

A Newsletter of JUIT

# HILLY RAMBLINGS

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International Conference

## RECENT TRENDS IN BIOTECHNOLOGY AND BIOINFORMATICS (ICBAB) 2019

August 01 – 03, 2019

The 1<sup>st</sup> International Conference on "Recent Trends in Biotechnology and Bioinformatics", hosted by the Department of Biotechnology and Bioinformatics was held during August 01-03, 2019 at Jaypee University of Information Technology (JUIT), Waknaghat, Solan. The conference was based on the theme "Widespread Applications and Advancements in Biotechnology and Bioinformatics". Benevolent response and active participation were received from scientists, researchers, students and leaders from various fields of Biotechnology & Bioinformatics.



After the review process, 51 abstracts were selected for oral presentation and 110 abstracts for an interactive poster presentation. Overall 180 delegates were attended the conference from India and abroad. All the attendees



characterized the conference as very useful and interactive that targeted the core issues involve in advancement of diversity in the scientific area.

The conference was initiated with the honorable presence of the Keynote forum, that includes Prof. Vinod Kumar, Vice Chancellor of JUIT; Prof. Rajesh K Sani, South Dakota School of Mines and Technology, USA; Prof. S S Kanwar, Himachal Pradesh University, Shimla; Prof. Biswajit Kundu, IIT Delhi; Dr. Prashanth Suravajhala, BISR, Jaipur and Prof. Sudhir Kumar, BT-BI, JUIT.

The conference was an excellent outcome of the dedicated and sincere hard work of the team of three conveners which includes Dr. Ashok Kumar Nadda, Dr. Abhishek Chaudhary and was efficiently lead by Dr. Tiratha Raj Singh.



5th IEEE International Conference

# ISPPCC – 2K19

October 10 – 12, 2019

Department of  
Electronics and  
Communication  
Engineering of  
Jaypee University of  
Information  
Technology,  
Waknaghat  
organized 5<sup>th</sup> IEEE



“International Conference on Signal Processing, Computing and Control” (ISPPCC-2k19), technically sponsored by IEEE USA and Delhi section, from 10th October to 12th October, 2019 at Jaypee University of Information Technology, Waknaghat, Solan, H.P. Prof. M.J. Nigam was the Principal General Chair while Dr. Shruti Jain and Dr. Meenakshi Sood were the Conference General Chairs.



The aim of the ISPPCC is to serve for researchers, developers, educators working in the area of signal processing, computing, control and their applications to present and future work as well as to exchange research ideas. This conference is one of the premier venues for fostering international scientific and technical exchange across research communities in networking. The conference had support of three sponsorships by BIOPAC systems, AD Instruments and Biomedical Engineering Society of India. An overwhelming response was received from the researchers, academicians and industry from all over the globe. A total of 273 research papers were received, out of which 70 papers were accepted and registered and presented during the three day conference, acceptance ratio being 25%. The papers were presented in their respective session schedule spanned over three days.



Prof. Dinesh Kumar, Professor (Biomedical Engineering), Electrical and Computer System Engineering, RMIT, University, Melbourne, Australia, Prof. Ishfaq Ahmad, Computer Science and Engineering University of Texas at Arlington (UTA), USA, Prof. Shyam Sundar Pattnaik, Director National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, Prof. Manu Sood, Director, UIET, Himachal Pradesh University,



Dr. Narayan Panigrahi, Centre for Artificial Intelligence & Robotics DRDO Bangalore, India were the keynote speakers. Special talks were also delivered by Dr. Farhad Ilahi Bakhsh, NIT Srinagar, Ms. Taranmeet, and Mr. JKL Prasad & Mr. Muktesh Sharma from industry as an integral part of the conference. Two workshops were also held during the conference by BIOPAC systems and AD Instruments that provided hands on exposure to the participants.



Three-Day Workshop

## BIOMEDICAL SIGNAL PROCESSING IN COMPUTER VISION TECHNIQUES AND ADVANCEMENTS

October 10 – 12, 2019

The Department of Electronics and Communication Engineering organized a Three day workshop on “Biomedical Signal Processing in Computer Vision - Techniques and Advancements” by the experts from ADInstruments, New Delhi from October 10 -12, 2019. It was conducted by Mr. JKL Prasad (BDM - North & East) and Mr. Muktesh Sharma (Application Specialist -North). The workshop was a joint effort of Dr. Shruti Jain Dr. Meenakshi Sood of ECE Department.



ADInstruments is an Australia - New Zealand based international company and is global leader in providing engineering-leading software solutions and data acquisition systems. They create simple, flexible and accurate tools to help scientists and educators record and analyze data quickly and efficiently. They provide user-friendly software, specialised training options and



solution-focused systems of the highest quality. The team of ADInstruments given overview on



PowerLab, Delsys Trigno Wireless system, Equival Wireless system, Wireless ancillaries,

PowerLab is a data acquisition (DAQ) device engineered for precise, consistent, reliable data acquisition that are capable of recording at speeds of up to 400,000 samples per second continuously to disk (aggregate), and are compatible with instruments, signal conditioners, and transducers, etc.



The aim of the workshop to introduce the Researchers, Engineering students and Educators with Innovative, Powerful, Flexible and Accurate Wireless Products (Delsys and Equival) and Data acquisition system (Teaching system) of ADInstruments which will help them to record and analyze data quickly and efficiently. Our wireless physiological recording solutions are able to stream a broad range of signals direct into LabChart software so that user can simultaneously display and analyse multiple signals in real-time. More than 250 students, 60 participants and 50 faculty members have attended the workshop.

Three-day Workshop

## COMPUTATIONAL TOOLS AND TECHNIQUES FOR BIOMEDICAL SIGNAL PROCESSING - ADVANCES IN BIOMEDICAL ENGINEERING

October 10 – 12, 2019

Department of Electronics and Communication Engineering organized a Three day workshop on “Computational Tools and Techniques for Biomedical Signal Processing- Advances in Biomedical Engineering” by the experts from Biopac Systems, USA with Gentech Marketing and Distribution Pvt. Ltd, India from October 10- 12, 2019. It was conducted by Ms.Varnika Talwar, Ms. Taranmeet Kaur, and Mr. Manish Kumar. The workshop was a joint effort of Dr. Shruti Jain Dr. Meenakshi Sood of ECE.

The advances in biomedical engineering equipped the physiologists to acquire a wide variety of



physiological signals with precision and reproducibility. BIOPAC provides Life Sciences researchers a complete range of powerful, flexible, user friendly hardware and software platforms, aptly designed for obtaining great scientific data in lab settings, MRI, and real-world environments. The Biopac instruments provide



unique at the same time versatile hardware/software combinations available as, wired, wireless, wearable or MRI which can be easily used for/on human as well as experimental model systems according to physiologist’s requirement. Now BIOPAC BioNomadix wearable wireless devices give freedom to record physiological parameters in real time without restrain. Physiological data can be recorded at workplace, during Yoga maneuvers, Meditation without causing discomfort to subjects. BIOPAC provides a range of virtual reality (VR) immersive solutions with physiology data.



In nutshell, Biopac instruments have given impeccable support to life science research and with the advanced BIOPAC instruments will lead the future science. More than 250 students, 50 participants and 25 faculty members have attended the workshop.



## SUMMER TRAINING WORKSHOP

June 01 – July 14, 2019

A six week Summer Training Workshop was organized by the Department of Biotechnology and Bioinformatics for students participating from All over India. The workshop provided lectures and rigorous Hands on Training to outside participants in various modules-

Bioinformatics, Molecular Biology Techniques, Industrial Plant Tissue Culture, Microbial Pathogens & Medical Genomics etc. The Summer Training Workshop was coordinated by Dr. Rahul Shrivastava.



Expert Lecture on

**Biomedical Signals and Image Analysis for Affordable Diagnostic**

**BY PROF. DINESH KANT KUMAR, RMIT UNIVERSITY, MELBOURNE**

October 10, 2019

Prof. Dinesh Kant Kumar started his talk with informing us about the most common lifestyle disease, diabetes, and how diabetes leads to chronic illness. He explains that diabetes are also more likely to have certain conditions, or risk factors, that increase the chances of having heart disease or stroke, such as high blood pressure or high cholesterol, diabetes also leads to kidney failures , affects the cornea of eyes. He gave a brief comparison between countries in health conditions, in which he compared India. India is an incredibly diverse and culturally rich country. Despite gigantic and beautiful monuments, delicious food, a booming business sector, and Bollywood, it still has some major health issues that many other countries have minimized far more successfully. These health issues affect absolutely everyone, from the poorest people to the richest ones. According to the World Bank, India ranks 146th position among the countries of

the world. Life expectancy at birth is also a yardstick of the overall quality of life in a country. According to World Health Organization, India ranks 126th position in life expectancy.

During the talk the he also informed us about the advancements of technology that can identify the symptoms of Parkinson's diseases using Signals and system processing. He also discussed the doctor patient ratio of Australia and India deficit of 600,000 doctors, and the nurse : patient ratio is 1 : 483, implying a shortage of two million nurses.

B.Tech and M.Tech students attended the lecture and interacted with him enthusiastically. He also interacted with faculty members & Ph.D Research scholar and discussed about the latest research issues. The event was coordinated by Dr. Meenakshi Sood and Dr. Shruti Jain of ECE department.



Expert Lecture on  
**Security Threats to Ad-Hoc Computing: A Perspective on Sybil Attack**  
**BY PROF. MANU SOOD, UIET, HIMACHAL PRADESH UNIVERSITY**

October 11, 2019

Professor Manu Sood gave a talk on ‘Security threats in Ad-Hoc Computing-a perspective of Sybil Attack’. He made the students aware about WANET and its challenges. He presented some statistics about Google query, tweeted queries and YouTube usage. He also made students familiar with attacks in WANETS like Sleep deprivation attack and black hole, further challenges in ad hoc networks like limited wireless range, packet losses and route changes. Students were made acquainted with the term Sybil attack wherein a reputation



system is subverted by forging identities in peer to peer networks.

Students of B Tech and M tech students attended the lecture and interacted with him enthusiastically. He also interacted with faculty members and Ph.D Research scholar and discussed about the latest research issues. The event was coordinated by Dr. Meenakshi Sood and Dr. Shruti Jain of ECE department.





Expert Lecture on  
**A Novel Method for Control of Wind Energy Conversion System (WECS)**  
**BY DR. FARHAD ILAHI BAKHSH, NIT SRINAGAR**  
October 11, 2019

An expert lecture on 'A Novel Method for Control of Wind Energy Conversion system (WECS) was delivered by Dr. Farhad Ilahi Bakhsh of National Institute of Technology Srinagar on 11<sup>th</sup> October 2019 at JUIT campus.

He highlighted that the conventional grid connected synchronous generator (SG) based wind energy conversion system (WECS) incorporates sophisticated power electronic control system which produces harmonics and deteriorates the quality of the power supply. Recently, a new technology i.e. variable frequency transformer (VFT) has emerged as a flexible ac link to transfer power in-between asynchronous power grids. Hence, the presented system aims to use VFT for grid integration of SG based WECS. The proposed system does not employ any power electronic control system. For analysis, the simulation models of proposed configuration as well as conventional configuration have been



developed under MATLAB/Simulink environment. A series of studies on power fed from the SG to the grid at various SG input speeds has been carried

out with the developed models. Further to analyze the effectiveness of the proposed method; the efficiency, total harmonic distortion (THD) of output voltage and THD of output current of the proposed method has been compared with those of the conventional system. From obtained results, it is observed that the proposed system is simple and does not produce harmonics. Moreover, to validate the proposed system, an experimental analysis has been carried out.

This expert lecture was coordinated by Dr. Meenakshi Sood, Dr. Shruti Jain of ECE department.



Invited Talk on

## ADVANCEMENTS METHODS OF BIOMEDICAL SIGNAL PROCESSING

By Mr. Muktesh Sharma, ADInstruments

October 11, 2019

Mr. Muktesh Sharma delivered a special session on 'Advancements methods of Biomedical Signal Processing' on Oct 11, 2019. He introduced the students with ADInstruments which is a teaching module i.e. e-learning software that helps a person understand the basics of a topic be it a language like C or signals. Teachers can use this software to make lectures which can be later shared among the students. This software also gives the students ability to perform the practical on this software virtually. Students were made aware about DELSYS which is a patent device that records



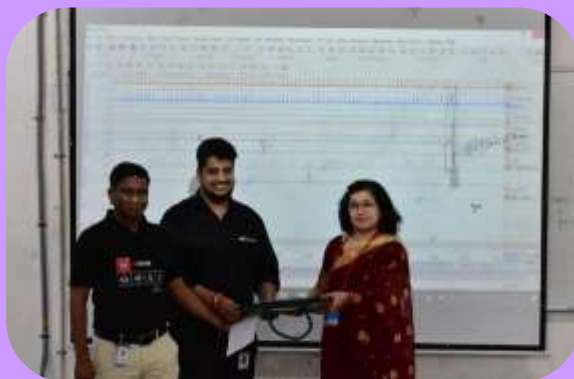
applications of such signal processing software are Ergonomics (the application of psychological



the effect on muscles of a body during activities like walking and running. Exercise Physiology System is software used to monitor the level of oxygen consumed and carbon dioxide exhaled during extensive activities. One of the practical



and physiological principles to the design of products, processes and systems), Industrial design and Robotics. The session added to the students' knowledge and made them realise the importance of technology.



Invited Talk on

## TOOLS AND TECHNIQUES IN BIOMEDICAL SIGNAL PROCESSING

By Ms. Taranmeet, Gentech Marketing & Distribution Pvt Ltd

October 10, 2019

Miss Taranmeet from Gentech Marketing & Distribution Pvt. Ltd. gave a special talk on the topic "Tools and Techniques in Biomedical Signal Processing" on Oct 10, 2019. She acquainted the students with advancements of technology in medical domain. Gentech Marketing & Distribution is the sole distributor of BIOPAC systems U.S.A., which deals in human and animal research equipment; it is an old standard in the field of biomedical research, relentlessly assisting vision to support medical research by marketing, installation, technical and service support. It has touched more than 500+customer colleges, medical schools, R&D labs and research institutes all over India. During the talk, she also demonstrated live ECG (electrocardiogram) and PPG(pulse plethysmography) and extracted heart rate , RR interval , all this was done wirelessly on

live subjects. They have world-class hardware features, as they provide educators with the most sophisticated hardware in the industry, with a research-grade 2 or 4-channel data acquisition platforms with built-in universal amplifiers to record and condition electrical signals from the heart, muscle, nerve, brain, eye, respiratory system, and tissue preparations. The data acquisition system receives the signals from electrodes and transducers and connects to a PC running BSL software on Windows® or macOS® operating systems. BIOPAC student lab is the gold standard for life science instruction.

It was a great opportunity to know the milestones technology has achieved .Students walked out of the session enthralled after knowing the prominent role science plays in our lives.



Leadership Talk Series

## SESSION WITH MHRD MINISTER DR. RAMESH POKHRIYAL NISHANK

August 21, 2019

The Indian Leadership Talk Series Session with the Union Minister for Human Resources and Development Shri Dr. Ramesh Pokhriyal Nishank was screened at the TIED cell. The session was very informative and the students had a lot to learn from the various issues that were discussed during the session. Various questions from students across the country were answered by the minister along with discussion on the decline of educational



institutes in the country, and their emphasis on education, training and research and how all these factors are crucial in the development of the country as a

whole. Dr. Ramesh Ji also shared the vision the Union Government has for increasing the national standards of imparting education. The students found the session very motivating.



Workshop on  
**VIRTUAL LABS**

September 20 – 21, 2019

A workshop on Virtual Labs was organized successfully on 20/09/2019 & 21/09/2019 at Jaypee University of Information & Technology, Solan for faculty members and students from respective disciplines (ECE, CE, CSE, IT, First Year) by Virtual Labs team, IIT Delhi. Virtual Labs mentors for this workshop were Mr. Prateek Sharma, Mr. Shivam Sundaram & Mr. Shiv Arora. Total of 323 Students and 11 Faculty members attended the workshop. The detailed report of the workshop is given below:

- Kirchhoff's Law • Factorials • Strings • Sorting
- Study of sampling theorem, effect of under sampling.
- Projectile Motion • 8051 Microcontroller • Acid-Base Titration • Preparation of Sols • Newton's Ring • Search Tree • Hall's Effect

In total, 323 students and 11 faculty members of CSE, CE, ECE, IT have performed on 7 experiments. The total number of hands-on usage was 2338. The workshop was coordinated by Dr. Hemraj Saini.

Experiments Demonstrated (Hands-on Session):



TIED Cell

## E-SUMMIT 2019

September 28 – 29, 2019

Technology Incubation and Entrepreneurship Development Cell (TIEDC) of Jaypee University of Information Technology Wanknaghat organised , an Annual Entrepreneurship Summit (E-summit'19), during 28<sup>th</sup> – 29<sup>th</sup> September 2019. Honorable Vice Chancellor, Prof. Vinod Kumar, in his inaugural address emphasised on importance of such type of events and provided an insight into how things work in real life and prepare youth on how to face and solve problems. Prof. Samir Dev Gupta, Director and Academic Head highlighted the importance of startup in Indian perspective and how it can change the economy of Nation. The registrar, Maj General ( Retd.) Rakesh Bassi addressed the participants and welcomed all to the University campus. Dr. Ashish Kumar, Nodal officer Incubation centre, in this occasion highlighted the importance of spreading awareness among the budding entrepreneurs regarding various industries, career opportunities and most importantly 'ENTREPRENEURSHIP'. Under this event various competitions like Ideathon, Startup Expo, Entrepreneurship talks, Startup Evaluation, Business Quiz, Board room meetings, HP startup grand challenge, Investors Simulator etc. conducted. In the event 120+ registration were received and out which around 60+ participants were from different colleges and Universities



namely Delhi University, PEC Chandigarh, IET Lucknow etc. All of them actively participated in different events of the E summit.

Renowned personalities like Sh. Paresh Gupta, Founder Gcec & 4 times Tedx speaker; Sh. Tanmaya Jain, Founder Infeedo; Sh. Saurabh Dayal, Co-founder Cleardekho.com; Sh. Vishal Kumar, Founder, Learning while Travelling; Sh. Lovejot Singh, Director at Cyber Defence Intelligence; Sh. Ashish Kumar, President of Bihar Social Entrepreneur Association (BSEA) Delhi; Sh. Vasishta Chary, Ascian Soulations Thesratuptoday; Sh. Anuj Sharma Founder, Localguy and many others were presided the event.

Ms. Deepika Khatri , Deputy Director, Department of Industries HP was the chief guest of the closing ceremony. The event ended with vote of thanks from faculty coordinator, TIEDC Dr. Nishant Jain, and Students Coordinator, TIEDC Mr. Shikar Srivastava.



TIED Cell Organised

## STUDENT ENTREPRENEURSHIP WORKSHOP

August 03 – 04, 2019

Technology Incubation and Entrepreneurship Development Cell (TIEDC) of Jaypee University of Information Technology organised a Entrepreneurship Workshop on 3rd and 4th Aug 2019. The two-day workshop imparted essential knowledge about an individual's personality, opportunity recognition, business model canvas and pitching of business ideas. There were around 330 participants for this workshop.

### Day 1

The scheduled programme began with a brief introduction to entrepreneurship, team development, value proposition by our Chief Coordinator Mr. Shikhar Srivastava, 4th year B.Tech ECE student of our University. To add up a wave of excitement, the candidates were made to speak up randomly different words thereafter



teams of five were made. The team leaders were made to choose three words from the same listed nouns and thereby they had to frame a start-up idea using those words. The mentors from the 3rd & 2nd year TIEDC members, assisted the teams in their idea development, key metrics and in another half-an-hour the teams were ready with their descriptive panels. Next proceeding was the IDEA PITCHING. The day's program ended with an interactive and descriptive Value Proposition

Model Discussion (With peers and mentors).

### Day 2

The scheduled programme for the day had major concern to accomplish the candidates with the Business Model Canvas. The Chief Coordinator of the cell, Mr. Shikhar Srivastava, addressed the audience with the basic value proposition model describing the key aspects of the Business Model Canvas. Thereafter, the mentors from 3rd year addressed the audience on the basic concepts of business development: Marketing, Finance, corporate relations and shares investment. This was followed by the mentoring in the preparation of the Business Model Canvas, which included filling up the segments of Idea development, Key metrics, key resources, cost structure, revenue generation, customer relationships and channels.

Thereafter, the teams were called up on the stage to pitch their ideas and describe their Business Model Canvas, on the basis of which they were internally judged. The final results put smiles on the faces of the winning three teams, as these teams would be helped further with their ideas in TIEDC. The workshop ended enlightening the participants to work on innovation, and lead their ideas to accomplishment.



Centre of Excellence in  
Sustainable Technologies for Rural Development

## **TRAINING ON ORGANIC FARMING TO STUDENTS OF GOVT. COLLEGE, SOLAN**

August 09, 2019

Forty Five students of B.Sc. from Govt. College Solan along with their teachers Sh. Rajinder Prakash and Smt. Banita Saklani visited Jaypee University of Information Technology (JUIT) for training in Organic Farming and waste management. The training was coordinated by the Centre of Excellence in Sustainable Technologies for Rural Development, Department of Biotechnology and Bioinformatics conducted this training. Dr. Sudhir Kumar, Head of the Department coordinated the visit for students. Students

learnt the ways to produce vermicompost and fabrication of pits for earthworms. Vermicompost is a nutrient rich fertilizer containing water-soluble nutrients and act as soil conditioner. This is one of the most sustainable ways of organic farming. Bioslurry (brown gold) a byproduct of biogas reactor was also shown to student which is used to improve soil structure and soil fertility. They also learnt the functioning of food waste based biogas reactor. Dr. Garlapati Vijay Kumar coordinated the Lab. visit of the students.





Entrepreneurship Webinar by JUIT Alumnus

## **MR. ASHISH AGGARWAL, HERBERT UNIVERSITY, USA**

October 12, 2019

Entrepreneurship Webinar was a knowledgeable session organised by TIEDC cell. The event started at 7p.m with Mr. Ashish Aggarwal, who is JUIT alumnus and now working as Lecturer at Herbert University, USA. The topic of webinar was entrepreneurship and basics from Zero to One book. After a brief introduction, the session started with discussion on increasing general reasoning and other complex and abstract strategies. He emphasized that generating value from unconventional things, customer satisfaction and building a definite optimism. He explained competition as a destructive force and business to be taken as a qualitative measure. Students asked questions related to choosing teams for startup, the luck factor, job or start-up or higher studies

and importance of timing. The session ended with a light-hearted talk about college. The whole event was a great source of learning where students discovered new dimensions of entrepreneurship.



Orientation/Awareness Programme

## **USER AWARENESS ON ACM DIGITAL LIBRARY**

September 26, 2019

On 26<sup>th</sup> September 2019 an expert presentation and training session on ACM Digital Library was organized by Dr. Pradeep Kumar Singh, Coordinator-JUIT, ACM Chapter HP/Computer Society of India (CSI) in collaboration with Learning Resource Center [LRC], Jaypee University of Information Technology, Waknaghat, HP. The session was presided over by Mr. Chandrakant Tiwari (GIST Client Services) on behalf of Association of Computing Machinery (ACM).

The session was attended by B.Tech 3rd and 4th students, M.Tech students, PhD Research Scholars and

Faculty members of JUIT. Mr. Chandrakant Tiwari talked about how students/ scholars can save their time for research work using ACM Digital



Library and browse titles by subject areas, recent publications, Special Interest Groups (SIGs), literature by type, advanced search, matches fields etc., to find specific information across all ACM DL content, also talked about how to start new publications with ACM DL.

Through his talk, he informed everyone about knowledge sharing and collaboration with other team members and about building a library of articles for future references. He informed students ACM alerts on the new contents and journals of one's interest. After the session a feedback by asking questions/doubts was taken from the attendees and everyone found the session informative and useful.



JUIT - IEEE Student Branch

## **ORIENTATION AND INTERVIEWS**

August 12 – 13, 2019

IEEE-SB JUIT organised an orientation session for the upcoming buds on 12th and 13th August. VICE Chancellor (Prof.) Dr. Vinod Kumar and the Faculty Coordinator of IEEE Dr. Meenakshi Sood graced the occasion with their benign presence.

The session inaugurated by an introductory speech Chairperson Saurabh Jain. The club's motive to enhance a students' technical domain and prepare them for the outer world competition was made comprehensible. He made the first-year students acquainted by his council. The students were also addressed by VC Sir to give them a broader idea about IEEE and its notable contribution in the technical events of the college. To encourage active participation, Meenakshi ma'am also interacted

with the new comers. After briefing about everything, interested students went through a small selection process for the same. The interviews were taken by the club members. Out of 250 students, the council selected 103 students for this tenure.



JUIT - IEEE Student Branch

## **2-DAY WORKSHOP BY CETPA**

August 31 – September 1, 2019

To live up to the hype, IEEE-SB JUIT kick started its new tenure by organising its first 2-day workshop of this tenure for the upcoming buds. The main motive of the workshop was to make students congenial to "C PROGRAMMING AND DATA STRUCTURES". It inaugurated on 31st August, 2019 and the enthusiastic involvement of students was discerned. Two mentors from CETPA hosted the event and helped out the students to gain clarity. 60+ students attended the workshop and were awarded certificates for active participation.



JUIT - IEEE Student Branch

## PROGRAMMING

August 19 – 21, 2019

IEEE-SB JUIT conducted daily sessions on different domains of IT, one of them being C programming. These sessions were introductory and interactive. The students were told about what C programming which include basic logics, how it executes and other basic syntax. The sessions were taken by Priyanshu (3rd year) for a strength of 40-50 students. The session was followed by doubt clearing hour, tests and activities making it much more interactive.



JUIT - IEEE Student Branch

## CLOUD COMPUTING

August 22 – 24, 2019

When it comes to business IT, there is perhaps no more common topic of conversation than cloud computing; so to make the students familiar with this topic, IEEE-JUIT SB conducted a session on the basics of Cloud computing. The concepts and applications were explained and various doubts were cleared. It was taken by Karamjeet Verma and approximately about 40-50 students were present.



JUIT - IEEE Student Branch

## GRAPHIC DESIGNING

August 26 – 28, 2019

IEEE-SB JUIT conducted daily sessions on different domains of IT, one of them was Graphic designing. The sessions were informative and explained to the students what good designing is actually about. The tools used for designing were introduced such as Adobe Photoshop and CorelDraw. The sessions were taken by Karamjeet Verma and the total strength of students was approximately 40-50. All in all the session helped students in learning better designing skills.



JUIT - IEEE Student Branch

## INTERNET OF THINGS

August 29 – 31, 2019

IEEE Student body organised IOT sessions for the students. The session was hosted by Mr. Tarun and was attended by approximately 50 students. All the query and doubts were cleared by the mentors present. The session made the students realise the significance of IOT and its applications. Different practical based applications were also showcased on arduino. It was a fruitful and constructive session.



JUIT - IEEE Student Branch

## WEB DESIGNING

September 12 – 14, 2019

The main motive of the session was to make students congenial to “Web Designing and Development”. The session was taken on 27th August 2019 and would be continued in the upcoming weeks on consecutive Tuesdays. Students were given an insight into the basics of Web Development and its industrial application. Over 50 students were present for the session. The students were extremely enthusiastic about the session and their participation clearly highlighted. The session was mentored by Saurabh Jain and Tarun Sharma.



JUIT - IEEE Student Branch

## CODING COMPETITION

August 27, 2020

A Coding Competition was conducted by IEEE-JUIT-SB which tested the knowledge and skills of the fresher's on how good they can code. In keeping with its motive to provide a plethora of opportunities in the technical domain and expanding our reach we tried to find the brightest coding minds through the coding challenge and reward the best coders with lucrative prizes. The first prize was bagged by Kunwar pratap singh and the runner ups were Aman Tiwari and Piyushika Sachdeva.



Annual Sports Fest  
**PRAKARAM 2019**

Jaypee University of Information Technology hosted its annual sports fest - "Parakram" on the 4th-5th of October. The fest was declared open after a traditional lamp lightening by the guests



and an oath-taking by the players. About 250 students accompanied by their coaches/referees from various colleges across India, including Chitkara University, PEC, IIT Ropar, UIET and



JNGEC were participated in the tournament. The participants engaged in cut-throat competitions in Volleyball, Basketball, Table Tennis, Handball, Badminton and Chess through the course of these two days. The teams were divided into two pools.



The first day of the tournament saw very competitive matches, and an equally enthusiastic audience response. The second day witnessed the final and semifinal clashes between the winners of



respective pool games. The day began with basketball semifinals, for both girls and boys, and girls' volleyball finals. The audience thoroughly enjoyed and cheered for their favourite teams, as



teams gave it all in their semifinal and final clashes. Chitkara University won the Girls Volleyball Final, and JUIT team was the runner-up. Basketball, table tennis and badminton finals were also very competitive with players showcasing



exemplary sportsmanship, team spirit and exceptional technical skills.

The closing ceremony was held in the evening to facilitate the winners. Winners and runner-ups were awarded with medals, cash prizes and certificates by the Registrar and Dean of Students Major General (Retd.) Rakesh Bassi, Dr. Amit Srivastav and Prof. Ashok Gupta. The overall championship trophy- the House Cup was awarded to Chitkara University, Rajpura for winning the gold medals in Basketball, Volleyball, Table Tennis and Badminton. All in all, the event was a huge success and developed true sportsmanship among students.



Game	Winner	Runner-up
Basketball (Boys)	Chitkara Univ., Rajpura	Chitkara Univ., Baddi
Basketball Girls	UIET	Chitkara Univ., Rajpura
Volleyball (Boys)	Chitkara Univ., Rajpura	JUIT
Volleyball (Girls)	Chitkara Univ., Rajpura	JUIT
Badminton (Boys)	Chitkara Univ., Rajpura	JIIT, Noida
Badminton (Girls)	Chitkara Univ., Rajpura	JUIT
Table Tennis (Boys)	Chitkara Univ., Rajpura	UIET
Chess (Boys)	IIT, Ropar	Chitkara Univ., Rajpura
Handball (Boys)	JUIT - B	JUIT - A



Freshers' Night  
**DIKSHA 2019**  
August 17, 2019

Jaypee University Of Information Technology diligently organised Diksha 2019-The Freshers Night on 17th August, 2019 to whole heartedly welcome its new students and start the next semester in high spirits. Vice Chancellor Prof. (Dr.) Vinod Kumar, Director & Academic Head Prof.(Dr.) Samir Dev Gupta, Registrar Maj. Gen. Rakesh Bassi, Dr. Ruchi Verma, JYC Chairperson Dr. Amit Srivastva, JYC President Pradyumn Agarwal graced the occasion with their benign presence. As a trend of the institute, the event began with the auspicious lamp lighting. Exuberant dance performances were displayed by the dance groups of the university. It manifested youth and enthusiasm at its best. Stage Players and Young Thespians unveiled a vibrant play and a contagious mime. The other participants came up with a unique ramp in pairs. The freshers showcased their talents in

the best possible way and left everyone in awe. The audience enjoyed to the fullest when folk dances were exhibited by United Bhangra Crew and Pakke Pahadiye. Pulsating ambience, flashing lights and foot-tapping music, set the mood of the occasion right. The excitement augmented to a joyful high as performances graced the stage. The mercury began to rise, the dance floor was left open for some unbridled energy. Joy and happiness could be seen among students of each and every course at the college. After all the dance performances, the result for this great evening was declared. It was a stage of achievement for Miss Freshers' and Mr. Freshers'. The event concluded with a vote of thanks by The commendable efforts and meticulous planning of the organisers made the event a victorious one!



Cultural and Music Club

## DANDIYA NIGHT

October 07, 2019

The Cultural and Music Club, JYC successfully organized first ever "Dandiya Night" on October 7th 2019. The event was inaugurated by the Director & Academic Head Prof. Samir Dev Gupta and Registrar & DOSW Maj. Gen. (Retd.) Rakesh Bassi by playing Dandiya. The event started at 6.30pm and lasted for about 1.30 hrs.

More than 150 faculty/staff members and students were enjoyed the event. Prof. M. J.

Nigam (HoD ECE) and Prof. Ashok Gupta (HoD Civil) were also enjoyed the function. Everyone was in full mood to celebrate the event and wore the attire which suits for the event. Mr. and Ms. Dandiya was also given to Mr. Somya and Ms. Simran respectively. University administration arranged Tea and Pakora for all the participants that was highly appreciated and enjoyed by the participants.





150<sup>th</sup> Birth Anniversary of Mahatma Gandhi

## JUIT CELEBRATED

### 'BAPU SAMARAN NIDHI'

October 01 – 02, 2019

The Jaypee University of Information Technology, Wanknaghat (JUIT) celebrated the 150th Birth anniversary of Mahatma Gandhi as part of the overall concept of 'BAPU SMARAN NIDHI'. An array of events were organised to pay tributes and homage to the 'Father of the Nation'. A brief summary of events conducted in commemoration of Gandhi Jayanti is given below.



#### FLORAL TRIBUTE TO GANDHI JI

The Gandhi Jayanti celebration started at 11:00am in the morning of 1<sup>st</sup> October 2019 with the floral tributes to Mahatma Gandhi Ji by the Hon'ble Vice Chancellor Prof. Vinod Kumar, accompanied by the Director & Academic Head, the HoD's of Departments, faculty, staff and students. This was done aptly under the 20 feet by 10 feet panel with Gandhiji's photo and his famous quotes installed in the Academic Block.



#### DEBATE COMPETITION ON 'RELEVANCE OF GANDHIAN PHILOSOPHY IN THE 21ST CENTURY'

Department of Humanities and Social Sciences organized an English debate competition on the topic "Relevance of Gandhian Philosophy in the 21st Century". The aim of the competition was to hone public speaking skills of the students and to know their thoughts and opinions on Gandhi's philosophy.



#### BOOK EXHIBITION ON GANDHI JI

The Learning Resource Centre of JUIT organized an exhibition of books on or about Mahatma Gandhi Ji. This display of popular books was inaugurated by Hon'ble Vice Chancellor Prof. Vinod Kumar. The books included Gandhi's autobiography, biographies and books highlighting his contribution and viewpoints on various aspects of human kinds or society.



#### SWACHHATA ABHIYAN

The Dept. of CSE & IT organised a Swachhata Abhiyan. This cleanliness drive took place on 1st October, 2019. The faculty and staff members actively participated in this drive.



#### OPEN HOUSE COMPETITION ON GANDHIAN THOUGHTS AND PRINCIPLES AT THE WORKPLACE: PERSPECTIVES AND INSIGHTS

The Department of Humanities and Social Sciences has also arranged an 'Open House Competition' on the topic "Gandhian Thoughts and Principles at the workplace – Perspectives and Insights".



#### A TALK ON GANDHI JI

A talk on Gandhi Ji and his life was organised by the Department of Computer Science Engineering and Information Technology.



### USED CLOTHES COLLECTION AND DISTRIBUTION DRIVE

The Department of Biotechnology and Bioinformatics in collaboration with Department of Mathematics organized 'Used clothes collection drive'. Four bags of clothes were collected as a part of donation drive. Clothes collected at different collection centres were brought to the Open Cafeteria, where they were packed in cartons and sent for distribution for nearby slum dwellers and poor or needy ones.



### POSTERS AND MODELS COMPETITION ON 'SWACHH BHARAT ABHIYAN'

Department of Biotechnology and Bioinformatics, JUIT Waknaghat organized a poster and model competition based on theme 'Swachh Bharat Abhiyan' for the local schools of the region. 14 teams from six different schools (Class X, XI & XII) participated in the event.



### POSTER MAKING COMPETITION ON GANDHI JI

The Department of Civil Engineering organized a poster design competition in Open Café at 1.00pm on 1st October 2019. The theme of the competition was 'Gandhi Ji'. The participants were provided with all required materials for designing posters by the Department.



### TREE PLANTATION DRIVE

A tree plantation drive was organised at Dhyari Ghat, Solan. 150 saplings were planted as a befitting tribute on 150th Birth Anniversary of Mahatma Gandhi Ji. The chief guest for the tree plantation drive was SDM of Kandhaghat Mr. Sanjeev Dhiman who along with Solan BJP senior minister Mr. Rajesh Kashyap, ex-minister Mr. Mahendra Nath and AIREF company representative Mr. Deepak Dogra actively participated in this tree plantation drive. The slogan for the event was "Clean India Green India".



### LECTURE ON DEFORESTATION

The tree plantation event was followed by speeches of SDM Kandhaghat, Vice Chancellor JUIT and other dignitaries who explained the importance of tree plantation and how thousands of trees were destroyed during the four lane work. In order to compensate the loss, twice the number of trees would be planted and how these trees will help in maintaining a clean environment.



### GANDHI JAYANTI CEREMONY AT THE JUIT TEMPLE

On 2nd October 2019 a programme on Bhajan Recitals on Gandhi Ji and Ram Bhajans was organised in the temple. Faculty/ staff members, their families and students participated in the event. The Music club of JUIT coordinated this activity.



### NUKKAD NATAK

The event came to an end with the energetic performance by Dramatics Club through a Nukkad on Swachh Bharat in Basket Ball Court at 4:00 PM in the presence of all.



## MASTER-CHEF 2019

September 14, 2019

Cooking is one of the strongest ceremonies for life. When recipes are put together, the kitchen is a chemical laboratory involving air, fire, water and the earth. On 14th September 2019, Health and Environment Club of Jaypee University of Information Technology organized the Master-Chef Competition to showcase the cooking skills of the college students at "Basket Ball Ground". The event was graced by Registrar Major General Rakesh Bassi, Director and Academic Head Prof. Dr. Samir Dev Gupta and Prof. Dr. M.J.Nigam, JYC Faculty Incharge Dr. Amit Srivastava. The Judging panel consisted of Mrs. Vibha Bassi, Mrs. Kumkum Nigam and Mrs.

cooking time. Basic amenities like gas stoves, cylinder, and all the ingredients (including vegetables) were provided to students in advance, by JUIT, therefore the participants need not to bring anything from their own. Students participated with full enthusiasm and high zeal and came up with exotic and delicious dishes. The dishes were a visual treat presented in an artistic and aesthetic style. The ambience was very exuberant accompanied by our budding singers. The first prize was bagged by a group of four- Silky Agarwal, Ananya Sood, Nadirun Nisha and Arthja Shukla. The first runner ups were Pranjal, Vineet, Shruti and



Sarika Srivastava. Dr. Anupriya Kaur, HoD HSS was the Coordinating Chairman of the event.

There were total 13 teams, consisting of 2-4 members, participated in the event. The theme of the event was "Indian and Continental". The competition was restricted for 75 minutes of



Deepti, and the second runner ups were Teammates Tripti, Priyansha, Anjali and Sulbha. 'MasterChef 2019' not only provided a platform for the students to foster their creativity and culinary skills but also allowed them to interact with teachers outside academic setup.



Celebrations

## INDEPENDENCE DAY

August 15, 2019

The 73<sup>rd</sup> Independence Day celebration ceremony started with the unfurling of National Flag by the Hon'ble Vice Chancellor of the University, Prof. Vinod Kumar ji and National Anthem was sung. The Vice Chancellor addressed the audience and urged all to contribute their bit in the nation building process. The students, faculty and staff members along with their families were participated in the ceremony. The pinning of



National Flag pins on Security Guards and other present there was also performed.

Students presented a nukkud natak and invoked the patriotic feelings among everyone. The high tea was served to all present in the Independence Ceremony.



Hindi Diwas Celebration

## HINDI DEBATE COMPETITION

September 14, 2019

Literary and Dramatics Club successfully hosted the Hindi debate competition. The event, first of its kind in the campus was a huge success. After a short round of shortlisting, 10 students made it to the final round which was organised on the occasion of 'हिंदी दिवस'. The topic of the debate was 'विदेशी सभ्यता का भारतीय संस्कृति पर प्रभाव : वरदान या अभिशाप |'

Prof. Sameer Dev Gupta, Director and Academics Head, Prof. P B Burman, HOD physics department, Dr Amit Srivastav, faculty

coordinator JYC were the guests for the event. Dr Rakesh Kumar Bajaj, Dr Hemant Sood along with Dr Ashish Kumar Rohila were the judges for the 'तेक संग्राम'.

Each and everyone who witnessed this first ever Hindi debate had a gala time and appreciated the constant day and night efforts of the energetic and bustling students. In a nutshell everyone got something out of it and as being the first of its kind it created a lot of buzz around!



## JUIT ANNUAL BOOK FAIR

September 12 – 13, 2019

A two day annual book fair was organised The Learning Resource Centre of the University has organised a two day annual book fair on the campus during 12 – 13 September 2019. Prominent publishers, like Sage, Pearson, Oxford University Press, Cambridge University Press, TMH, PHI Learning, Viva Books, etc displayed their latest publications in the University's core areas of learning. Students

were found exciting to browse books dealing with competitive exams and fictions.

The faculty and students recommended books to the library and they also purchased books for their personal reading. Faculty and students were in the opinion that such events should take place on the campus on regular basis.



Orientation/Induction

## ORIENTATION PROGRAMME FOR NEW STUDENTS

July 19 – August 03, 2019

A two weeks orientation programme for newly joined students (1st Year) was conducted in the University from 19th July to 3rd August 2019. The aim of this programme was to enable, students fresh from school life, to settle down into University life. Towards this end the structure of the programme primarily focused on motivational talks, physical activities and campus awareness activities.

All registered students were divided in six groups, each group was coordinated by four faculty members and the senior most faculty member amongst them was nominated as Group In-charge.

The detailed two weeks time table was



complied and circulated among all six groups to minimize any hassle with respect to arranged activities. All physical activities such as sports, yoga, nature walks, campus awareness walks were conducted early morning from 6:30a.m to 7:30 a.m and other events were started at 9:00a.m onwards. Various Guest Lectures on core issues of students' lives, motivation, ethics,



values, health, psychology, self healing, environment etc were arranged everyday during the programme. The

events such as visit of departments, labs, library, mess, NAD and Biometric registration and visit to important parts of the campus were meticulously scheduled and arranged. Even activities outside the campus such as visit to Indian Institute of Advanced Studies in Shimla, trek to Tara Devi and Unnat Bharat Abhiyan activities had a sizeable involvement of both faculty and non-teaching staff.



At the end of orientation programme a feedback of all talks-cum presentations and the various activities conducted was taken from each student. It was evident from the feedback and presentations that the programme had achieved its objectives and was very well received by the students.



Event organised by SDM Kandaghat

## JUIT PARTICIPATION IN SWACHHTA PAKHWADA

October 15, 2019

Jaypee University of Information Technology Actively participated in Swachhta Pakhwada organized by SDM Kandaghat at Wagnaghat on 15th October, 2019 at 2PM. Group of 50 students from 1st Year to 4th Year voluntarily participated in this event. They board the University Bus at 1: 45 PM and reached Wagnaghat at 2PM. Dr. Saurav Faculty In charge of Environmental Club also accompanied them. Persons involved in this Swachhta Abhiyan were SDM Kandaghat and his team, Gram Pradhan Wagnaghat, BDO Wagnaghat and Local Women, students from Jaypee university of Information Technology and Bhara University. After reaching Wagnaghat students were asked to put their signature on the



एक कदम स्वच्छता की ओर

attendance sheet provided by the local administration and then brief introductory speech was delivered by Sub divisional Magistrate (SDM) Kandaghat regarding single use of plastic. Then students were divided into smaller groups and proceed for Swachhta Abhiyan towards National Highway (Shimla side) upto Sabzi Mandi and return back. The main focus was confined to collection of plastic dumped onto NH. After 1 hour they again gathered at Wagnaghat Chowk. SDM Kandaghat gave a closing speech to students and appreciated the work done by Jaypee University students for their voluntary service towards cleanliness drive. All Jaypee university Students and Staff Returned to University by 4: PM.





Outreach activities

## **STUDENTS FROM PINEGROVE SCHOOL, DHARMPUR VISITED JUIT**

September 13, 2019

A group of 27 students and 3 teachers visited Jaypee University of Information Technology on September 13, 2019. This visit was facilitated as part of outreach program of Jaypee University Waknaghat. Dr Anil Kant, Dr Vijay Kumar Garlapatti and team of PhD scholars consisting of Mr Deepak, Arvind, Neha and Swati coordinated the activities during this visit. An overview of University and its' academic programs was provided by Prof. Sudhir Kumar. The students were taken in two groups to different laboratories of Department of

Biotechnology and Bioinformatics, Computer Science Engineering, Electronic and communication Engineering, and Civil Engineering. The faculty incharge and PhD scholars showcased the facilities available and major research activities going on in respective labs. Besides this students also visited the biogas reactor installed in the campus and learnt about its' design and working to convert kitchen waste into biogas. Lunch was served to visitors at Annapurna and feedback was taken about the visit.



Outreach activities

## LECTURE ON ALZHEIMER' DISEASE

September 21, 2019

An invited talk on Alzheimer's disease was delivered on the occasion of 'World Alzheimer's Day' by Dr. Tiratha Raj Singh (BT and BI department of JUIT) at Loreto Convent School, Shimla on 21 September 2019. Nearly 350 students and faculty members of the schools attended the lecture. The main objectives of delivering the lecture were to make students aware of neurological problem Alzheimer's disease and to make students familiar with new and emerging fields of studies such as Bioinformatics and biotechnology.

Dr. Tiratha Raj Singh delivered a talk on Alzheimer's disease (AD). The purpose was to introduce school students with the recent problems related to neurological disorders. As it was World Alzheimer's Day so it was also

important to discuss about AD with the students and teachers of the school. It was an interactive session and students enjoyed the learning towards brain, neurons and AD. It was also told to students that older people are mostly affected by this disease and therefore we need to take care of our grandparents for the same. It was also mentioned that care is the most important component for AD patients management. Students were also counseled about their various carrier options available after +2 and course offered by JUIT were also discussed in detail.

Dr. Tiratha Raj Singh was accompanied by Mr. Rohit Shukla (PhD scholar) and Ms. Aakriti Chauhan (BTech student) from the Department of BT and BI.



Outreach activities

## STUDENT COUNSELING AT ST. EDWARD'S SCHOOL

October 18 – 19, 2019

The JUIT has organised a student counseling session at St. Edward's School, Shimla on 18<sup>th</sup> – 19<sup>th</sup> October 2019 during the technical fest of the school.

Dr. Tiratha Raj Singh with other faculty members and PhD scholars participated in this event. The purpose was to introduce various school's students about the various engineering and science programs offered by Jaypee University of Information Technology (JUIT), Wagnaghat. The

discussions were also held about the JUIT courses, fee structure and the university rankings. The JUIT placement record and PhD selection in various international universities were also discussed. The gathering enveloped students from several schools, and colleges and JUIT team has educated them about various upcoming career prospects in their lives. They were also informed about various engineering and science courses offered by JUIT after 10 + 2 class.



Technology Extension

### FABRICATION OF 02 BIOGAS REACTORS IN KANPUR

July 15 – 17, 2019

Two biogas reactors of 3000 capacity each were installed at KFCL, Jaypee Plant, Kanpur. These



biogas reactors were fabricated at KFCL in the presence of Dr. Sudhir Kumar, Dr. Ashish Kumar and Karam Dass. The reactors run on leftover food waste of Annapurna of KFCL. This activity was jointly sponsored by KFCL, Kanpur and JUIT, Wagnaghat. The training was provided to the staff of Annapurna to manage these biogas reactors.

### INSTALLATION OF BIOGAS REACTOR AT GOVT. GIRLS SR. SEC SCHOOL SOLAN

September 20, 2019

Biogas Reactor Installation at (1500 litre digester and 1000 litre gas holder) at Govt. Girls Senior



Secondary School, Solan, HP. (20 September, 2019, sponsored by school Funds and supported by JUIT, Wagnaghat).

Special Achievement

## MS. PRAGYA GUPTA AS LIEUTENANT

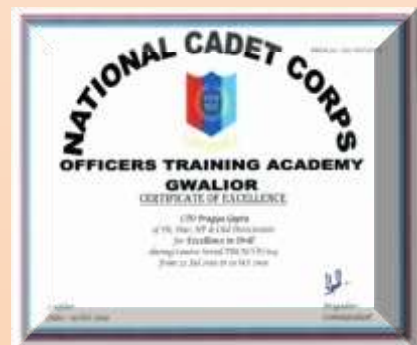
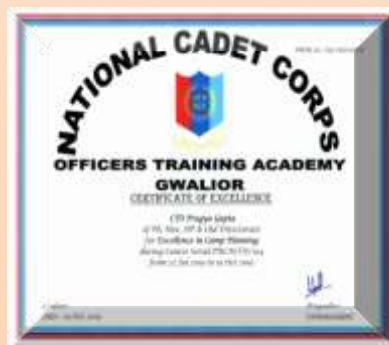
July – October 2019

NCC 1HP Girls battalion started in JUIT from July 2018. Miss. Pragya Gupta (Assistant Professor, ECE) takes over as caretaker of JUIT NCC Girls platoon. After one year she went to NCC Officer Training Academy (OTA), Gwalior for Pre-Commission course. There she underwent a rigorous training programme of three months duration, which included Basic Military Training, Personality Development, Instructional Skills & various exercises to conduct NCC training efficiently at the university. During training she participated in class room discussion, group



presentations other exercises. She has been awarded Commandant's Certificate for Excellence in Camp Planning and Drill. She completed the course with Alpha (A) Grading. After a successful

completion of three months course she got commissioned as Lieutenant with shining stars.



## PATENT GRANTED

A patent is granted to JUIT – “An embedded system for analysis of microstrip like interconnects” (Patent No. 319102, 27 August 2019) with reference number - 2443/DEL/2009. The inventor is Dr. Rohit Sharma of Electronics and Communication Engineering Department of JUIT.

## PATENT FILED

A patent on ‘A Novel N-Bit Compressor Based High-Speed multiplier Algorithm for Low Power Arithmetic Circuits’ is filed under the application no. TEMP/E-1/23170/2018-DEL and patent application number 201811022936 in July 26, 2019. The inventors of the patent are Rajkumar Sarma, Cherry Bhargava, Sandeep Dahariwal and Shruti Jain.

## DESIGN REGISTRATION FILED

Design Registration filed for Movable Biogas Reactor by Dr. Sudhir Kumar, Dr. Ashish Kumar, Ankur Choudhary and Karam Dass (Inventors). JUIT is applicant for this invention. This reactor is designed for Laboratory scale application. On the basis of its movability and salient features; design registration application was filed with Controller of General of Patents, Design and Trade Marks, Kolkata office (25 July, 2019).

## PROJECT SANCTIONED

A Network project on DBT Skill Vigyan is sanctioned to Department of Biotechnology and Bioinformatics, JUIT. This is in collaboration with HIMCOSTE. The project money sanctioned is 50 Lakhs. Date of Sanction: - 22 August, 2019. Dr. Gopal Singh Bisht, Dr. Rahul Shrivastava and Dr. Sudhir Kumar are the coordinators of the project.

## INVITED LECTURES, CONFERENCE/SEMINAR/WORKSHOP ATTENDED AND OTHER HONOURS/AWARDS

Dr Hemant Sood (Associate professor BT and BI) was the member of Advisory Committee of National Seminar on Strategies for Conservation & Sustained utilization for Biodiversity organized by Department of BT, School of Applied and Life sciences, Uttarakhand Univ.,Dehradun and Utrarakhand Science Education and Research Centre, DST( Government Of Uttarakhand.18th -19th Oct, 2019.

Dr Hemant Sood (Associate professor BT and BI) had guest lecture on Production of medicinal compounds for Commercial and Endangered Medicinal Plants through Cell and Tissue Culture Technology for Herbal Industry on 29th August 2019 in Refresher Training Course for Indian Forest Service Officers (IFS) at HFRI, Panthaghati, Shimla.

Dr. Tiratha Raj Singh under the aegis of CEHTI.Centre of Excellence in Healthcare Technologies and Informatics (CEHTI), JUIT organized an invited talk on the topic "Detecting False Discovery Rates in Proteogenomics" on 10th August, 2019. A renowned scientist Prof. Debasis Dash from IGIB, New Delhi delivered the talk.

Pardeep Garg, Assistant Professor in ECE attended an International Workshop of Artificial Intelligence-Reasoning and Learning during 6-7 September 2019 at North Cap University, Gurugram.

## PH.D SPOTLIGHT



Vandana Mohindru (136210) Research Scholar of Computer Science and Engineering Department completed Ph.D on 'PREVENTION OF NODE CLONE ATTACK: SECURE AND ENERGY EFFICIENT ALGORITHM IN WSN' under the supervision of Dr. Yashwant Singh (July 13, 2019).



Ankush Bansal (156501), Research Scholar of Biotechnology and Bioinformatics completed Ph.D on 'DEVELOPMENT OF COMPUTATIONAL PIPELINE AND FRAMEWORK FOR DIFFERENTIAL AND COEXPRESSION NETWORKS ANALYSIS' under the supervision of Dr. Tiratha Raj Singh (August 10, 2019).



Anchal Sharma (166604), Research Scholar of Civil Engineering completed her Ph.D on 'MUNICIPAL SOLID WASTE CHARACTERIZATION AND ANALYSIS IN HIMACHAL PRADESH' under the supervision of Dr. Rajiv Ganguly and Prof. Ashok Kumar Gupta (August 12, 2019).



Kushal Kumar (146752), Research Scholar in Pharmacy, of Biotechnology and Bioinformatics completed his Ph.D on 'EVALUATING PROPHYLACTIC EFFICACY OF TERMINALIA ARJUNA (ROXB. EX DC.) WIGHT & ARN., SANTALUM ALBUM L., AND NYMPHAEA X RUBRA ROXB. EX ANDREWS FOR ACUTE MOUNTAIN SICKNESS' under the supervision of Dr. M Udayabanu (September 30, 2019)



Mr. Arun Parashar (126751), Research Scholar in Pharmacy, of Biotechnology and Bioinformatics completed his Ph.D on 'NVESTIGATION OF THE EFFECT OF RUTIN ON TYPE II DIABETES MELLITUS ASSOCIATED NEUROLOGICAL COMPLICATIONS' under the supervision of Dr. M Udayabanu ( October 7, 2019).



Subhash Chand (156951), Research Scholar in Physics and Materials Science department, completed his Ph.D on 'SEMICONDUCTING BINARY AND ALLOYED SILVER CHALCOGENIDE QUANTUM DOTS: STRUCTURAL, MORPHOLOGICAL AND OPTICAL BAND GAP TUNING' under the supervision of Dr. Pankaj Sharma (October 19, 2019).

### IEEE OUTSTANDING STUDENT VOLUNTEER AWARD



Sanchit Garg (161051), Final Year Student of B.Tech in ECE department and Chairperson of IEEE Student Chapter at JUIT has conferred the 'Outstanding Student Volunteer Award' from IEEE Delhi Section for the year 2019.

### IEEE OUTSTANDING WIE VOLUNTEER AWARD



Himanshi Sharma (161012), Final Year Student of B.Tech in ECE department and Chairperson of IEEE Women in Engineering (WIE) Student Chapter at JUIT has conferred the 'Outstanding Student Volunteer Award' from IEEE Delhi Section for the year 2019.

# Intellectual Capital

## ***PUBLICATIONS IN JOURNALS***

Kapoor, S., Sharma, A., Bhardwaj, P., Sood, H., Saxena, S., & Chaurasia, O. P. (2019). Enhanced Production of Phenolic Compounds in Compact Callus Aggregate Suspension Cultures of *Rhodiola imbricata* Edgew. *Applied biochemistry and biotechnology*, 187(3), 817-837

Katoch, P., Bisht, G. S., & Shrivastava, R. (2019). In vivo infection and In vitro stress survival studies of acid susceptible mutant of *Mycobacterium fortuitum*. *International Journal of Mycobacteriology*, 8(4), 390-396.

Krishnamurthy, R., Rathee, G., & Jaglan, N. (2019). An enhanced security mechanism through blockchain for E-polling/counting process using IoT devices. *Wireless Networks*, 1-12.

Kumar, A., Bansal, A., & Singh, T. R. (2019). ABCD: Alzheimer's disease Biomarkers Comprehensive Database. *3 Biotech*, 9(10), 351-357.

Munjal, N. S., Shukla, R., & Singh, T. R. (2019). Chemometric approach to estimate kinetic properties of paclitaxel prodrugs and their substructures for solubility prediction through molecular modelling and simulation studies. *Journal of Chemometrics*, 33(11), e3181. 1-16.

Rathee, G., Sandhu, R., Saini, H., Sivaram, M., & Dhasarathan, V. A trust computed framework for IoT devices and fog computing environment. *Wireless Networks*, 1-13.

Rathee, G., Ahmad, F., Kerrache, C. A., & Azad, M. A. (2019). A Trust Framework to Detect Malicious Nodes in Cognitive Radio Networks. *Electronics*, 8(11), 1299.

Rawat, D., Barman, P. B., & Singh, R. R. (2019). Corroboration and efficacy of Magneto-Fluorescent (NiZnFe/CdS) Nanostructures Prepared using Differently Processed Core. *Scientific reports*, 9(1), 1-12.

Sharma, A., & Rani, R. (2019). Ensembled machine learning framework for drug sensitivity prediction. *IET Systems Biology*, 14(1), 39-46.

Sharma, A., & Rani, R. (2019). Drug sensitivity prediction framework using ensemble and multi-task learning. *International Journal of Machine Learning and Cybernetics*, 1-10. DOI: 10.1007/s13042-019-01034-0.

Sharma, D., Choudhary, M., Vashistt, J., Shrivastava, R., & Bisht, G. S. (2019). Cationic antimicrobial peptide and its poly-N-substituted glycine congener: Antibacterial and antibiofilm potential against *A. baumannii*. *Biochemical and biophysical research communications*, 518(3), 472-478.

Shukla, R., Munjal, N. S., & Singh, T. R. (2019). Identification of novel small molecules against GSK3 $\beta$  for Alzheimer's disease using chemoinformatics approach. *Journal of Molecular Graphics and Modelling*, 91, 91-104.

## **PUBLICATIONS IN CONFERENCE PROCEEDINGS**

Ayushi Sharma, Jitendraa Vashistt, Gopal Singh Bisht, Rahul Shrivastava (2019). High throughput screening of Mycobacterium fortuitum proteome for discovery of novel drug targets. Proceedings of the International Conference on Recent Advances in Agricultural, Environmental and Applied Sciences for Global Development (RAAEASGD-2019) [2nd : Dr. Y.S. Parmar University of Horticulture and Forestry, Solan, India : 27-29 September, 2019], pp.51.

Ayushi Sharma, Poonam, Jitendraa Vashistt, Gopal Singh Bisht, Rahul Shrivastava (2019). Identification and in-silico structure modeling of Mycobacterium fortuitum homolog of Mycobacterium tuberculosis lipase U. Proceedings of the Proceedings of the International Conference on Recent Trends in Biotechnology and Bioinformatics (ICBAB-2019) [Jaypee University of Information Technology, Solan, India : 01-03 August, 2019].

Garg, P., & Sharma, S. (2019, October). MGWT based Algorithm for Tandem Repeats Detection in DNA Sequences. In 2019 5th International Conference on Signal Processing, Computing and Control (ISPPCC) (pp. 196-199). IEEE.

Kiritka Thakur, Payal Thakur, Rolika Gupta and Hemant Sood (2019) Optimization of Culture Conditions in Different Hydroponic Systems for Propagating and Hardening of in vitro grown medicinal plants. National Seminar on Strategies for Conservation & Sustained utilization for Biodiversity organized by Department of BT, School of Applied and Life sciences, Uttarakhand Univ., Dehradun and Utrakhand Science Education and Research Centre, DST( Government Of Uttarakhand) 18th -19th Oct, 2019. pp.43.

Lalita Sharma, Rahul Shrivastava, Gopal Singh Bisht (2019). Synthesis, characterisation and evaluation of antibacterial activity of a 12 residue peptide A-12. Proceedings of the Proceedings of the International Conference on Recent Trends in Biotechnology and Bioinformatics (ICBAB-2019) [Jaypee University of Information Technology, Solan, India : 01-03 August, 2019].

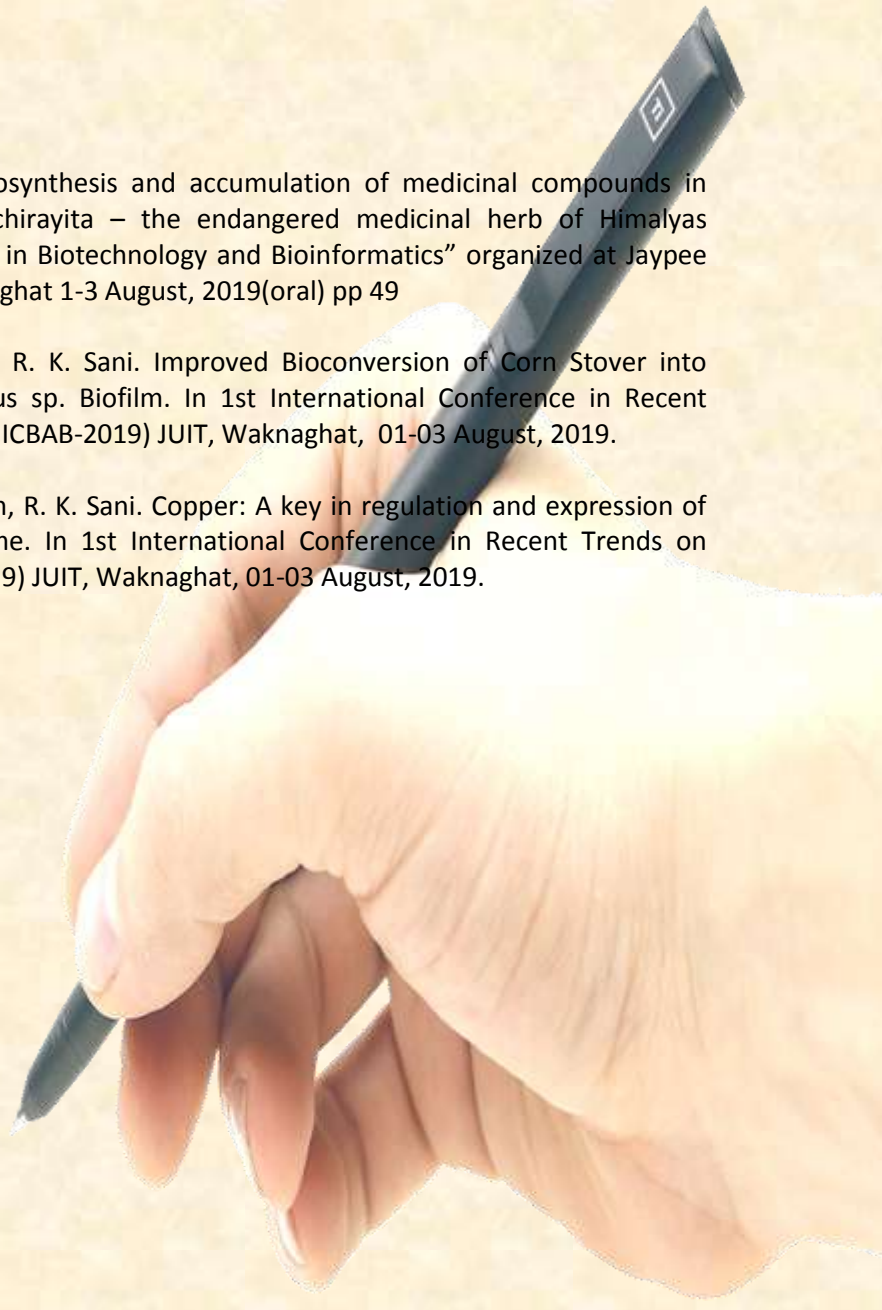
Monika Choudhary, Deepika Sharma, Gopal Singh Bisht, Rahul Shrivastava, Jitendraa Vashistt (2019). Antimicrobial potential of quercetin and curcumin against antibiotic resistant strains of Acinetobacter baumannii. Proceedings of the Proceedings of the International Conference on Recent Trends in Biotechnology and Bioinformatics (ICBAB-2019) [Jaypee University of Information Technology, Solan, India : 01-03 August, 2019].

P. Saxena, T. Govil, S. Kumar, D. R. Salem, R. K. Sani. Adaptive enrichment of an extremophilic bacterial isolate results in increased enzymatic activity. In 1st International Conference in Recent Trends on Biotechnology and Bioinformatics (ICBAB-2019) JUIT, Wagnaghat, 01-03 August, 2019.

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**जेपी यूनिवर्सिटी में जैव प्रौद्योगिकी और सूचना पर अंतरराष्ट्रीय सम्मेलन शुरू**

कोलकाता: जेपी यूनिवर्सिटी में अंतरराष्ट्रीय स्तर पर जैव प्रौद्योगिकी और सूचना पर अंतरराष्ट्रीय सम्मेलन का शुभारंभ किया।



**जेपी यूनिवर्सिटी में जुटेंगे देश-विदेश के शिक्षाविद**

**योग्य छात्रों को बाटे पुरस्कार**

जेपी यूनिवर्सिटी में अंतरराष्ट्रीय स्तर पर जैव प्रौद्योगिकी और सूचना पर अंतरराष्ट्रीय सम्मेलन का शुभारंभ किया।

**एक छत के नीचे आकर्षक पुस्तकें**

जेपी विश्वविद्यालय में दी दिव्य हिमाचल 2019 सम्मेलन में एक छत के नीचे आकर्षक पुस्तकें

**रिक्टर पर पक रहा खाना**

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