N, Changotra H, Shrivastava R, Grover N, Vashist J (2018). Estimation of *Vibrio* species incidences and antibiotic resistance in diarrhea patients. *Asian Journal of Pharmaceutical and Clinical Research*. 11(1), 369-373. doi: 10.22159/ajpcr.2017.v11i1.22088.
- Thakur, N., Jain, S., Changotra, H., Shrivastava, R., Kumar, Y., Grover, N., & Vashist, J. (2018). Molecular characterization of diarrheagenic *Escherichia coli* pathotypes: Association of virulent genes, serogroups, and antibiotic resistance among moderate-to-severe diarrhea patients. *Journal of clinical laboratory analysis*. doi: 10.1002/jcla.22388.



## PUBLICATIONS IN CONFERENCE PROCEEDINGS:

- Bansal, A., Kant, A. and Singh, T.R. (2017). A network analysis framework to decipher uni-directional information flow from differential transcriptome datasets for pathway of interest. In: proceedings of Indian conference on Bioinformatics (Inbrix'17), Birla Institute of Scientific Research, Jaipur, November 7-9, 2017.
- Dhulia, A., Gupta, A., Shandil, A. and kashyap, A. (2017). Strength properties of concrete by using crumb rubber as partial replacement of aggregates. Proceedings of the International Conference on Emerging Trends in Engineering Innovations & Technology Management (ICET:EITM-2017) [NIT Hamirpur, Hamirpur, Himachal Pradesh, India : December 16-18, 2017.
- Divya, Govil, A., Vashist, J. and Shrivastava, R. (2017). Identification and Construction of LipU Antisense Knockout Mutant of *Mycobacterium fortuitum* and its Potential Role in pathogenesis. Proceedings of the Annual Conference of Association of microbiologist of India and International Symposium on Microbes for Sustainable Development: Scope and Applications (MSDSA-2017) [58th : Babasaheb Bhimrao Ambedkar University Lucknow, Uttar Pradesh, India : 16-19 November, 2017], pp.276-277.
- Gali, V., Thakur, M., Gupta, A. K., & Ganguly, R. (2018). Role of UASBs in River Water Quality Conservation in India. In *E3S Web of Conferences* (Vol. 34, p. 02046). EDP Sciences. doi:10.1051/e3sconf/20183402046
- Garg, P., Sharma, S.D. and Sharma, S.N. (2017). Tandem Repeats Detection in DNA Sequences Using P-Spectrum Based Algorithm. Paper presented in IEEE Conference on Information and Communication Technology at IIITM Gwalior, 3-5 November 2017.
- Gupta, P., Ghrera, S. P., & Goyal, M. (2018). QoS Aware Grey Wolf Optimization for Task Allocation in Cloud Infrastructure. In *Proceedings of First International Conference on Smart System, Innovations and Computing* (pp. 875-886). Springer, Singapore.
- Jain, S. (2017, December). Analysis & simulation of electrical parameters of fuzzy system using different types of current amplifiers with different membership functions for Akt pathway. In Image Information Processing (ICIIP), 2017 Fourth International Conference on (pp. 1-5). Dec 21-23, 2017, Jaypee University of Information technology, Wagnaghat, Solan, H.P, India.



- 
- Kotvi, P., Sharma, R., Singh, S. and Sood, H (2017). Gentipicroside Elicitation in Shoot Cultures of *Gentiana kurroo* and *Swertia chirayita* with Molecular Authentication. In: proceedings for the International Conference on Biotechnology And Biomedicine organized by National Institute for Engineering and Research Hyderabad.13 August 2017. doi: 01.1617/vol4iss7pid47186 ISBN:9788192958012.
  - Mittal, S., Poonam, Shrivastava, R. (2017). Identification of Mycobacterium Fortuitum Virulent Membrane Genes as Potential Drug Targets. Proceedings of the Indian Conference on Bioinformatics [Birla Institute of Scientific Research, Jaipur, India : 7-9 November, 2017], pp.64-65
  - Prasad, A., Pramjeet, R., Singh, G.S., Shrivastava, R. (2017). In-Vitro studies of the Overexpressed Gene Isocitrate Lyase of Mycobacterium fortuitum under Stressed Conditions..Proceedings of the Annual Conference of Association of Microbiologists of India and International Symposium on Microbes for Sustainable Development: Scope and Applications (MSDSA-2017) [58th : Babasaheb Bhimrao Ambedkar University Lucknow, Uttar Pradesh, India. : 16-19 November, 2017], pp.270.
  - Sethi, P., Juneja, L., Gupta, P., & Pandey, K. K. (2018). Safe Sole Distress Alarm System for Female Security Using IoT. In *Proceedings of First International Conference on Smart System, Innovations and Computing* (pp. 863-874). Springer, Singapore.
  - Shukla, A., Yennamalli, R.M. and Singh, T.R. (2017). Structure Based Inference of Functional Single Nucleotide Polymorphism “L28F” and to Determine its Role in TGF $\beta$ 1 Allied Colorectal Cancer (CRC). In: proceedings of Indian conference on Bioinformatics (Inbrix’17), Birla Institute of Scientific Research, Jaipur, November 7-9, 2017.

## PUBLICATIONS AS BOOK CHAPTERS:

- Bisht, G.S., Gupta, K., Shrivastava, R. (2017). Factories for Antibody Generation. In Vipin Chandra Kalia, Adesh Kumar Saini, Metabolic Engineering for Bioactive Compounds (pp. 351-370). Singapore: Springer . [ISBN : 978-981-10-5511-9].
- Dhulia, A., Ganguly, R. (2018). Critical Assessment of Existing Environmental Legislation and Policies in India, Its Benefits, Limitation, and Enforcement. In Chaudhery Mustansar Hussain, Handbook of Environmental Materials Management (1st edition, pp. ). : Springer . [ISBN : 9783319585383].
- Poonam, Ghildiyal, R., Bisht, G.S., Shrivastava, R.(2017). Engineering Yeast as Cellular Factory. In Vipin Chandra Kalia, Adesh Kumar Saini, Metabolic Engineering for Bioactive Compounds (pp. 173-208). Singapore: Springer . [ISBN : 978-981-10-5511-9].
- Sharma, D., Shrivastava, R., and Bisht, G.S.(2017). Nanomaterial in Diverse Biological Application. In Kalia V., Saini A. , Metabolic Engineering for Bioactive Compounds (pp. 293-317). Singapore: Springer . [ISBN : 978-981-10-5511-9].





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