

National workshop on 'Statistical Techniques in Biological and Medical Sciences'

Department of Mathematics and BI/BT Jointly organized a one week **national workshop** on Statistical Techniques in Biological and Medical Sciences (STBMS-2018) during 4-9 June, 2018. It was the second edition of this workshop, coordinated jointly by Dr. Neel Kanth and Dr.Tiratha Raj Singh.



Workshop on Statistical Techniques in Biological and Medical Sciences
STMS-2018

Interactive Lectures & Lab sessions by Experts on Statistical Tools, Techniques and Their Applications

June 04 - 09 2018

Topics to be covered

- Descriptive and Inferential Statistics
- Correlation and Regression: Product Moment Correlation, Rank Correlation, Multiple Regression
- Analysis of Variance (ANOVA)
- Factorial Designs
- Approximate Testing: Parametric and Non-Parametric: Fisher, Chi-Square, Friedman Two-Way ANOVA, Sign Test, McNemar Test, Cochran's Q Test
- Regression: Simple and Multiple
- Modeling: Multiple comparison
- Statistical Software: MedCalc, SPSS, R

Workshop Fee and Other Charges may Apply. Attendees with repeated topics will be exempted from the fee.

Workshop Venue: JUIT, Jyoti Vihar, Faridkot District, Punjab

Workshop on Statistical and Biomedical Data

Lab work using SPSS, SAS, and R



Department of Mathematics & Department of Biotechnology and Bioinformatics
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
Waknaghat, Solan

www.juit.ac.in/stbms_2018 **stbms2018@gmail.com**

About the Workshop: Biostatistics has become a defined branch of science that uses an intricate combination of Statistics, Probability, Mathematics and Computation to model and solve real problems in biological and biomedical sciences. As a discipline designed to solve problems in biological and biomedical sciences, it has become an integral activity in turn forms part of the developing and expanding field of bioinformatics. Consequently, biostatistics has become an integral part of the research in the fields of epidemiology, economics, and mathematics in general. And it is applied to research questions in fields such as genetics, epidemiology, medicine, agriculture, environmental health and health services research, genomics, proteomics, and immunology. The use of biostatistics in epidemiology, medicine and public health has been both a beneficiary of this new methodology and a source of inspiration. It is essential that students have a strong background in mathematics and a sound understanding of statistics. The workshop will provide an insight into statistical and computational techniques and will provide new dimensions for their academic and research activities.



Speakers

Dr. Anwar Malik, PhD, Biostatistician

Dr. Surash Sharma, PhD, Microbiologist

Dr. N. S. Gupta, M. Sc, Biologist

Dr. Basant




Q. Application Procedures
Send your application for the given email in the provided application form. Last date of submission of application is **May 31, 2018**.

Q. Registration Fee
Registration fee includes all working lunches during the program and registration kit along with study material. **Workshop fee on attending basis. JUIT Exempts will be facilitated.**

Workshop Coordinators

Dr. Trishna Red Singh
Mobile: - 91 8091040695

Dr. Neel Kaithi
Mobile: - 91 8884272725

About JUIT

Founded over 28 years of excellence, JUIT is an international institute of higher education, offering a broad spectrum of academic programs to help students realize their dreams, creating a brighter and more vibrant future for the world. The university's strength lies in its vision and energy along with its resources and desire to achieve the highest level of academic excellence.

Participate	Individual Academic Fee (INR)	With accommodation (INR)	Jaypee University of Information Technology, Waknaghat, Solan
Students (MSc/BSc)	2000/- (2018)	2500/- (2018)	Ph: 0176 234 2341, 2342, 2343, 2344
Research Fellows	3000/-	3500/-	Ph: 0176 234 2341, 2342, 2343, 2344
Faculty	4000/-	4500/-	234252

Q. 31st May, 2018 (Registration Opens)

Q. 32nd May, 2018 (Registration Closes)





EMERGING TRENDS IN VLSI AND COMMUNICATION

(ETVC 2018)

REPORT

Department of Electronics and Communication Engineering organized a 10 days Faculty Development Program on “EMERGING TRENDS IN VLSI AND COMMUNICATION (ETVC 2018)”. The program was scheduled from June 09th -18th 2018 at Jaypee University of Information Technology, Wagnaghat, Solan, H.P with Dr. Meenakshi Sood and Dr. Shruti Jain as the Convener of the program.

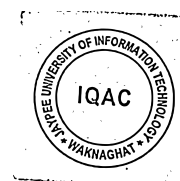
The program was inaugurated by Dr. Subhajit Roy Chaudhary, Prof., School of Computing and Electrical Engineering, IIT Mandi, Prof. Vinod Kumar, Vice Chancellor, JUIT and Prof. Samir Dev Gupta, HOD ECED.

More than 30 faculty members from various universities / institutes, 20 Research scholars have participated in this FDP.



Expert Lectures :

- a) **Dr. Shubhajit Roy Chowdhury IIT Mandi, India :** Dr. Shubhajit Roy Chowdhury did his M.Tech and PhD from the Jadavpur University. He was gold medalist in M.Tech as well as B.Tech program. His research interest includes VLSI Architectures, Biomedical Embedded Systems, Non invasive diagnostic systems etc. Prior to joining IIT Mandi, he was associated with IIIT Hyderabad, Indian Statistical Institute, Kolkata, and Jadavpur University. Elected as a member of Award Committee for Gandhian Young Technological Innovation (GYTI) Award by the Society for Research and Initiatives for Sustainable Technologies and Institutions (SRISTI) in the area of Health Care devices in the year 2018. His topic for the talk was “ VLSI : A tale of design or a tale of tools?”



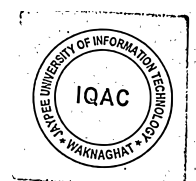


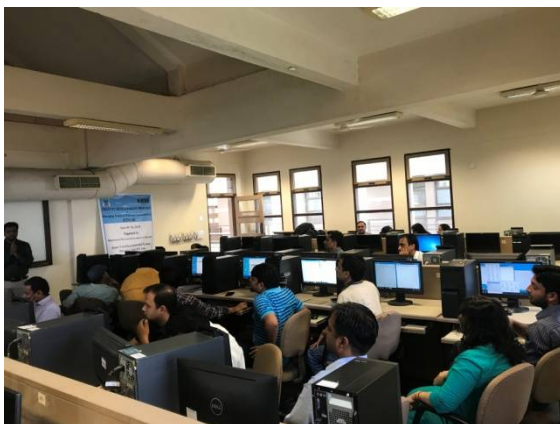
- b) Prof. Dinesh Kant RMIT, University, Melbourne, Australia :** Professor Dinesh Kumar received his Bachelor of Technology in Electrical Engineering from IIT, Madras (Chennai) and Doctor of Philosophy from IIT, Delhi. He is working as a Professor in Electrical and Computer Engineering, at RMIT University, Melbourne city Australia. Dinesh has received over \$4 million in research funds over the past 12 years in research funding.



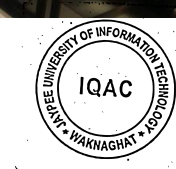
Hands on by various companies :

- a) Laboratory Virtual Instrument Engineering- Workbench (LabVIEW)** LABVIEW is a system-design platform and development environment for a visual programming language from National Instruments. The graphical language is named "G"; not to be confused with G-code. Originally released for the Apple Macintosh in 1986, LabVIEW is commonly used for data acquisition, instrument control, and industrial automation on a variety of operating systems(OSs), including Microsoft Windows, various versions of Unix, Linux, and macOS.





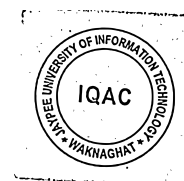
- b) **CoreEL Technologies** CoreEL is a leading systems design, FPGA Core and Design services company, located in Bangalore, India's Silicon Valley. We are a pioneer among the Indian companies that envisaged the concept of IP cores and made it a successful business proposition. CoreEL is associated with Xilinx as a distributor for over twenty years, from 1993 onwards and has the credit of popularizing Xilinx FPGA technology in India. Name CoreEL stands for Core Electronics and that is our strength. We are a Customer Application Specific Product & Solutions (CASPS) company offering innovative solutions, ranging across Intellectual Property (IP) cores, Design & Development, -System Design & Prototype Development, Next-Gen Digital products, integrated solutions, Low Volume Manufacturing, System Upgrades and Obsolescence management, EDA tools, COTS products, Semiconductor solutions and Technology Training.



- c) **AdvanceTech India Pvt Ltd** : AdvanceTech India Pvt Ltd, Zirakpur which deals in the field of Hardware Development, Embedded Products Development, Security & Surveillance and Engineers Training Programs. AdvanceTech India Pvt. Ltd. an Embedded Design House. AdvanceTech India Pvt. Ltd. offers various Technical Education solutions, Products & Development tools to Engineering colleges, Universities, research organizations. We also offer the business of providing Technical education solutions & development tools to the educational & industrial customers.



The FDP was concluded by Dr. Nishant Jain lecture on “Programming Paradigm on Optimization Tools” followed by valedictory on June 18, 2018.



7TH One Week Workshop on Tools and Techniques for Data Analysis in Management Research June 11 - 17, 2018

Department of Humanities and Social Sciences
Jaypee University of Information Technology
Waknaghat, Solan

About the Workshop: The Department of Humanities and Social Sciences is organizing a Workshop on “Tools and Techniques for Data Analysis in Management Research”. The Workshop is designed for Practicing Managers, Faculty members and research scholars in the field of management/social sciences as well as to any other person who is interested in conducting research using Data Analysis for his/her area of specialization. The department has successfully organized six workshops so far and this is the seventh one in the series.

Objective: To equip the participants with the knowledge of different tools and techniques used in the data analysis in modern day management/social sciences research so that they can add value to their research and knowledge domain.

Topics:

- Basic understanding of data
- Sampling and Questionnaire designing
- Hypothesis testing
- ANOVA, ANCOVA, MANOVA, MANCOVA
- Parametric and Non-Parametric Tests
- Factor and Cluster Analysis
- Discriminant Analysis
- Multidimensional Scaling and Conjoint Analysis
- Structural Equation Modeling
- Regression Analysis (Linear)
- Bivariate and Multivariate Regression Analysis
- Assumptions of Regression Analysis
- Multicollinearity, Heteroscedasticity and Autocorrelation in Regression Analysis
- Model Specification and Diagnostic Testing
- Dummy Variable Regression Models
- Logit, Probit and Tobit Models

Pedagogy: Lectures along with hands-on Practical classes will be the mode of conducting the Workshop. The Workshop is designed to impart theoretical knowledge as well as hands-on training using appropriate software to perform the test. It is advised that the participants should bring his/her own laptop for getting maximum benefit of the programme.

Softwares to be Used: SPSS and GRETL

Programme Fee:

- Participants with accommodation Rs 7,000/- & and without accommodation Rs 6,000/-.

The programme fee includes breakfast, lunch and dinner for all resident participants and only lunch for non-resident participants. The programme fee also includes tea & snacks and Workshop kit for all the participants. The accommodation will be arranged in the hostels on twin-sharing basis. Limited Seats are available on FIRST-COME-FIRST-SERVE basis.

Patrons

: Prof. Vinod Kumar
Vice-Chancellor, JUIT

: Prof Samir Dev Gupta
Director and Academic Head, JUIT

Organizing Secretary & Resource Person : Dr. Amit Srivastava
Associate Professor

Coordinators & Resource Persons

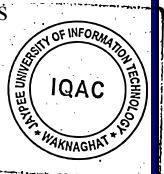
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Associate Professor
Department of Humanities and Social Sciences
Jaypee University of Information Technology
Waknaghat, Solan (HP) – 173234 (INDIA)
Ph: (O) – 01792-239228; Mob: 94181-09766
Email: amit.srivastava@juit.ac.in;
sriam_2000@yahoo.com



For further details please visit the following link:

http://www.juit.ac.in/hss_workshop/

Last Date: Monday, 28th May, 2018

Faculty Development Program

Department of Civil Engineering

14 – 19 January 2019

A six days Faculty development program on 'advances in civil engineering' was organized by the department of Civil Engineering along with CEC from 14-19th Jan, 2019. The Faculty development program (FDP) was conducted mainly for the advancement in civil engineering and to improve the performance of the civil engineering faculty members in various fields especially, in technical fields. It was conducted so that the faculty members can get more familiar and skilled in the latest technologies, helps them to find work balance by interacting with the industrial expert, and helps one to explore newer way of learning, and innovative methodology of teaching.

The program was chaired by Prof. Ashok K Gupta, HOD, CE, Dr. Rajiv Ganguli, Associate Professor as Convener and Aakash Gupta and Anirban Dhulia, Assistant Professors were coordinated the event.

The event was started with the felicitation of guest followed by few words of wisdom by Major General Rakesh Bassi, Registrar and Dean of Students. Prof. Ashok K. Gupta HOD, CE, also shared few lines highlighting the importance of conducting the program in the university. The program schedule comprised mainly of guest lecture from Prof. S.K. Singh on the topic 'Management of Coal Ash: Utilization and Disposal Effects' and various other important lectures by faculty members of department of civil engineering. On each day, the program started at 10 am in the morning till 5pm in the evening with lectures by different professors on different topics stressing on the advancement in the fields of civil engineering.

The program ended with the detailed lecture by Prof. A.K. Gupta on the topic the vision for civil engineering in 2025. Lastly the day ended with the awarding of the certificates to the participants.



One week Staff Training Program on “Introduction to Computer” using ICT content provided by Spoken Tutorial project from IIT Bombay.

Applications were invited for staff training in Introduction to Computers. Total of 35 applications were received and 18 are shortlisted based on their basic education and relevancy of the proposed course. Staff Training Program held from 11th Feb. 2019 to 15th Feb. 2019 with a daily class and hands-on session.

Dr. Rajinder Sandhu and Mr. Parteek from CSE/IT department coordinated the STP. Mr. Shiv Kumar Gupta (Sr. Lab Engg.), Mr. Rohit (Lab Engg.) and Mr. Ashok Kishtwal (Sr. Lab Engg.) act as training members for smooth conduct of STP.





RECENT TRENDS ON MACHINE LEARNING FOR SIGNAL PROCESSING (RTMLS)

REPORT

Department of Electronics and Communication Engineering organized a 1week Faculty Development Program on “**RECENT TRENDS ON MACHINE LEARNING FOR SIGNAL PROCESSING (RTMLS)**”. The program was scheduled from May 20 – 25, 2019 at Jaypee University of Information Technology, Wagnaghat, Solan, H.P. Dr. Neeru Sharma, Dr. Meenakshi Sood and Dr. Shruti Jain were the Conveners of the program.

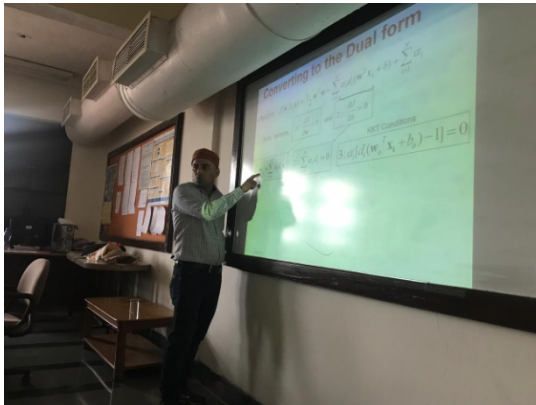
The program was inaugurated by Prof. Samir Dev Gupta, Prof. M. J. Nigam, HOD ECE Department and Dr. Mohd. Wajid, AMU, Aligarh.

More than 35 faculty members from various universities / institutes, 14 Research scholars have participated in this FDP.

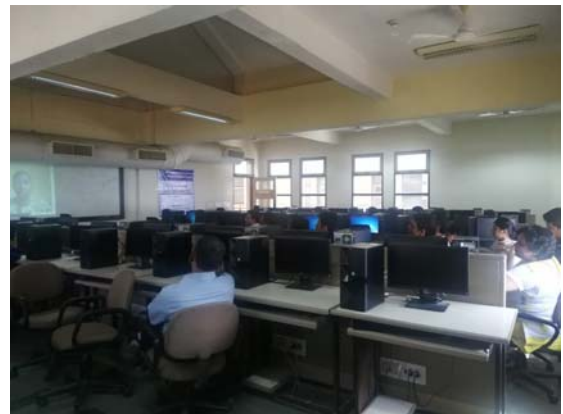


Expert Lectures :

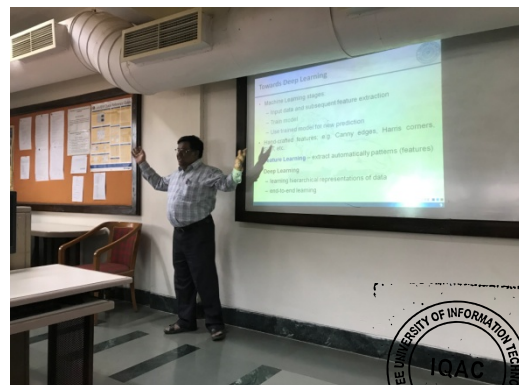
- a) **Dr. Mohd. Wajid**, Dept. of Electronics & Communication Engg Aligarh Muslim University: **SUPPORT VECTOR MACHINE and LATEX**



- b) **Dr. Ayodeji Salau**, Dept. of Electrical/Electronics and Computer Engineering, Afe Babalola University, Ado-Ekiti, Nigeria : **IMAGE FUSION AND ITS ROLE IN TECHNOLOGICAL DEVELOPMENT**

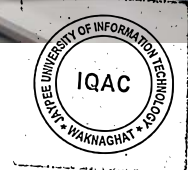
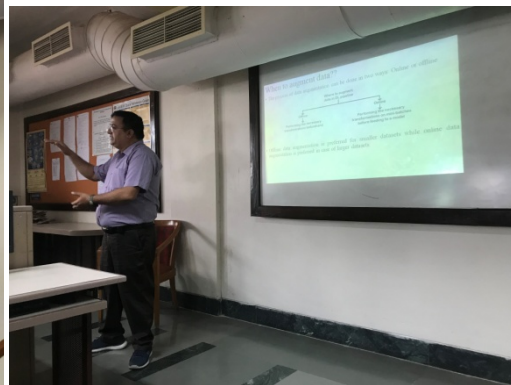


- c) **Prof. D. Ghosh** : Dept. of Electronics & Communication Engg, IIT Roorkee
DEEP LEARNING: EXPLORING THE POWER OF DEPTH FOR FEEDFORWARD NEURAL NETWORKS

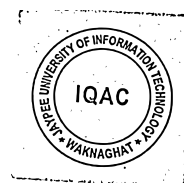




d) *Dr. Jitendra Virmani* , CSIR-CSIO, Chandigarh : **TRANSITION FROM MACHINE LEARNING TO DEEP LEARNING: A CHARACTERIZATION APPROACH**



Valedictory



National Workshop

BIOINFORMATICS AND BIOMEDICAL IMAGE ANALYSIS (NBBIA) – 2019

May 29 – 31, 2019

A national level workshop on Bioinformatics and Biomedical Image Analysis NBBIA-2019 was conducted under the aegis of Centre of Excellence in Healthcare Technologies and Informatics (CEHTI), JUIT. CEHTI was established by a decision from the Academic Council in its meeting held on 2nd Dec., 2017. This CoE is being developed to identify and use recent developments in the health care sectors along with its coordination with the rapidly developing informatics techniques. Dr. Tiratha Raj Singh is being designated as the coordinator of CEHTI. The Centre aims to carry out training activities that are concentrated in the field of

includes Shoolini and Nauni Universities, Solan, Central University Dharmashala, and IHBT Palampur along with some participants from Allahabad, Jalandhar, Dehradun, Delhi, Kolkata and Chennai. Workshop was focused on basic to advanced techniques in Bioinformatics, Biomedical Image and Signal Processing and their applications to gain insights towards their real life applications. First day was dedicated to bioinformatics and biological sequence analysis. Second day focused on structural bioinformatics. Last day was on biomedical image and signal processing. All three days participants enjoyed interactive lectures and



health information of national importance and strategic dimensions. NBBIA 2019 is the outcome of such activities of CEHTI.

In NBBIA 2019, participants were from all parts of India which includes Himachal region which




hands on sessions of the respective topics. Participants were very happy and gave very positive feedback for the workshop. This workshop was jointly coordinated by Dr. Nishant Jain and Dr. Tiratha Raj Singh.



8th One Week Workshop on
Tools and Techniques for Data Analysis in Management Research
June 10 - 16, 2019

Department of Humanities and Social Sciences
Jaypee University of Information Technology

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[Workshop@2015](#) ➤ [Workshop@2016](#) ➤ [Workshop@2017](#) ➤ [Workshop@2018](#)



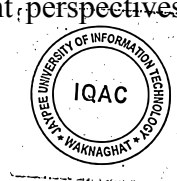
About the Workshop

The field of management/social sciences research is very dynamic and evolving at a rapid pace. One has to be updated with the latest tools and techniques of data analysis for the meaningful research in the area of management/social sciences. Generating data is not a big problem but interpreting the information hidden in the data is a challenging task and it will become simplified if one has the knowledge of using the right tools and techniques for analyzing the data. It will not only provide a better result but also contribute significantly to the knowledge base and hence be useful for researchers as well as to the society. The job is simplified with the help of softwares therefore it is imperative for a researcher to know which software will be suitable for his/her research and how it should be used.

After conducting the seven successful workshops and training more than 150 participants, the Department of Humanities and Social Sciences is organizing the eighth Workshop on the topic mentioned above. The Workshop is designed for Practicing Managers, Faculty members and research scholars in the field of management/social sciences as well as to any other person who is interested in conducting research using Data Analysis for his/her area of specialization.

Since the research is best learned by hands-on, therefore the Workshop emphasizes on a “DO-IT-YOURSELF” approach. In the Workshop, the participants have to participate actively to understand different tools and techniques used in modern day management/social sciences research. The Workshop will definitely enrich the participants and help them understand their research problems with different perspectives and from different dimensions.

www.juit.ac.in



Short Term Course
on
Recent Advances in
Signal & Image Processing

24th - 28th JUNE, 2019



Organized by

Department of Electronics & Communication Engineering

**JAYPEE UNIVERSITY OF INFORMATION
TECHNOLOGY, WAKNAGHAT,
SOLAN (H.P), PIN-173234
(Near to Shimla)**

PROGRAMME COMMITTEE

CHIEF PATRONS

- Shri Jaiprakash Gaur Ji, Founder Chairman, Jaypee Group
- Shri Manoj Gaur Ji, Executive Chairman Jaypee Group, and Pro-Chancellor, JUIT, Wagnaghat, H.P.

PATRONS

- Prof. Vinod Kumar, Vice Chancellor, JUIT, Wagnaghat, (H.P.)
- Prof. Samir Dev Gupta, Director and Academic Head, JUIT, Wagnaghat, (H.P.)

PROGRAMME CHAIR

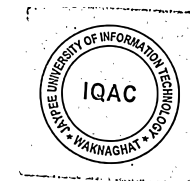
- Prof. M. J. Nigam,
Head of the Department, Electronics and Communication Engineering (ECE), JUIT, Wagnaghat, (H.P.)

COURSE CO-ORDINATORS

- Dr. Nafis Uddin Khan, Assistant Professor, ECE
- Dr. Sunil Datt Sharma, Assistant Professor, ECE

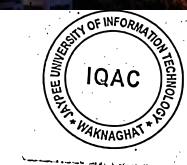
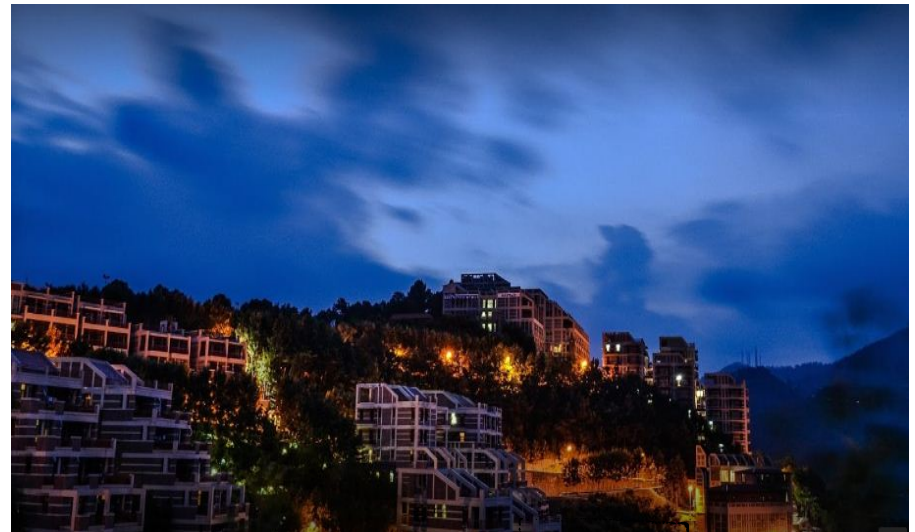
CONTACT INFORMATION

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- Dr. Sunil Datt Sharma, Mobile No. 9826868418
Email: sunildatt.sharma@juit.ac.in,
sdsharma.juet@rediffmail.com



ABOUT UNIVERSITY

Jaypee University of Information Technology (JUIT) was set up by Act No. 14 of 2002 vide Extraordinary Gazette notification of Government of Himachal Pradesh dated May 23, 2002 and it is approved by UGC under section 2(f). The University located in serene, calm and dense forestry surroundings of lower Himalayas near to Shimla and it is governed by non-profit charitable trust of **Jaypee Seva Sansthan**. The University is accredited by NAAC, NBA and its NIRF ranking is among top 100 engineering institutes including IITs, NITs and Central Universities.



ABOUT DEPARTMENT

Department of Electronics and Communication Engineering is providing high quality, self motivated, creative, ethical engineers and technologist contributing effectively to universal science and contemporary education. Department is accredited by NBA and most of the faculty members in the Department are Ph.D degree holders. ECE Department is well equipped with latest laboratories, name of few are Wireless Sensor Network & IOT, Digital Signal Processing, and Embedded Systems & Robotics. Also, it has the latest software of LABVIEW, MATLAB, and VIVADO. Presently, the Department is offering UG, PG, and Ph.D degree programs in Electronics and Communication Engineering with excellent placement records.

OBJECTIVE OF THE COURSE

The short term course has been intended to introduce recent advances in the area of Signal and Image Processing Techniques with their Real Time Applications. The goal of the course is to provide a forum to exchange latest research ideas, and innovations in the field of Signal and Image Processing. This course would surely help and offer opportunities to the new researchers, academicians, and industry professionals to enhance the knowledge and pursue research in this area.

TOPICS COVERED

The following topics would be covered with lab sessions but not limited to

- Statistical Signal Processing

- Image and Video Processing
- Genomics Signal Processing
- Biomedical Signal Processing
- Signal Processing for Machine Learning

RESOURCE PERSONS

Prof. Vinod Kumar (Vice-Chancellor, JUIT, Wajnaghat)

Prof. Rajiv Saxena (Vice-Chancellor, JU, Anoop Shahr)

Prof. Sumantra Dutta Roy (IIT, Delhi)

Prof. Sanjeev Narayan Sharma (SATI, Vidisha)

Dr. Pyari Mohan Pardhan (IIT, Roorkee)

Dr. Meenakshi Rawat (IIT Roorkee)

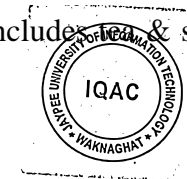
Dr. Dileep A. D. (IIT Mandi)

WHO CAN ATTEND

Faculty/Research Scholars/Industry Professionals from the field of Electronics & Communication Engineering, Electronics & Instrumentation Engineering, Computer Science Engineering & IT, Electrical Engineering, Biomedical Engineering and Bio-Informatics can attend this course.

REGISTRATION FEE

- Registration fee for the course is INR 3000/- per participant with residential accommodation and INR 2000/- per participant without residential accommodation.
- The registration fee includes breakfast, lunch and dinner for all residential participants and only lunch for non-residential participants. The registration fee also includes ^{lunch} & snacks and programme kit for all the participants.



REGISTRATION

- The participants may register through following google link.
<https://forms.gle/tm6EjKW73hQfTibG7>
- The participants may also register by sending the duly filled registration form through E-mail.
- The registration fee can be remitted through online transfer as per details given below:
Bank Name: Punjab National Bank
Branch Address: Wagnaghat Branch, Jaypee University of Information Technology, Wagnaghat
Account No.: 0427032100000010
IFSC Code: PUNB0637100
MICR Code: 171024077
- The maximum intake for this course is 30 and registration will be confirmed on FIRST-COME-FIRST-SERVE basis.
- If the registration is not confirmed by programme committee, then the registration fee will be refunded.
- There is no refund in case of the cancellation of confirmed registration.
- **The last date for the registration is May 31, 2019.**

HOW TO REACH

The JUIT Wagnaghat is located 3 kms from National Highway NH-22 (Chandigarh - Kalka - Shimla). The nearest railway stations are Chandigarh and Kalka. The distance from Chandigarh and Kalka is about 90 kms and 75 kms respectively from JUIT. The frequent bus and taxi services are available from Chandigarh and Kalka railway stations to reach JUIT.

REGISTRATION FORM

Short Term Course on Recent Advances in Signal & Image Processing

24th - 28th JUNE, 2019

Name: Mr./Ms./Dr.....

Designation:.....

Organization:.....

Address for Communication:

.....

.....

.....:.....Mob.No.....

E-mail:.....

Mode of Payment (NEFT/RTGS):.....

Payment Details:

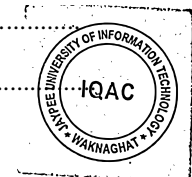
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Date:.....

Amount:.....

Accommodation required (Yes/No):.....

Signature:.....



Short Term Course on Recent Advances in Signal and Image Processing

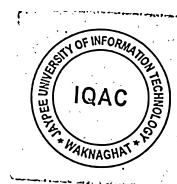
June 24 – 28, 2019

Department of Electronics and Communication Engineering
Jaypee University of Information Technology, Wanknaghat, India

Venue- CR-7, (First Floor, Academic Block)

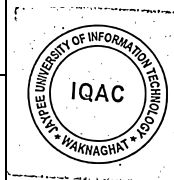
Time	9:30 am -10:15 am	10:15 am-10:45am	11:00am-1:00pm	1:00pm-2:00pm	2:00pm-4:00pm
Day 1 (24/06/2019)	Inauguration	High Tea	"FrFT: Fragrant & Fantastic Tool" (Prof. Rajiv Saxena)	Lunch	Anisotropic Diffusion in Image Processing (Dr. Nafis U. Khan)

Time	10:00 am -11:15 am	11:15am-11:30 am	11:30 am-12:45 pm	12:45 pm-2:00 pm	2:00 pm-4:00 pm
Day 2 (25/06/2019)	Science of Heart Rate Variability (HRV) (Prof Vinod Kumar)	Tea Break	Science of Heart Rate Variability (HRV) (Prof Vinod Kumar)	Lunch	Extraction of Features for Classification of Abnormalities in Bio-medical Images (Dr. Nishant Jain)
Day 3 (26/06/2019)	Basic Image Data Analysis using Python Programming (Dr.Yugal Kumar)	Tea Break	Machine Learning Technique for Human Health Care System (Dr. Pardeep Kumar)	Lunch	Predictive Computing Techniques and Applications (Dr. Pradeep Kumar Gupta)
Day 4 (27/06/2019)	Motion Segmentation and Tracking (Prof. Sumantra Dutta Roy)	Tea Break	Motion Segmentation and Tracking (Prof. Sumantra Dutta Roy)	Lunch	Applied Research in Biomedical Image and Signal Processing (Dr. Shruti Jain)
Day 5 (28/06/2019)	Genomics Signal Processing (Dr. Sunil Datt Sharma)		Valedictory Function	Lunch	



List of key-note Speakers / Resource Persons:

S. No.	Name & Designation	Research / Expertise Area	Affiliated Department and Institute (with full address)	Topic of the Lecture
1.	Prof. Vinod Kumar	Signal and Image Processing	Vice Chancellor, Jaypee University of Information Technology, Solan (H.P.)	Science of Heart Rate Variability (HRV)
2.	Prof. Rajiv Saxena	Signal and Image Processing	Vice Chancellor, Jaypee University, Anoopshahr (U.P.)	FrFT: Fragrant & Fantastic Tool
3.	Prof. Sumantra Dutta Roy	Signal and Image Processing	Department of EE, Indian Institute of Technology, Delhi	Motion Segmentation and Tracking
4	Dr. Pradeep Kumar Gupta	Software Engineering and Information system	Department of CSE, Jaypee University of Information Technology, Solan (H.P.)	Predictive Computing Techniques and Applications
5.	Dr. Pardeep Kumar	Computational and Machine Intelligence	Department of CSE, Jaypee University of Information Technology, Solan (H.P.)	Machine Learning Technique for Human Health Care System
6.	Dr. Shruti Jain	VLSI Signal Processing	Department of ECE, Jaypee University of Information Technology, Solan (H.P.)	Applied Research in Biomedical Image and Signal Processing
7.	Dr. Nafis U. Khan	Signal and Image Processing	Department of ECE, Jaypee University of Information Technology, Solan (H.P.)	Anisotropic Diffusion in Image Processing
8.	Dr. Sunil Datt sharma	Signal and Image Processing	Department of ECE, Jaypee University of Information Technology, Solan (H.P.)	Genomics Signal Processing
9.	Dr. Yugal Kumar	Theory of Computation and Data Mining	Department of CSE, Jaypee University of Information Technology, Solan (H.P.)	Basic Image Data Analysis using Python Programming
10.	Dr. Nishant Jain	Signal and Image Processing	Department of ECE, Jaypee University of Information Technology, Solan (H.P.)	Extraction of Features for Classification of Abnormalities in Bio-medical Images



Five Days Short Term Course on RECENT ADVANCES IN SIGNAL AND IMAGE PROCESSING (RASIP)

June 24 – 28, 2019

REPORT

Department of Electronics and Communication Engineering organized a five days Short Term Course on “RECENT ADVANCES IN SIGNAL AND IMAGE PROCESSING (RASIP)”. The program was scheduled from June 24 – 28, 2019 at Jaypee University of Information Technology, Wagnaghat, Solan, H.P.

Dr. Nafis Uddin Khan and Dr. Sunil Datt Sharma were the Coordinators of the course. The program was inaugurated by Honorable Vice Chancellor Prof. Vinod Kumar and Director Prof. Samir Dev Gupta under the chief guest Prof. Rajiv Saxena, Vice Chancellor, Jaypee University, Anoopshahar. More than 30 participants from Jaypee University of Information Technology, Wagnaghat and outside Jaypee University of Information Technology, Wagnaghat have participated in this course. The participants include faculty members, research scholars and PG students from various universities / institutes.



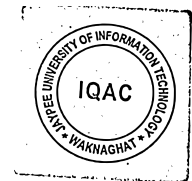
Expert lectures presented by Prof. Vinod Kumar, Prof. Rajiv Saxena, Prof. Sumantra Dutta Roy (IIT Delhi), Dr. Shruti Jain, Dr. Pardeep Kumar, Dr. Pardeep Kumar Gupta, Dr. Nafis U. Khan, Dr. Sunil Datt Sharma, Dr. Yugal Kumar and Dr. Nishant Jain.



Valedictory Function



Group Photo and Tea Party



REGISTRATION FORM

Emerging areas of Research in Image
Processing (ERIP)-2020

Name:.....

Designation:

Qualification:

Department:

Organization:

Mobile:

Email:

Amount:

DD/UTR No.:Date.....

Bank drawn:

Signature of the candidate

Registration Fees

Registration (without accommodation & food): ₹ 1000

Registration with accommodation & food: ₹ 2500

Payment can be done through DD/NEFT

Participants can register by sending the duly filled registration form along with registration fee payment details at: nishantjain86@gmail.com.

Details for payment of Registration fees are:

Account No. : 0427002100682105

Beneficiary: Jaypee University of Information Technology,
Waknaghat

IFS Code: PUNB0042700

Punjab National Bank, THE MALL, SHIMLA (H.P)

Patrons

Prof. (Dr.) Vinod Kumar

Vice-Chancellor

Prof. (Dr.) Samir Dev Gupta

Dean Academic & Research

Program Chair

Prof. (Dr.) M. J. Nigam

HoD, ECE Department

Dr. Shruti Jain

Assoc. Prof., ECE Department

Finance Chair

Maj. Gen Rakesh Bassi (Retd.)

Registrar and Dean of Students

Conveners

Dr. Nishant Jain

Dr. Emjee Puthooran

Coordinators

Dr. Harsh Sohal

Ms. Pragya Gupta

Contact:

01792-239205, 7895451577

nishantjain86@gmail.com,

nishant.jain@juit.ac.in



JAYPEE UNIVERSITY OF
INFORMATION TECHNOLOGY

WORKSHOP

on

EMERGING AREAS OF RESEARCH IN
IMAGE PROCESSING-2020
(ERIP-2020)

Jan 06 – 12, 2020



Organized by:

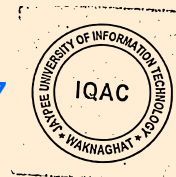
Signal and Image Processing Group

Deptt. of Electronics & Communication Engineering

Jaypee University of Information Technology

Waknaghat, Solan, HP 173234

www.juit.ac.in



About JUIT

JUIT is spread over 25 acres of lush green picturesque slopes of Wagnaghat, in district Solan of Himachal Pradesh, creating a tranquil environment that can heighten the spirit and energy level of all learners and inspire them to optimize their learning efforts.

JUIT Wagnaghat is midway between Shimla & Solan. Shimla is 24 Kms from the campus. Kalka is the nearest broadgauge railway station. Wagnaghat is very well connected with buses from Delhi, UP, Haryana, Punjab, Rajasthan and Chandigarh/Kalka.

About the Department

The Department of Electronics and Communication Engineering was established in the year 2002 with undergraduate program. Subsequently, M.Tech and Ph.D programs were started by the department. The department is playing a vital role in producing competent engineers of highest caliber with emphasis on technical skills, critical thinking and problem-solving. The department has highly motivated and learned faculty who are research oriented and working on cutting edge technologies. The faculty of the department is actively involved in research areas namely Signal & Image Processing, Embedded System and VLSI, RF and Microwave Antenna, Communication and Networking, and Automation and Control to focus on research in advanced trends and applications in these fields. The department has produced 23 doctorates and currently 18 research scholars are working in different research areas.

Objective of the Workshop

Image Processing finds its application in the areas such as biomedical engineering, forensic science, remote sensing, agriculture, and many more. Due to very wide area of applications, it

attracts students, researchers, educators and industrialist from different background like Electronics and Communication Engineering, Computer Science Engineering, Biotechnology and Bioinformatics Engineering and others. This workshop will help the participants working or intend to work in the area of biomedical engineering, forensic analysis, remote sensing, telemedicine, etc. It will help the participants to explore new dimensions for their academic and research activities.

The objectives of the workshop are:

- To provide knowledge on the recent developments in the areas of biomedical engineering, forensic analysis, remote sensing images and telemedicine
- To provide hands-on practice on image processing and analysis of biomedical images using MATLAB
- To make aware participants about the requirements of industries on Image Processing
- To make aware participants about the requirement of software tools for analysing medical images

Eminent Speakers

Experts from Industries/Academia

- **Dr. Vinod Kumar**
Vice-Chancellor, JUIT
(former Deputy Director, IIT Roorkee)
- **Dr. Zahir Ahmed Ansari**
Scientist, IRDE (DRDO)
- **Mr. Ankur Jain**
Founder & CEO at UdyogYantra Technologies
- **Dr. Narendra Digambar Londhe**
Head, Electrical Engineering Deptt., NIT Raipur
- **Dr. Arvind Kumar**
Professor, PIET, Gujarat
- **Dr. Meenakshi Sood**
Associate Professor, NITTTR, Chandigarh
- **Dr. Jitendra Virmani**
CSIR-CSIO Chandigarh
- **Dr. Dinesh Kumar**
Asst. Professor, ECE Deptt., Thapar University



Three days workshop on

Perception towards IPR

February 10 -12, 2020

IPR Cell JUIT organized a three day workshop on “Perception towards IPR” in collaboration with Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE) from February 10-12 2020.

Details of the events of workshop are:

- 10 Feb 2020 - Survey and Data Analysis of IPR from the faculty/staff members and students
- 11 Feb 2020 - Survey on GI'S , copyright in & around JUIT and Himachal Pradesh
- 12 Feb 2020 - Guest Lecture by Dr. Sunderesha S and Dr. Rajender Singh from CPRI Shimla



On the first day; IPR Survey was done with in JUIT faculty and staff members. A survey form was designed by Mr. Shailu Srivastava (Student Coordinator IPR team) seeking information related to IPR and patents.

On the second day (February 11, 2020) survey continued. Proposed GIs entries were also



submitted by the students of B.Tech and M.Sc. their potential was judged by a team composing Mr. Shashi Dhar (HIMCOSTE), Prof. Sudhir Kumar (Coordinator IPR), Dr. Shruti Jain (Co-Coordinator IPR), and Mr. Shailu Srivastava (Student Coordinator IPR).

On third day Resource persons from CPRI Shimla; Dr. Sunderesha S and Dr. Rajender Singh, Scientist Division of Plant Protection had given lectures related to IPR and patents. They highlighted the

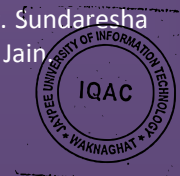


process of IPR followed in CPRI and about their patents and their commercialization. Prof. Vinod Kumar (Hon'ble Vice Chancellor JUIT) facilitated the resources persons and addressed the gathering.

For the GI competition, 18 entries were received and from these top three GIs chosen on the basis on tradability and novelty. The details of the winners are:

Prize	Roll No.	Name	Proposed GI
1 st	171350	Aditya S Gangwar	Angoori
2 nd	171008	Sanket Saxena	Kotgarh Apple
3 rd	171359	Kirti Varma	Charmaa (Berry)

Winner received certificate and a cash prize of Rs.3000, Rs.2000 and Rs.1000 as 1st, 2nd, and 3rd, respectively from resource person Dr. Sunderesha and IPR cell Co-coordinator Dr. Shruti Jain



Workshop on “Perception towards IPR”

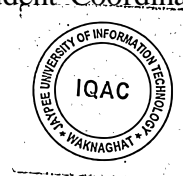
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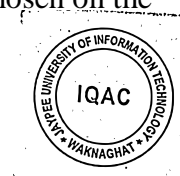


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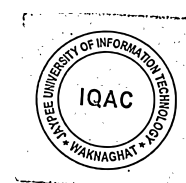


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3rd	171359	Kirti Varma	Charmaa (Berry)



Winner received certificate and a cash prize of Rs.3000, Rs.2000 and Rs.1000 as first, second and third, respectively from resource person Dr. Sundaresha and IPR cell Co-coordinator Dr. Shruti Jain.

During the Guest Lecture IPR cell coordinator Dr. Sudhir Kumar explained about the IPR cell of JUIT and briefed about the happenings of the past two days workshop. He thankfully acknowledged the financial and intellectual support provided by HIMCOSTE. He highlighted that 09 patents were granted to JUIT in past. One patent was filed through HIMCOSTE in 2019.



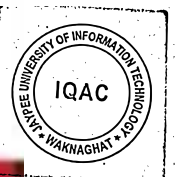


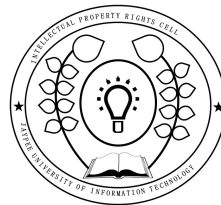
The workshop was ended with the vote of thanks by IPR cell co-coordinator Dr. Shruti Jain.

जेपी यूनिवर्सिटी में वर्कशॉप का आयोजन



सोलन। जेपी यूनिवर्सिटी ऑफ इन्फार्मेशन एंड टेक्नोलॉजी वाकनाघाट में परसेप्शन टुवर्ड्स आईपीआर विषय पर आयोजित तीन दिवसीय वर्कशॉप का समापन बुधवार को हुआ। जेयूआईटी के आईपीआर सैल द्वारा आयोजित इस वर्कशॉप में सभी शिक्षक और विद्यार्थियों ने भाग लिया। वर्कशॉप के दौरान फाइंडिंग न्यू जीोग्राफिकल इंडिकेशंस ऑफ हिमाचल प्रदेश की प्रतियोगिता करवाई गई, जिसमें आदित्य सिंह गंगवार ने पहला स्थान प्राप्त किया। वर्कशॉप का समापन गेस्ट लेक्चर से हुआ, जिसमें सीपीआरआई शिमला से डा. सुंदरेशा सिद्धा ने सभी शिक्षक और छात्रों को आईपीआर के बारे में जागरूक किया। आईपीआर के को-आर्डिनेटर डा. सुधीर कुमार ने बताया कि जेयूआईटी को नौ पेटेंट्स ग्रांट हो चुके हैं जिसमें से चार पेटेंट्स 2019 में ग्रांट हुए हैं और 12 अभी प्रक्रिया में हैं। वर्कशॉप का समापन आईपीआर सैल की को-आर्डिनेटर डा. श्रुति जैन ने धन्यवाद प्रस्ताव से साथ किया।





Name :

Department :

Employee Code:

Designation :

Mobile No. :

Email:

1. Ever heard of patents: Y ☐ N ☐

2. Do you know the difference between trademarks, patents and copyrights?

3. Any patent you have filed: Y ☐ N ☐

If (yes) give details

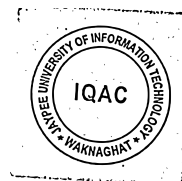
4. Are you thinking of filing your first patent? Y ☐ N ☐

5. Does this promote your economic growth? Y ☐ N ☐

6. Why do you/someone hesitate to file any patent :

7. Do you know about design registration and copyright?

8. Do you prefer publication or patent?



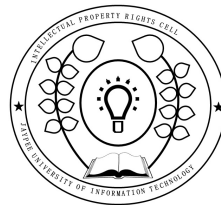


JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

WORKSHOP ON “PERCEPTION TOWARDS IPR”

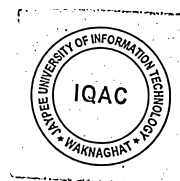
SURVEY FORM

FEB 10-12, 2020



Please give a rating (4- Excellent; 3- Very Good, 2- Good, 1- Fair)

S.No.	Particulars	Rating
1	Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives) in workshops and guest lecture related to IPR and patents	
2	How much do you think this will meet your/students academic requirement	
3	How much you satisfy by the procedure of patent filing in India.	
4	How much Geographical Indications adds value to the particular geography.	



Three days training programme on

Training for Masons on Hazard Resistant Construction

February 25 – 27, 2020

The Disaster management and research cell (DMRC), Civil Engineering department of Jaypee University in collaboration with Himachal Pradesh District Disaster Management Authority (HPDDMA), Solan conducted a three days training program for 28 masons (from Kandaghat block), 3 Junior engineers, 2 educators from ITI solan and officials from DC office solan. Jaypee university has been chosen as a nodal center for various trainings and awareness programs conducted by HPDDMA Solan. As a first step in this collaboration on



25th February 2020, three days training program for hazard resistant construction was inaugurated by Honorable Vice chancellor Prof. Vinod Kumar, which was attended by distinguished guests from DC office solan, Kandaghat SDO office, participants from various panchayats of Kandaghat, staff and students from Civil engineering department.



During the first day of training programme participants were briefed upon how and why earthquake occurs and the need of earthquake resistant design of structures by the Chairperson DMRC Dr. Tanmay Gupta. The session also imparted knowledge upon various materials and tools used during the modern hazard resistant construction and important safety/maintenance tips. In the latter half of the day participants were given exposure to lab and site procedures for quality control of the materials. Strength testing of bricks, concrete



specimen, check for quality of cement, fine aggregate and coarse aggregates were the main highlights of the session.

Second day the focus was upon hands on training for the participants for earthquake resistant masonry structures and reinforced concrete framed structure. Participants came to



know regarding various masonry building schemes such as English bond, Flemish bond, Rat-trap bond via practical demonstration and themselves building these schemes. Furthermore, based on latest Indian codal provisions, the importance of earthquake resistant band and their proper ductile detailing of reinforcement were discussed, demonstrated and practiced.

Dr Saurav, Chairperson DMRC addressed the participants on the final day briefing them upon ductile detaining of beams, columns and foundations in a reinforced concrete framed structure. He also imparted knowledge upon unconfined and confined masonry structures.



Classroom sessions were followed by demonstration and hands-on practice upon reinforcement detailing. As most-commonly faced problem during earthquake or any hazard is due to lack of confinement of reinforcement, safe and economical construction practices for low cost housing and even for multi-story buildings, emphasizing on proper confinement were discussed, demonstrated and practiced. Three days training came to end on 27th February 2020, via certificate distribution. Chief guest for the closing ceremony SDM Kandaghat interacted with the participants and thanked DMRC, Jaypee university to organize and sponsor the programme.





JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
WAKNAGHAT, SOLAN, HP

Department of Computer Science and Engineering
& Information Technology

is organizing

FACULTY DEVELOPMENT PROGRAMME

from

June 15th - 20th, 2020

on

“TRANSFORMING EDUCATION WITH INDUSTRY 4.0”



Mechanization
steam and
water power



Mass Production
and
Electricity



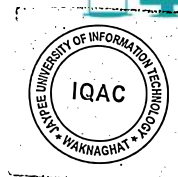
Electronics
and
IT Systems



Cyber
Systems



Sponsored By



"TRANSFORMING EDUCATION WITH INDUSTRY 4.0"

New age of Industry 4.0 will bring in a considerable change in physical world. The way Industrial Revolution 4.0 is transforming the world, technologies like the Internet of Things (IoT), Big Data, and Artificial Intelligence (AI) are impacting major industries, and in turn, jobs. With the arrival of Industrial Revolution 4.0, it is possible that the technologies powered by AI will supersede everything. Further, it will also require the current workforce to upgrade their skills and knowledge. For this, a revolution in education is essential to enable people worldwide to harness the opportunities created by the advent of these technologies.

Who can attend:

- Industry Professionals
- Faculty Members
- Research Scholars

Mode of Delivery of Address:

Online Platform for FDP :
WebEx/ZOOM

No Registration Fee will be charged

Registration link : <https://forms.gle/Y6UlniaRjp6vCASy8>

Certificates will be awarded to all participants who secure more than 70% in the online test that will be conducted at the end of FDP.

Chief Patron

Prof. Dr. Vinod Kumar,
Vice Chancellor,
Jaypee University of Information Technology ,
Waknaghat, Solan HP, India.

Patrons

Prof. Dr. Samir Dev Gupta,
Director and Head CSE & IT,
Jaypee University of
Information Technology,
Waknaghat, Solan HP, India.

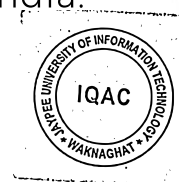
Retd. Maj. Gen. Rakesh Bassi,
Registrar and Dean of students
Jaypee University of,
Information Technology
Waknaghat, Solan HP, India.

Convenor

Dr. Ruchi Verma,
Assistant Professor (Sr. Grade)
Department of CSE & IT
Jaypee University
Waknaghat, Solan HP, India.

Contact Details:

Dr. Ruchi Verma
ruchi.verma@juit.ac.in
Mobile number: 9736005055



GALAXY OF SPEAKERS



Prof.(Dr.)Lalit Awasthi
Director
NIT Jalandhar



Dr.(Mrs.) Purnima Chauhan
IAS(retd.) Secretary
Government of HP



Prof.(Dr.)Raj Bhatnagar
Professor
Dept. of Electrical Engineering
and Computer Science,
University of Cincinnati



Prof.(Dr.) Aparajita Ojha
Professor
Computer Science Dept.
IIITDM, Jabalpur



Prof.(Dr.)Manu Sood
Professor
Dept. of Computer Science
H.P. University, Shimla



Prof.(Dr.) R.K Sharma
Professor
Dept. of Computer Science
Thapar Institute of Engineering
and Technology, Patiala



Prof. (Dr.) Vivek Kumar Singh
Professor
Dept. of Computer Science
BHU, Varanasi



Dr. Varun Dutt,
Associate Professor
School of Computing and
Electrical Engineering,
IIT Mandi



Dr. Hitesh Shrimali
Associate Professor
School of Computing and
Electrical Engineering,
IIT Mandi



Dr.Narottam Chand Kaushal,
Associate Professor
Dept. of Computer Science
& Engineering, NIT, Hamirpur



Dr. T.P Sharma
Associate Professor
Dept. of Computer Science
& Engineering, NIT, Hamirpur



Dr. Ashok Kumar
Associate Professor
Dept. of Computer Science
& Engineering, NIT, Hamirpur



Dr. Divakar Yadav,
Associate Professor
Dept. of Computer Science
& Engineering,
NIT, Hamirpur



Dr Badri Narayan Siubudhi
Assistant Professor
IIT, Jammu



Continuous Education Program 2020

An online five day Continuous Education Program on '***Current Aspects and Research Opportunities in Civil Engineering***' was organized by the department of Civil Engineering Jaypee University of Information Technology (JUIT), Waknaghat from 20th to 24th July 2020.

The program was successfully completed under the auspices of

- Prof. Vinod Kumar – Vice Chancellor of JUIT Waknaghat and Patron of the organized CEP by Civil Engineering Department.
- Prof. SamirDev Gupta – Director and Dean of Academics of JUIT Waknaghat
- Major General Rakesh Bassi (Retd.) - Registrar and Dean of Students of JUIT Waknaghat
- Prof. Ashok Kumar Gupta – HOD of Civil Engineering Department of JUIT Waknaghat and Program Chair of the organized CEP by Civil Engineering Department.
- Dr. Rajiv Ganguly – Associate Professor of Civil Engineering Department of JUIT Waknaghat and Program Convener of organized CEP by Civil Engineering Department.
- Dr. Aakash Gupta – Assistant Professor of Civil Engineering Department of JUIT Waknaghat and Program Convener of organized CEP by Civil Engineering Department
- Mr. Anirban Dhulia - Assistant Professor of Civil Engineering Department of JUIT Waknaghat and Program Convener of organized CEP by Civil Engineering Department

The Continuous Education Program on '***Current Aspects and Research Opportunities in Civil Engineering***' comprised mainly of invited and guest lecturers from eminent speakers of renowned institutes covering multifaceted aspects on progress, developments and forthcoming research opportunities in Civil Engineering. Table 1 highlights the program schedule of the conducted CEP program including the names and organizations of the speakers along with the title of lectures (talks) delivered by them.

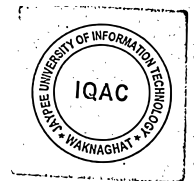
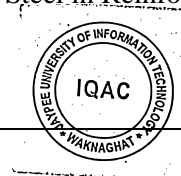


Table 1: Schedule and Details of Lecture presented by different speakers in the CEP program 2020

Date	Time	Name of Resource Person	Title of Presentation
20/07/2020	10.00 -11.30 AM	Prof. Praveen Agarwal (NIT Kurukshetra)	Updated Flexible Pavement Design as per IRC.
	11.30 AM – 01:00 PM	Dr. Surender Singh (IIT Madras)	Assessment of the Recycled Aggregates for Concrete Pavements.
21/07/2020	10.00 -11.30 AM	Dr. K. Sitaramanjaneyulu (CSIR-CRRI)	Construction and Quality Control of Flexible Pavements.
	11.30 AM – 01:00 PM	Dr. Pradeep Kumar (CSIR-CRRI)	Modern Pavement Evaluation Techniques.
	01.00 PM - 02.00 PM	Dr. Pankaj Munjal (National University of Singapore)	Engineered Cementitious Composites (ECC) and its applications for strengthening of Masonry Structures.
22/07/2020	10.00 AM- 11.30 AM	Prof. M. Chandrasekhar (NIT Warangal)	Research in Environmental Engineering and Recent Trends.
	11.30 AM - 01.00 PM	Mr. Krishanu Saha (Boston Consulting Group, USA)	Application of Data Analytics in Civil Engineering.
23/07/2020	10.00 AM- 11.30 AM	Mr. Anil Kumar (CCET, Chandigarh)	Blast Loading on Structures: Fragility Analysis and their Mitigation.
	11.30 AM - 01.00 PM	Dr. Rajesh Kumar (CCET, Chandigarh)	Self Compacting Concrete and Factors Affecting its Behaviour.
24/07/2020	10.00 AM- 11.30 AM	Dr. Indrajit Ghosh (IIT Roorkee)	Surrogate safety measures for traffic safety assessment under heterogeneous traffic conditions
	11.30 AM - 01.00 PM	Dr. Arpit Goyal (Coventry University, UK)	Corrosion of Steel in Reinforced Concrete Structures



The CEP was conducted mainly to gain knowledge on the current opportunities in civil engineering and to know about the developing research areas so as to improve the performance of the Civil Engineering faculty members and the participants in different specializations. It was conducted so that the faculty members and the different participants could get more acquainted with recent developments and prevailing opportunities for research in Civil Engineering which if required could be incorporated in up gradation of existing courses or development of new courses to make the students more aware. The program started at 10 AM in the morning and continued till 2.00 PM in the afternoon with minimum of two lectures per day followed by question-answer sessions presented by different eminent speakers of reputed institutes covering a variety of subjects. A detail summary of the topic discussed during the entire CEP program is summarized in Table 1.

The participation in the CEP was overwhelming with a large number of participants from outstation locations with some participants joining from Karnataka, Gujarat, Chhattisgarh and other such states. The overall summary of the participants present in the CEP program is summarized in Table 2.

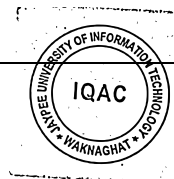
Table 2: Summary of participation Details in the CEP program 2020

Total Number of Registered participants	108
Total Number of external participants	65

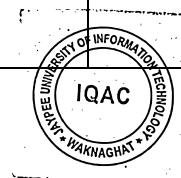
Session wise summary of participants is presented in Table 3 below

Table 3: Session wise summary of participation Details in the CEP program 2020

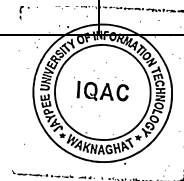
Date	Time	Name of Resource Person	Title of Presentation	Maximum number of participants	Minimum number of participants	Percentage of external participants	Percentage of internal participants
20/07/2020	10.00 - 11.30 AM	Prof. Praveen Agarwal (NIT Kurukshetra)	Updated Flexible Pavement Design as per IRC.	80+	50+	50%	50%



	11.30 AM – 01:00 PM	Dr. Surender Singh (IIT Madras)	Assessment of the Recycled Aggregates for Concrete Pavements.	80+	50+	50%	50%
21/07/2020	10.00 - 11.30 AM	Dr. K. Sitaramanjan eyulu (CSIR-CRRI)	Construction and Quality Control of Flexible Pavements.	75+	50+	50%	50%
	11.30 AM – 01:00 PM	Dr. Pradeep Kumar (CSIR-CRRI)	Modern Pavement Evaluation Techniques.	75+	50+	50%	50%
	01.00 PM - 02.00 PM	Dr. Pankaj Munjal (National University of Singapore)	Engineered Cementitious Composites (ECC) and its applications for strengthening of Masonry Structures.	75+	50+	50%	50%
22/07/2020	10.00 AM- 11.30 AM	Prof. M. Chandrasekh ar (NIT Warangal)	Research in Environmental Engineering and Recent Trends.	75+	50+	50%	50%
	11.30 AM -01.00 PM	Mr. Krishanu Saha (Boston Consulting)	Application of Data Analytics in Civil Engineering.	75+	50+	50%	50%



		Group)					
23/07/2020	10.00 AM-11.30 AM	Mr. Anil Kumar (CCET, Chandigarh)	Blast Loading on Structures: Fragility Analysis and their Mitigation.	75+	50+	50%	50%
	11.30 AM -01.00 PM	Dr. Rajesh Kumar (CCET, Chandigarh)	Self Compacting Concrete and Factors Affecting its Behaviour.	75+	50+	50%	50%
24/07/2020	10.00 AM-11.30 AM	Dr. Indrajit Ghosh (IIT Roorkee)	Surrogate safety measures for traffic safety assessment under heterogeneous traffic conditions	70+	50+	50%	50%
	11.30 AM -01.00 PM	Dr. Arpit Goyal (Coventry University)	Corrosion of Steel in Reinforced Concrete Structures	70+	50+	50%	50%



Other Salient Features

- Video Recording of all lectures by the speakers for the CEP available with the organizing committee.
- Presentation slides of all lectures by the speakers for the CEP available with the organizing committee and has been distributed to participants
- Certificates of participation issued to all registered participants.
- Certificates of resource persons issued to all the listed speakers
- Feedback collected from participants for further improvement in conducting such future online CEP programs
- Feedback collected from speakers for their inputs in conducting such future online CEP programs

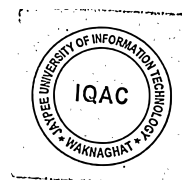
Summary Statistics of Feedback received from Participants and Speakers are summarized below in Tables 4 and 5 respectively.

Table 4: Participant feedback details of the CEP program 2020

Total number of participants feedback	86
Overall average feedback score	Excellent (70%); Very Good (27%); Good (3%) Based on a 5 point scale rating system (1- 5; [poor to excellent])

Table 5: Speaker feedback details of the CEP program 2020

Total number of Speaker feedback	9
Overall average feedback score	Excellent (67%); Very Good (33%); Based on a 5 point scale rating system (1- 5; [poor to excellent])



WHO CAN REGISTER?

- Faculty members from Universities and Engineering Colleges.
- Industry Professionals from IT Industries.
- Students with Engineering background, Researchers and Programmers.

REGISTRATION FEE

A nominal fee of Rs. 300/- should be paid towards registration fees by participants. One can register himself/herself through payment via Online Transfer/ Google Pay/ Paytm.

Beneficiary Name	Punjab National Bank
Branch Name	Shimla
Complete Address	THE MALL, SHIMLA, H.P., INDIA
Name of Beneficiary	Jaypee University of Information Technology, Wagnaghat
Account No.	0427002100682105
NEFT Code/ IFSC Code	PUNB0042700
MICR Code	171024002

IMPORTANT NOTES

Last Date for Registration: 26th July, 2020

Registration includes:

1. To attend Expert Lectures
2. To attend Hands-on
3. E-Certificate (After submitting the assignment and feedback)

RESOURCE PERSONS

Experts from reputed research & academic institutions, and Industries such as *NIT, TIET, Amity, CMREC, NVEST, ICAFI, IKGU* will deliver the sessions and hands-on. Two weeks sessions are planned for the systematic conduction of the programme to help participants in implementing best practices to meet the current industry demand in the field of Cloud Computing, Deep Learning, Network Security, Distributed Computing, etc.

CHIEF PATRONS

Prof. (Dr.) Vinod Kumar, Vice Chancellor, JUIT, Wagnaghat

Prof. (Dr.) Samir Dev Gupta, Dean of Academics & HoD, CSE&IT, JUIT, Wagnaghat

Maj. Gen Rakesh Bassi (Retd.), Registrar and Dean of Students, JUIT, Wagnaghat

ORGANIZING COMMITTEE

Dr. Hemraj Saini, JUIT, Wagnaghat
Dr. Himanshu Jindal, JUIT, Wagnaghat
Dr. Monika Bharti, JUIT, Wagnaghat
Dr. Aman Sharma, JUIT, Wagnaghat
Dr. Geetanjali, JUIT, Wagnaghat

ADDRESS FOR COMMUNICATION

Dr. Hemraj Saini
JUIT, Wagnaghat, Solan (H.P.)-173234
Mob: 8894969853

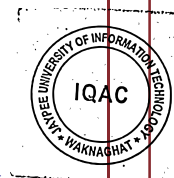
e-mail: hemraj1977@yahoo.co.in

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e-mail: himanshu.jindal@juit.ac.in



**JAYPEE UNIVERSITY OF
INFORMATION TECHNOLOGY**
Wagnaghat-173234



JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY Wagnaghat-173234

(Established under H.P. Legislative
Assembly Act No. 14 of 2002 and
Approved by UGC under section 2(f))

National Level Two Weeks Faculty Development Programme on

**“Ambient Technologies: State-of- Art,
Challenges, and Future Directions”**



27th July, 2020 – 8th August, 2020

Organized By

**Department of Computer Science &
Engineering and Information
Technology**

Eminent Expertise



Dr. Dinesh Kumar Saini

Sohar University, Oman

Topic: Security is Moving Target

Dr. Sushma Jain

Thapar Institute of Engg. & Technology, Patiala, India

Topic: Deep Architecture, Learning Algorithms & CNN

Dr. Nisha Chaurasiya

National Institute of Technology, Jalandhar, India

Topic: Cloud Computing and Virtualisation

Dr. Sandeep Kumar Panda

ICFAI University Hyderabad, India

Topic: Blockchain Technology and Applications using
Ethereum, Solidity

Dr. Prashant Kumar

National Institute of Technology, Jalandhar, India

Topic: Opportunistic Networking and Device to Device
Communication

Dr. Rakesh Goyal

IK Gujral Punjab Technical University, Kapurthala, India

Topic: Blended Learning with Open Broadcaster Software

Dr. Ashima Singh

Thapar Institute of Engineering & Technology, Patiala, India

Topic: Distributed Architecture, Cloud Computing Architectures,
Hadoop Architecture, and Map Reduce

Dr. Mohit Saini

National Institute of Technology, Jalandhar, India

Topic: Cloud Computing and its Applications

Mr. Tushar Sharma

NVEST Bangalore, India

Topic: Blockchain Technology and Applications using Ethereum,
Solidity

Dr. Amritpal Singh

National Institute of Technology, Jalandhar, India

Topic: Probabilistic Data Structures

Dr. Gautam Kumar

CMR Engineering College, Hyderabad, India

Topic: ECC and Non-Commutative Cryptography with Formal
Verifications

Dr. Vandana Bhatia.

Amity University, Noida, India

Topic: Big Data Analytics

Dr. Bharti Saneja

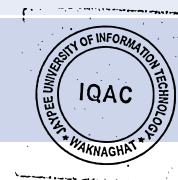
Department of Higher Education, Haryana, India

Topic: Sensor Data Analytics

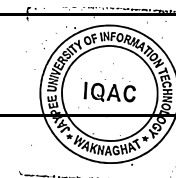


Inauguration Ceremony

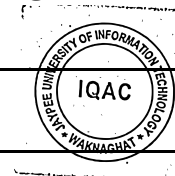
10:30 AM	Online Joining to FDP Link
11:00 AM	Speech by <i>Prof. (Dr.) Vinod Kumar Vice Chancellor</i> , Jaypee University of Information Technology, Waknaghat, India
11:30 AM	Speech by <i>Prof. (Dr.) Samir Dev Gupta, Dean of Academics</i> , Jaypee University of Information Technology, Waknaghat, India
12:00 PM	Summary and Thanks.....
12:15 PM	FDP Open for participants.....



Date	Timing	Speaker	Title
27 th July, 2020	12:15AM - 01:45PM	Dr. Dinesh Kumar Saini, <i>Sohar University, Oman</i>	Security is Moving Target
	03:30PM- 04:30PM		Discussion of Tools used
28 th July, 2020	10:30AM - 12:00PM	Dr. Sushma Jain, <i>Thapar Institute of Engineering & Technology, Patiala, India</i>	Deep architecture, learning algorithms & CNN
	02:00PM - 03:30PM		Hands-On
	03:45PM- 04:45PM		Self-Practice Session
29 th July, 2020	10:30AM - 12:00PM	Dr. Amritpal Singh, <i>National Institute of Technology, Jalandhar, India</i>	Probabilistic data structures
	02:00PM - 03:30PM		Hands-On
	03:45PM- 04:45PM		Self-Practice Session
30 th July, 2020	10:30AM - 12:00PM	Dr. Mohit Saini, <i>National Institute of Technology, Jalandhar, India</i> &	Cloud Computing and its Applications
	02:00PM - 03:30PM		Cloud Computing and Virtualisation
	03:45PM- 04:45PM	Dr. Nisha Chaurasiya, <i>National Institute of Technology, Jalandhar, India</i>	Self-Practice Session
31 st July, 2020	10:30AM - 12:00PM	Dr. Rakesh Goyal, <i>IK Gujral Punjab Technical University, Kapurthala, India</i>	Blended learning with Open Broadcaster Software
	02:00PM - 03:30PM		Hands-On
	03:45PM- 04:45PM		Self-Practice Session



Date	Timing	Speaker	Title
1 st August, 2020	10:30AM - 12:00PM	Dr. Bharti Saneja, <i>Project Officer, Department of Higher Education, Haryana, India</i>	Sensor Data Analytics
	02:00PM - 03:30PM		Hands-On
	03:45PM- 04:45PM		Self-Practice Session
3 rd August, 2020	10:30AM - 12:00PM	Dr. Vandana Bhatia, <i>Amity University, Noida, India</i>	Big Data Analytics
	02:00PM - 03:30PM		Hands-On
	03:45PM- 04:45PM		Self-Practice Session
4 th – 5 th August, 2020	10:30AM - 12:00PM	Dr. Sandeep Kumar Panda, <i>ICFAI University, Hyderabad, India</i> & Mr. Tusar Sarma, <i>NVEST Bangalore, India</i>	Blockchain Technology and Applications using Ethereum, Solidity
	02:00PM - 03:30PM		Blockchain Technology and Applications using Ethereum, Solidity
	03:45PM- 04:45PM		Self-Practice Session
6 th August, 2020	10:30AM - 12:00PM	Dr. Gautam Kumar, <i>CMR Engineering College, Hyderabad, India</i>	ECC and Non-Commutative Cryptography with Formal Verifications
	02:00PM - 03:30PM		Hands-On
	03:45PM- 04:45PM		Self-Practice Session
7 th August, 2020	10:30AM - 12:00PM	Dr. Ashima Singh, <i>Thapar Institute of Engineering & Technology, Patiala, India</i>	Distributed Architecture, Cloud Computing Architectures, Hadoop Architecture and Map Reduce
	02:00PM - 03:30PM		Hands-On
	03:45PM- 04:45PM		Self-Practice Session
8 th August, 2020	10:30AM - 12:00PM	Dr. Prashant Kumar, <i>National Institute of Technology, Jalandhar, India</i>	Opportunistic Networking and Device to Device Communication
	02:00PM - 03:30PM	Valedictory Session	NA

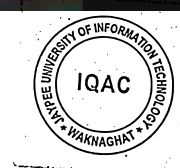


Recent Advances in Computational Intelligence for Signal Processing (RACISP-2020)

REPORT

Department of Electronics and Communication Engineering organized one week online short term course on “**Recent Advances in Computational Intelligence for Signal Processing (RACISP-2020)**”. The program was scheduled from 10th -15th August, 2020. This short term course was coordinated by **Dr. Sunil Datt Sharma** and **Dr. Vikas Baghel**. **Dr. Nafis Uddin Khan** was the convener of the course.

The program was inaugurated by honourable Vice –chancellor (**Prof. Vinod Kumar**) and Dean Research (**Prof. Samir Dev Gupta**). They highlighted the importance of computational techniques in signal processing and motivated the participants. More than 110 faculty members, research scholars from various universities/institutes and industry professionals from different organizations participated in this course.





Expert Sessions:

First session was taken by **Dr. Nafis Uddin Khan** and he focussed on Fuzzy inference based edge detection in digital image processing and also highlighted on the open research problems in this area.

REC

Nafis uddin Khan is presenting

Educational and Experience Details

Introduction

Publications so far

References

PDE based Image Enhancement and De-noising

Anisotropic Diffusion

Critiques of State-of-the-art




Fuzzy based Diffusion Coefficient Function for Edge and Impulse

Low Contrast Image Enhancement by Improved Anisotropic Diff

Critical Observations

contd...

► Sensitive to high gradient impulse noise

Noisy image

k=4, T=100

k=10, T=100

10 / 66

E

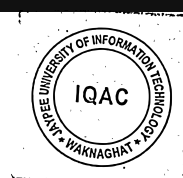
Emjee Puthooran

Nafis uddin Khan

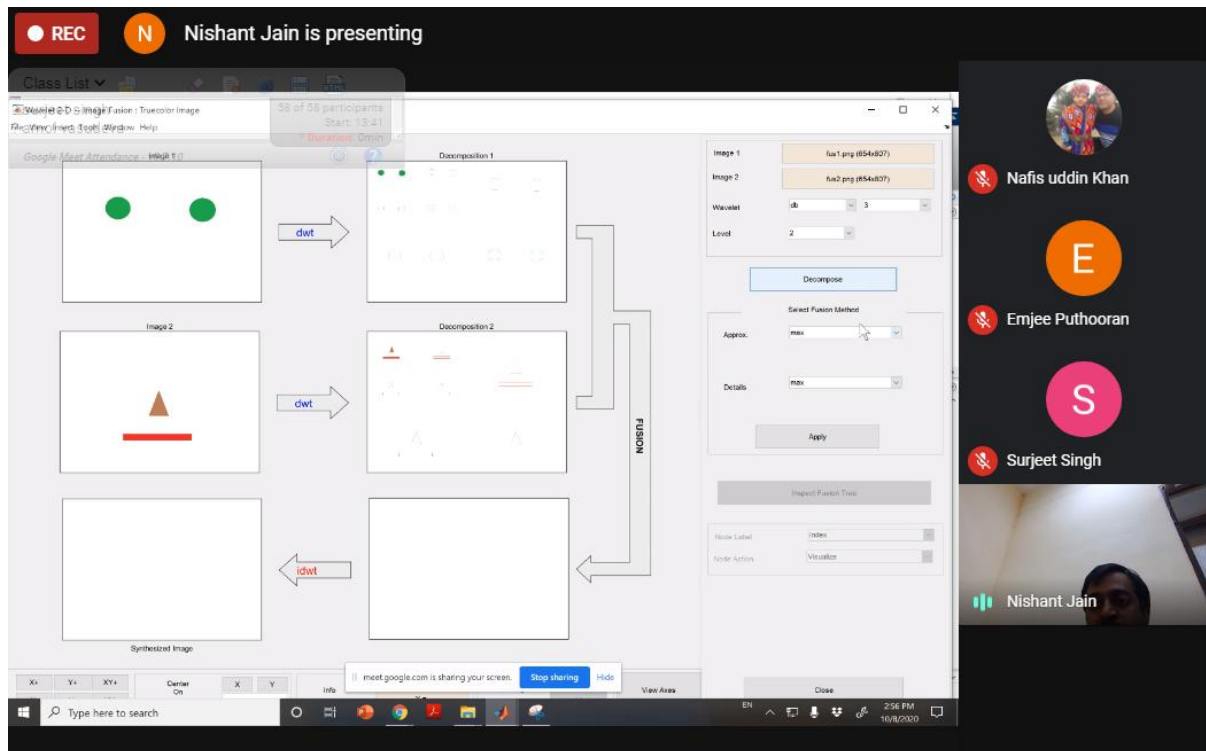
J

Jagpreet Sidhu

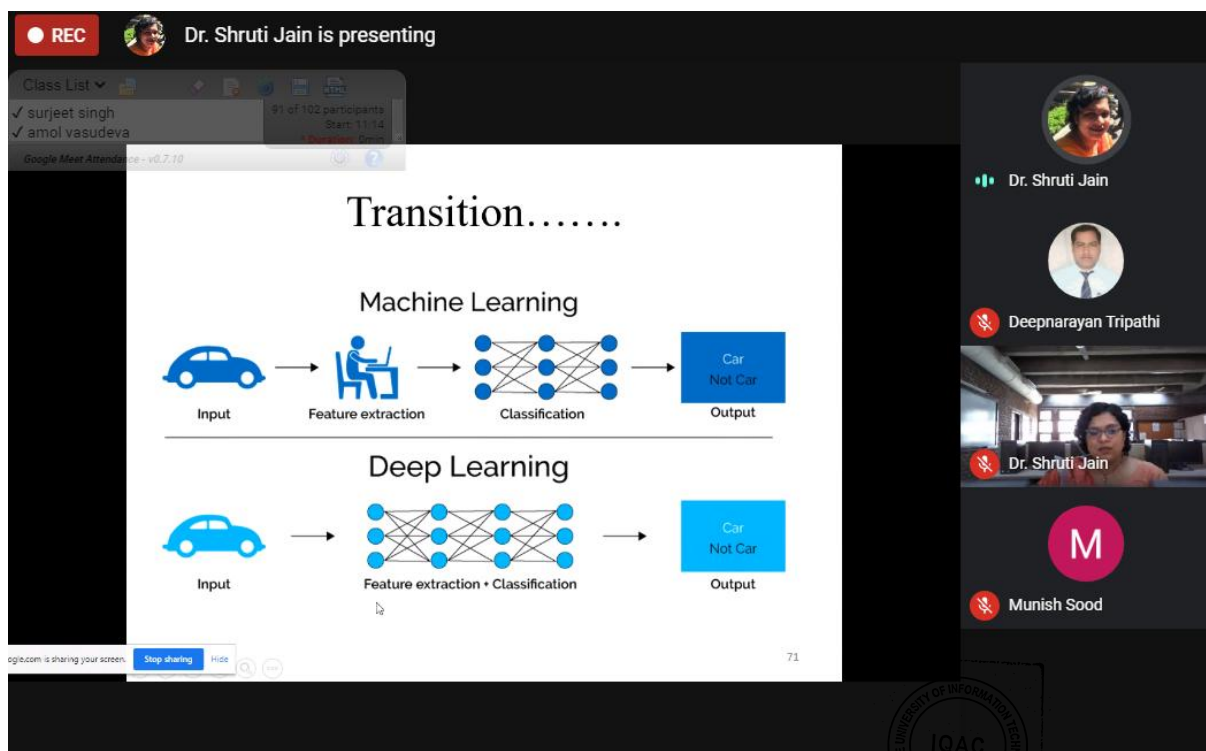
sunil datt sharma



Dr. Nishant Jain discussed about the fusion of biomedical imaging modalities in the second session.



Third Session was conducted by **Dr. Shruti Jain, Associate Professor**, and she highlighted the area of biomedical engineering, time and frequency characterisation of bio signals and bio signal processing. She also motivated the participants to do the research in this area.



Dr. Harsh Sohal discussed the FPGA based digital signal processing and their implementation in fourth session.

How Fast is Enough for DSP?

- It depends!
- **Real time requirements:**
 - Example: data capture speed must match sampling rate. Otherwise, data will be lost.
 - Example: in verbal conversation, delay of response can not exceed 50ms end-to-end.
 - Processing must be done by a specific **deadline**.
 - A constraint on **throughput**.
- Different throughput rates for processing different signals
 - Throughput \propto sampling rate.
 - CD music: 44.1 kHz
 - Speech: 8-22 kHz
 - Video (depends on frame rate, frame size, etc.) range from 100s kHz to MHz.

The meeting interface shows Dr. Harsh Sohal as the active speaker, with a grid of other participants including KALAISELVI A and 38 more.

Fifth session & Sixth session were taken by Dr. Sunil Datt Sharma with Mr. Pardeep Garg and they discussed about the importance genomics signal processing in coming era and also discussed the open research research directions in this area.

sunil datt sharma is presenting

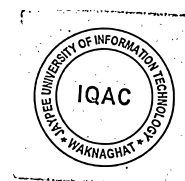
Class List: pushpendra kumar saini, sunil datt sharma

Start: 11:34, Duration: 0min

Google Meet Attendance - v0.7.10

The presentation slide illustrates the process of alternative splicing. It shows a gene with five exons (1-5). Through alternative splicing, three different RNA molecules are produced, each containing a different combination of exons. These RNA molecules are then translated into three different proteins: Protein A, Protein B, and Protein C. The diagram shows that Protein A is formed from exons 1, 2, 3, and 4; Protein B from exons 1, 2, 3, and 5; and Protein C from exons 1, 2, 4, and 5.

The meeting interface shows Dr. Sunil Datt Sharma as the active speaker, with a grid of other participants including Kumutha D., Jagpreet Sidhu, and Prince Subhashish Dwivedi.



Session seven was taken by **Dr. Vikas Baghel** and he discussed the fundamentals and evolutionary methods for multi-objective optimization. He also conducted hand-on-session on the same topic in eighth session.

Definitions

Domination :
One solution is said to dominate another if it is **better in all objectives**.

Non-Domination [Pareto points] :
A solution is said to be non-dominated if it is **better than other solutions in at least one objective**.

- ✓ A dominates B (better in both f_1 and f_2)
- ✓ A dominates C (same in f_2 but better in f_1)
- ✓ A does not dominate D (non-dominated points)
- ✓ A and D are in the "**Pareto optimal front**"
- ✓ These non-dominated solutions are called Pareto optimal solutions.
- ✓ This non-dominated (trade-off) curve is said to be **Pareto front**.
- ✓ The concept of optimizing one performance on the cost of other is termed as **Pareto Optimality**.

6

Vikas Baghel

Dr. Emjee Puthooran conducted talk and hands on session machine learning using python in ninth and tenth session respectively.

REC **E** Emjee Puthooran is presenting

Class List

03.02-Understanding-the-k-NN-Algorithm-Copy1

```

In [10]: single_label = np.random.randint(0, 2)
single_label

Out[10]: 1

Turns out that this data point would have class 0.

Let's wrap this process in a function that takes as input the number of data points to generate (that is, num_samples) and the number of features every data point has (that is, num_features).

In [ ]: def generate_data(num_samples, num_features=2):
        """Randomly generates a number of data points"""
        data_size = (num_samples, num_features)
        train_data = np.random.randint(0, 100, size=data_size)
        labels_size = (num_samples, 1)
        labels = np.random.randint(0, 2, size=labels_size)
        return train_data.astype(np.float32), labels

Let's put the function to test and generate an arbitrary number of data points, let's say eleven, whose coordinates are chosen randomly.

In [ ]: train_data, labels = generate_data(11)
train_data

As we can see from the preceding output inspect the first data point with its coord

```

Emjee Puthooran

Y

X

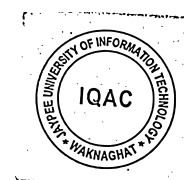
Yugal Kumar

X

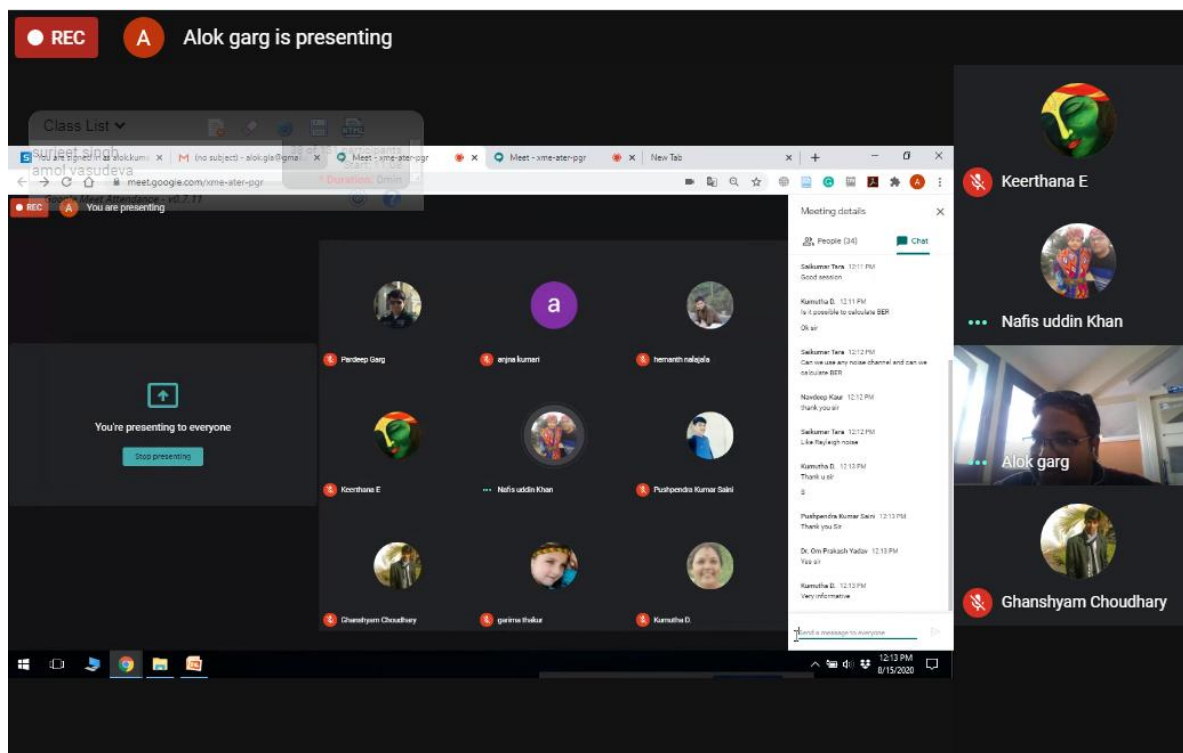
Jagpreet Sidhu

X

Deepnarayan Tripathi



Eleventh session was taken by **Dr. Alok Kumar** on role of threshold in spectrum sensing and he also highlighted on open research directions in this area.

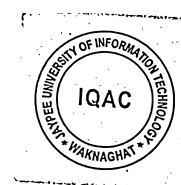


In the last session of the course, queries of the participants were answered by all speakers and suggestions from the participants were taken.

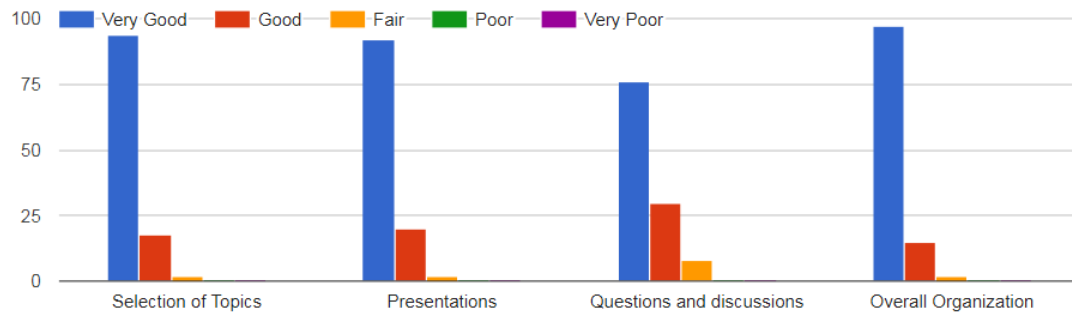
The short term course was concluded with valedictory function. The highlights of the course were given by **Dr. Vikas Baghel**. The valedictory speech was given by **Dr. Nafis U. Khan**. The vote of thanks was given by **Dr. Sunil Datt Sharma**. He highlighted the immense contribution of the Organizing Committee members and experts. He presented a special thanks to **Prof. Vinod Kumar**, Vice-chancellor, **Prof. Samir Dev Gupta**, Dean Research and **Dr. Rajiv Kumar**, Program chair & HoD ECE. He also showed his gratitude towards all speakers for their wonderful talks. He also thanked all the participants who made this event a grand success by participating wholeheartedly.

Feedback by Participants:

Most participants felt that the correct direction and knowledge for conducting scientific research was obtained in the short term course.

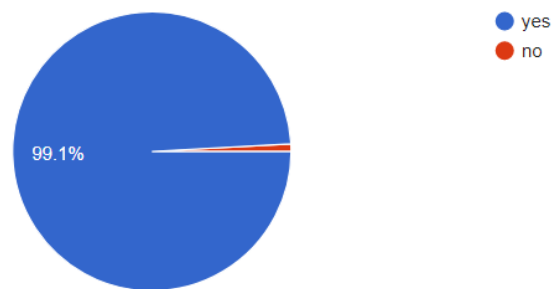


What is your rating of the following aspects of STC?



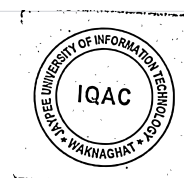
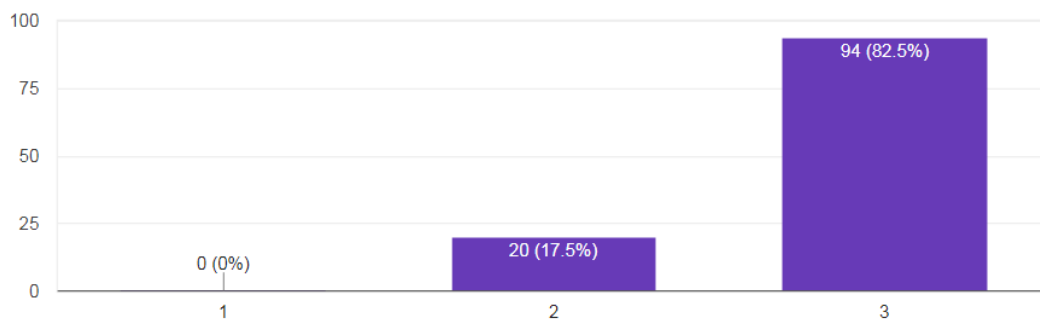
Did the STC meet your learning and research objectives?

114 responses



What is your overall evaluation of the short term course?

114 responses



Workshop on Waste Management – Issues and Concerns 2020

An online two day Workshop on '*Waste Management – Issues and Concerns*' was organized by the department of Civil Engineering Jaypee University of Information Technology (JUIT), Waknaghat from 20th to 21st August 2020.

The program was successfully completed under the auspices of

- Prof. Vinod Kumar – Vice Chancellor of JUIT Waknaghat and Patron of the organized Workshop by Civil Engineering Department.
- Prof. SamirDev Gupta – Director and Dean of Academics of JUIT Waknaghat
- Major General Rakesh Bassi (Retd.) - Registrar and Dean of Students of JUIT Waknaghat
- Prof. Ashok Kumar Gupta – HOD of Civil Engineering Department of JUIT Waknaghat and Program Chair of the organized Workshop by Civil Engineering Department.
- Dr. Rajiv Ganguly – Associate Professor of Civil Engineering Department of JUIT Waknaghat and Program Convener of organized Workshop by Civil Engineering Department.
- Dr. Rishi Rana – Assistant Professor of Civil Engineering Department of JUIT Waknaghat and Program Convener of organized Workshop by Civil Engineering Department
- Mr. Kaushal Kumar - Assistant Professor of Civil Engineering Department of JUIT Waknaghat and Program Coordinator of organized Workshop by Civil Engineering Department

The Workshop on '*Waste Management – Issues and Concerns*' comprised mainly of invited and guest lecturers from eminent speakers of renowned institutes covering multifaceted aspects on progress, developments, legislations and existing drawbacks in Waste Management. Table 1 highlights the program schedule of the conducted Workshop including the names and organizations of the speakers along with the title of lectures (talks) delivered by them.

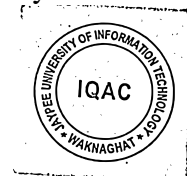
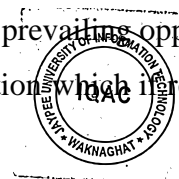


Table 1: Schedule and Details of Lecture presented by different speakers in the Workshop 2020

Date	Time	Name of Resource Person	Title of Presentation
21/08/2020	10.30 -11.00 AM	Inaugural Session	Inaugural Lecture
	11.00 AM – 12:00 AM	Prof. Babu Alappat (IIT Delhi)	Rapid Characterization Of MSW For Integrated Waste Processing Systems.
	12.30 -01.30 PM	Dr. Anoop Verma (Thapar University)	Application of waste material towards environmental remediation; Value addition to the waste.
	01.30 -02.30 PM	Prof. M. Chandrasekhar (NIT Warangal)	Estimation of Indices for Assessment of Quality of Compost Derived from Municipal Solid Waste.
	02.30 -03.30 PM	Ms. Nidhi Sharma/Etoshia Chatterjee (Waste Warriors, Dharamshala)	Waste management in Sensitive Ecosystems – Success and Challenges.
22/08/2020	10.00 -11.00 AM	Sh. S.K Shandil (Environmental Engineer, Himachal Pradesh Pollution Control Board, Shimla)	Waste Management: Rules and regulations
		Dr. Shakti Arora (PEC Chandigarh)	Solid Waste Management
	12.00 - 01.00 PM	Sh. Pradeep Sangwan (National University of Singapore)	Waste Management Issues in Himachal Pradesh
	01:00 – 01:30 PM	Prof. Ashok Kumar Gupta (HOD CE – JUIT)	Valedictory Session and Closure

The workshop was conducted mainly to gain knowledge on the current practices of waste management and to provide a platform for interaction between academicians, senior scientists, research scholars, NGO's and all other personals involved in MSW management at different levels. Further, the workshop was conducted so that the faculty members and the different participants could get more acquainted with recent developments and prevailing opportunities for research in waste management with additional and pertinent information which is required could



be incorporated in up gradation of existing courses or development of new courses to make the students more aware. The program started at 10.30 AM in the morning and continued till 3.30 PM in the afternoon on the first day with minimum of three lectures per day followed by question-answer sessions on the topics presented by different eminent speakers. A detail summary of the topic discussed during the entire Workshop program is summarized in Table 1.

The participation in the Workshop was overwhelming with a large number of participants from outstation locations with some participants joining from Karnataka, Gujarat, Chhattisgarh and other such states. Further, there were more than 15 foreign participants who had joined to attend the program. The overall summary of the participants present in the Workshop program is summarized in Table 2.

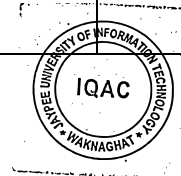
Table 2: Summary of participation Details in the Workshop 2020

Total Number of Registered participants	246
Total Number of external participants	200

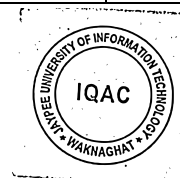
Session wise summary of participants is presented in Table 3 below.

Table 3: Session wise summary of participation Details in the Workshop program 2020

Date	Time	Name of Resource Person	Title of Presentation	Maximum number of participants	Minimum number of participants	Percentage of external participants	Percentage of internal participants
20/08/2020	10.30 - 11.00 AM	Inaugural Session	Inaugural Lecture	100+	65+	75%	25%
	11.00 AM – 12:00 AM	Prof. Babu Alappat (IIT Delhi)	Rapid Characterization Of MSW For Integrated Waste Processing Systems.	100+	65+	75%	25%
	12.30 - 01.30 PM	Dr. Anoop Verma	Application of waste material	90+	55+	75%	25%



		(Thapar University)	towards environmental remediation; Value addition to the waste.				
	01.30 - 02.30 PM	Prof. M. Chandrasekhar (NIT Warangal)	Estimation of Indices for Assessment of Quality of Compost Derived from Municipal Solid Waste.	90+	55+	75%	25%
	02.30 - 03.30 PM	Ms. Nidhi Sharma/Etosh Chatterjee (Waste Warriors, Dharamshala)	Waste management in Sensitive Ecosystems – Success and Challenges.	90+	55+	75%	25%
21/08/2020	10.00 - 11.00 AM	Sh. S.K Shandil (Environmental Engineer, Himachal Pradesh Pollution Control Board, Shimla)	Waste Management: Rules and regulations	80+	50+	75%	25%
	11.00 AM – 12:00 PM	Dr. Shakti Arora (PEC Chandigarh)	Solid Waste Management	80+	50+	75%	25%



	12.00 - 01.00 PM	Sh. Pradeep Sangwan (National University of Singapore)	Waste Management Issues in Himachal Pradesh	80+	50+	75%	25%
	01:00 – 01:30 PM	Prof. Ashok Kumar Gupta (HOD CE – JUIT)	Valedictory Session and Closure	80+	50+	75%	25%

Other Salient Features

- Video Recording of all lectures by the speakers for the Workshop available with the organizing committee.
- Presentation slides of all lectures by the speakers for the Workshop available with the organizing committee and has been distributed to participants
- Certificates of participation issued to all registered participants.
- Certificates of resource persons issued to all the listed speakers
- Feedback collected from participants for further improvement in conducting such future online Workshops
- Feedback collected from speakers for their inputs in conducting such future online Workshops

Summary Statistics of Feedback received from Participants and Speakers are summarized below in Tables 4 and 5 respectively.

Table 4: Participant feedback details of the Workshop 2020

Total number of participants feedback	153
Overall average feedback score	<p>Excellent (71%); Very Good (26%); Good (3%)</p> <p>Based on a 5 point scale rating system (1- 5; [poor to excellent])</p>

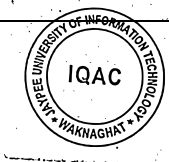


Table 5: Speaker feedback details of the Workshop 2020

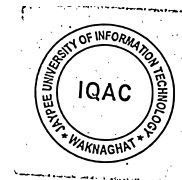
Total number of Speaker feedback	7
Overall average feedback score	Excellent (71%); Very Good (29%); Based on a 5 point scale rating system (1- 5; [poor to excellent])

Rajiv Ganguly

Associate Professor

Department of Civil Engineering

JUIT Waknaghat



WHO CAN REGISTER?

- Faculty Members
- Research Scholars

REGISTRATION

There is no registration fee for the participants to attend the FDP. E-certificate will be provided to all participants after successful completion of FDP.

You can registered with the following link:

<https://forms.gle/peQCiAhQQVVSuMsd9>

IMPORTANT DATE

Last Date for Registration: 29th August, 2020

RESOURCE PERSONS

Dr. Vijay Kumar, NIT Hamirpur, HP

Dr. CS Azad, NIT Jamshedpur Jharkhand

Dr. BK Sarkar, BIT Mesra, Ranchi

Dr. Mukta Muzamdar, University of North Bengal

Dr. Parneeta Sidhu, Manav Rachna University, Faridabad

Dr. Sumit Gupta, Amity University, Noida

Dr. Vijinder Singh, UPES Dehradun

Dr. Meenakshi, NITTTR Chandigarh

Mr. Deepesh Kumar, TCS Kolkata

Dr. Sudeep Kumar, Nirma University Gujarat

Dr. Manoj Diwakar, Graphics Era University Dehradun

*Other resource persons are from Jaypee University of Information Technology, Wagnaghat, Solan (H.P.), India.

CHIEF PATRONS

Prof. (Dr.) Vinod Kumar, Vice Chancellor, JUIT, Wagnaghat

Prof. (Dr.) Samir Dev Gupta, Dean of Academics & HoD, CSE&IT, JUIT, Wagnaghat

Maj. Gen Rakesh Bassi (Retd.), Registrar and Dean of Students, JUIT, Wagnaghat

CONVENORS

Dr. Yugal Kumar, JUIT Wagnaghat

Dr. Pardeep Kumar, JUIT Wagnaghat

COORDINATORS

Dr. Jagpreet Sidhu, JUIT Wagnaghat

Dr. Amit Kumar, JUIT Wagnaghat

Dr. Mrityunjay Singh, JUIT Wagnaghat

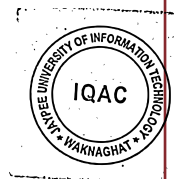
ADDRESS FOR COMMUNICATION

Dr. Yugal Kumar,
JUIT, Wagnaghat, Solan (H.P.)-173234
Mob: 9897709834

Dr. Mrityunjay Singh,
JUIT, Wagnaghat, Solan (H.P.)-173234
Mob: 9045372346
E-mail: citml.juit@gmail.com



**JAYPEE UNIVERSITY OF
INFORMATION TECHNOLOGY**
Wagnaghat-173234



JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY Wagnaghat-173234

(Established under H.P. Legislative
Assembly Act No. 14 of 2002 and
Approved by UGC under section 2(f))

One Week Faculty Development Program

on

**“Computational Intelligence
Techniques for Machine Learning”**

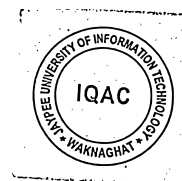


August 31st - 5th September, 2020

Organized By

**Department of Computer Science &
Engineering and Information
Technology**

S.No.	Date	Time	Topic	Faculty	Venue
1	22-Dec-20	10:30 - 12:30	Introduction to MIT app Inventer	Dr. Vikash Baghel	CL-1
2		14:30 - 16:30	Bulding Mobile application	Dr. Vikash Baghel	
3	23-Dec-20	10:30 - 12:30	Interfacing with Arduino	Dr. Vikash Baghel	CL-1
4		14:30 - 16:30	Creation of a new project in MIT app Inventer	Dr. Vikash Baghel	
5	29-Dec-20	10:30 - 12:30	Tinkercad	Mr.Munish Sood	CL-1
6	30-Dec-20	10:30 - 12:30	Tinkercad	Mr.Munish Sood	CL-1
7	31-Dec-20	9:30 - 12:30	Interaction with the lab staff	Dr.Salman Talluri	ECL-5
8	31-Dec-20	16:00- 16:30	Interaction with the lab staff	Dr.Salman Talluri	ECL-5
9	02-Jan-21	15:00 - 17:00	Lab view for Digital Signal Processing Lab	Dr. Sunil Datt Sharma	CL-1
10	04-Jan-21	15:00 - 17:00	Lab view for Digital Signal Processing Lab	Dr. Sunil Datt Sharma	CL-1
11	05-Jan-21	10:30 - 12:30	Python Programming	Dr. Emjee Puthooran	CL-1
12		14:30 - 16:30			
13	07-Jan-21	09:30 - 12:30	WiCOMM-T SDR kit.	Dr. Shweta Pandit	ECL-8
14		15:30 - 16:30	Experiments of Electrical Science Lab	Dr. Shweta Pandit	ECL-1
15	08-Jan-21	10:30 - 12:30	Signals and Communication Systems with MATLAB	Mr. Pradeep Garg	CL-1
16		14:30 - 16:30			
17	09-Jan-21		Verilog HDL	Dr. Harsh Sohal	CL-1
18		12:00 - 13:30			CL-1



Faculty Development Program on ‘Waste management for Sustainable Development’

An online one week Faculty Development Program on ‘Waste Management for Sustainable Development’ was organized by the department of Civil Engineering Jaypee University of Information Technology (JUIT), Wagnaghat from 4th to 8th January 2021.

The program was successfully completed under the auspices of

- Prof. Vinod Kumar – Vice Chancellor of JUIT Wagnaghat and Patron of the organized FDP by Civil Engineering Department.
- Prof. Samir Dev Gupta – Dean of Academics of JUIT Wagnaghat
- Major General Rakesh Bassi (Retd.) - Registrar and Dean of Students of JUIT Wagnaghat
- Prof. Ashok Kumar Gupta – HOD of Civil Engineering Department of JUIT Wagnaghat and Program Chair of the organized Workshop by Civil Engineering Department.
- Dr. Rishi Rana – Assistant Professor of Civil Engineering Department of JUIT Wagnaghat and Program Convener of organized Workshop by Civil Engineering Department
- Mr. Kaushal Kumar - Assistant Professor of Civil Engineering Department of JUIT Wagnaghat and Program Convener of organized Workshop by Civil Engineering Department

The FDP on ‘*Waste Management for Sustainable Development*’ comprised mainly of invited and guest lecturers from eminent speakers of renowned institutes covering multifaceted aspects on progress, developments, legislations and existing drawbacks in Waste Management. Table-1 highlights the program schedule of the conducted FDP including the names and organizations of the speakers along with the title of lectures (talks) delivered by them.

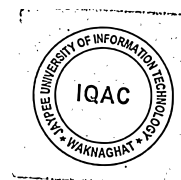
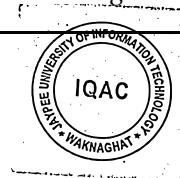


Table 1: Schedule and Details of Lecture presented by different speakers in the FDP 2021

Date	Time	Name of Resource Person	Title of Presentation
04/01/2021 (Monday)	10:30AM-10:45 AM	Inaugural Session	<i>Inaugural Lecture</i>
	10:45AM-12:00PM	Dr. Bharat Bhushan , IOSH, CWMP, IWM, Consultant, Splash International, Kolkata	<i>Household Hazardous and Sanitary Waste Management</i>
	12:00PM-01:15PM	Dr. Nitin Goyal , Principal Scientist, CSIR-NEERI, Mumbai Zonal Centre, Mumbai	<i>Air Quality Management to Achieve the Sustainable Development Goals in India</i>
05/01/2021 (Tuesday)	10:00 AM-11:15 AM	Prof. N S Maurya , Dept. of Civil Engg., NIT Patna	<i>Human excreta: A key resource for sustainable development</i>
	11:15 AM-12:30 PM	Mr. Aloysius CC , Consultant, POLUCHEM Laboratories Pvt. Ltd., Kalamassery , Kerala	<i>Significance of Effluent Treatment Plant in Slaughterhouse and Meat Processing Units</i>
06/01/2021 (Wednesday)	10:00 AM-11:15 AM	Dr. Nikhil Saboo , Assistant Professor, Dept. of Civil Engg., IIT(BHU) Varanashi	<i>Mix Design of Reclaimed Asphalt Pavement Materials</i>
	11:15 AM-12:30 PM	Prof. Meena Kumari Sharma , Head Dept. of Civil Engg., Manipal University, Jaipur	<i>Waste Management Techniques in Non-Sewered Areas</i>
07/01/2021 (Thursday)	10:00 AM-11:15 AM	Dr. Amit Kumar , Assistant Professor, Dept. of Civil Engg., NIT Jaipur	<i>Machine Learning in Waste Management</i>
	11:15 AM-12:30 PM	Dr. Himangana Gupta , Postdoctoral Fellow, United Nations University, Tokyo	<i>National Greenhouse Gas Emissions from the Waste Sector</i>
08/01/2021 (Friday)	10:00AM-11:15AM	Dr. Kamalpreet Kaur , Environmental and Sustainability Consultant Analyst (R&D), Vinz Inc, Toronto, CANADA	<i>Waste Management for Sustainable Development” with main focus on Plastics/Micro-plastics</i>
	11:15AM-12:30PM	Shalini Goyal Bhalla , M D, International Council for Circular Economy, Delhi	<i>Circular Economy and its competitive advantage</i>
	12:30PM-01:00PM	Prof. A.K. Gupta , HOD CE, JUIT	<i>Closing Ceremony</i>



The FDP was conducted mainly to gain knowledge on the current practices of waste management and to provide a platform for interaction between academicians, senior scientists, research scholars, NGO's and all other personals involved in waste management and legislations at different levels. Further, the FDP was conducted so that the faculty members and the different participants could get more acquainted with recent developments and prevailing opportunities for research in waste management with additional and pertinent information which if required could be incorporated in up gradation of existing courses or development of new courses to make the students more aware. The program started at 10.30 AM in the morning and continued till 2.30 PM in the afternoon on the first day with minimum of three lectures per day followed by question-answer sessions on the topics presented by different eminent speakers. A detail summary of the topic discussed during the entire FDP program is summarized in Table 1.

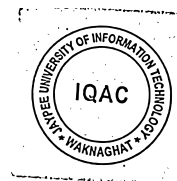
The participation in the FDP was overwhelming with a large number of participants from outstation locations with some participants joining from Karnataka, Gujarat, Chhattisgarh and other such states. Further, there were more than 15 foreign participants who had joined to attend the program. The overall summary of the participants present in the Workshop program is summarized in Table 2.

Table 2: Summary of participation Details in the FDP 2021

Total Number of Registered participants	108
Total Number of external participants	76

Other Salient Features

- Video Recording of all lectures by the speakers for the FDP available with the organizing committee.
- Presentation slides of all lectures by the speakers for the FDP available with the organizing committee and has been distributed to participants
- Certificates of participation issued to all registered participants.



- Certificates of resource persons issued to all the listed speakers Feedback collected from participants for further improvement in conducting such future online FDPs
- Feedback collected from speakers for their inputs in conducting such future online FDPs.

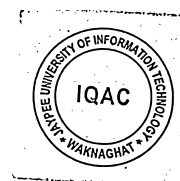
Summary Statistics of Feedback received from Participants and Speakers are summarized below in Tables 3 and 4 respectively



Table 3: Participant feedback details of the FDP 2021

Total number of participants feedback	63
Overall average feedback score	<p>Excellent (75%); Very Good (22%); Good (3%)</p> <p>Based on a 5 point scale rating system (1- 5; [poor to excellent])</p>

Table 4: Speaker feedback details of the FDP 2021

Total number of Speaker feedback	10
Overall average feedback score	<p>Excellent (71%); Very Good (29%);</p> <p>Based on a 5 point scale rating system (1- 5; [poor to excellent])</p>




JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
Waknaghat, Teh. Kandaghat, Distt. Solan -173 234, (H.P.), India

WORKSHOP ON
“Women Innovations and IPR”
March 08 - 13, 2021
Organized by IPR cell
(Celebrating International Women's Week)

Talk Time Schedule

All are requested to fill the Google form and join what's up group for recent updates.

Link: <https://forms.gle/9fC1SbYcF3AV9RoB8>

Google meet link for the event is meet.google.com/vbu-cjek-wur

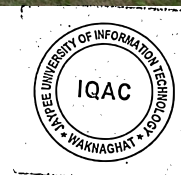
3:00PM-4:00PM

Date	Talk
March 08, 2021	Dr. Sanjiv Majumdar, Manager, National Research Development Corporation, Delhi
March 09, 2021	Mr. Awab Habib Fakih, Student Alliance LLP, Ministry of Commerce and Industry, Government of India, West Mumbai
March 10, 2021	Ms. Raj Latha Kotni, Lexport, Advocates & Legal Consultants
March 12, 2021	Dr. Mini Namdeo, Executive Officer, IPR Cell, IIT Roorkee
March 13, 2021	Dr. Ranjana Pathania, Professor, Department of Biotechnology & MHRD-IPR Chair Member, IIT Roorkee

Report

“Women Innovations and IPR”

IPR Cell JUIT organized a one week workshop on “Women Innovations and IPR” in Jaypee University of Information Technology in collaboration with Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE) from March 08 - 13, 2021.

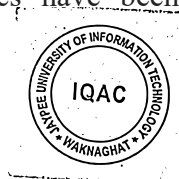




Details of the events of workshop are:

Date	Events	Title
March 08, 2021	Dr. Sanjiv Majumdar, Manager Manager in StartUp Activities & Intellectual Property Division, National Research Development Corporation, Delhi	IPR Spectrum and opportunities for researchers, entrepreneurs
March 09, 2021	Mr. Awab Habib Fakih, Student Alliance LLP, Ministry of Commerce and Industry, Government of India, West Mumbai	Basic of IPR & Indian Patent Filling Procedure
March 10, 2021	Ms. Raj Latha Kotni, Lexport, Advocates & Legal Consultants	Women in IPR
March 12, 2021	Dr. Mini Namdeo, Executive Officer, IPR Cell IIT Roorkee	Innovation to IP Management
March 13, 2021	Dr. Ranjana Pathania, Professor, Department of Biotechnology & MHRD-IPR Chair Member, IIT Roorkee	Antibody Resistance- more than a Pandemic.

We received overwhelming responses not only from Himachal Pradesh but also from the states of Punjab, Tamil Nadu, Orrisa, Gujarat, Maharashtra, Telangana, and Karnataka. The total no. of entries received for the workshop was 40. E-certificates have been given to all active participants.



Mini Namdeo Giri is presenting

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

INNOVATION TO IP MANAGEMENT

Workshop on "Women Innovations and IPR"
IIT ROORKEE
March 12, 2021
Dr. Mini Namdeo
IPR Cell, IIT Roorkee

REC Awab Fakih is presenting

HIMANI BHARDWAJ 206... and 4 more

15:00

Participants: You, Mini Namdeo, Jyotsna Bajaj, ENAMUL HAQ, Chakrapani K., Mohan Sharma, GARIMA THA, Triambica Ga, Rahul Shrivast, Rohit Sharma, Ashok Kistwal, Hemraj Saini

Thank you
Whatsapp/Call : **08976104646**
Email Id : fakihawab@gmail.com
<https://www.facebook.com/awabfakih>
<https://www.linkedin.com/in/awabfakih/>
<https://twitter.com/fakihawab>
Profile : www.awabsir.com
AWAB HABIB FAKIH
EDUCATOR @ AIKTC | EDUPRENEUR | PATENT ANALYST

AWAB FAKIH and 16 more

15:51

Participants: You, Awab Fakih, Hemraj Saini, gopal bisht, Ghanshyam ECE, Jitendra Mohan, Shweta Pandit, Ashok Kistwal, Raghav Gupta, Hemant Sood, Sandhya Bansal, Triambica Gauta

REC Dr Sanjeev Majumdar is presenting

NATIONAL RESEARCH DEVELOPMENT CORPORATION
IPR Spectrum and opportunities for researchers, entrepreneurs

8th March 2021 15:00

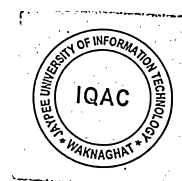
Dr. Sanjeeva Kumar Majumdar
Manager - IPR, StartUps & Incubation

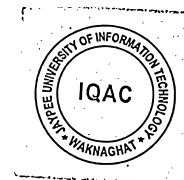
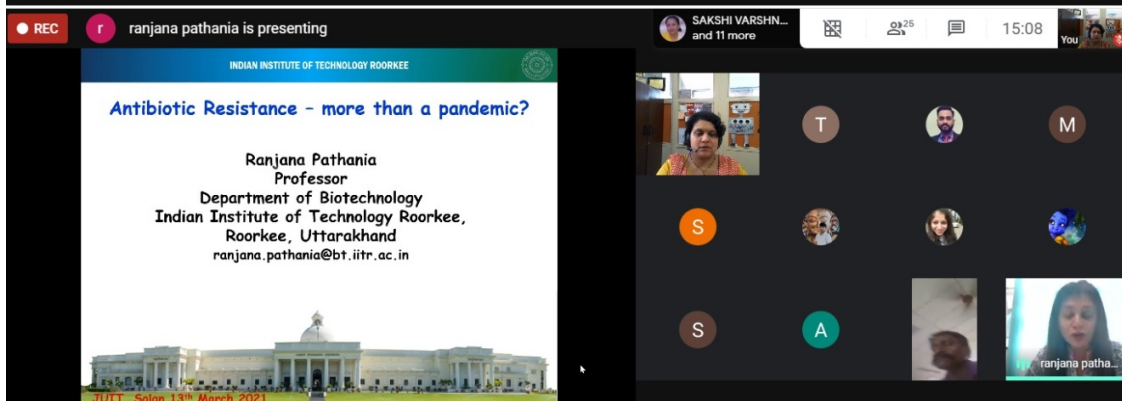
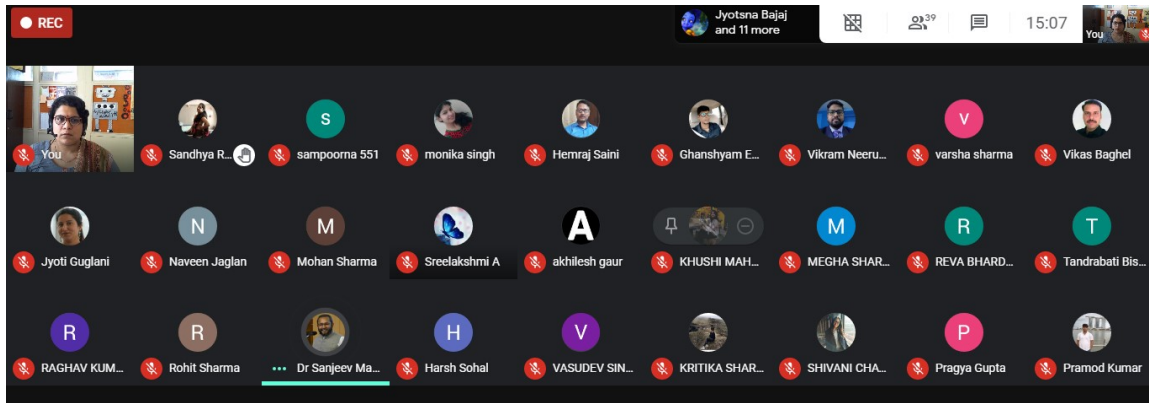
NATIONAL RESEARCH DEVELOPMENT CORPORATION
20-22, Zamroodpur Community Centre,
Kailash Colony Extension, New Delhi
Delhi - 110048

Pramod Kumar and 26 more

15:08

Participants: Dr Sanjeev M., S, V, M, P





REC Awab Fakhri is presenting

Basic fees for filling of patent in India under Form 1,2,3,5,26

Entity Type	Filing Type	Fee (INR)
Natural	E-filing	1600
	Physical Filing	1750
Small Entity	E-filing	4000
	Physical Filing	4400
Other than Small Entity	E-filing	8000
	Physical Filing	8800

Govt. Fees Structure for filling Patent

3/9/2021 AWAB FAKHRI | PATENT ANALYST - EDUPRENUJER - EDUCATOR | 6

Participants: You, Awab Fakhri, Hemraj Saini, gopal bisht, Ghanshyam ECE, monika singh, Jitendra Mohan, Ashok Kistwal, Raghav Gupta, Hemant Sood, Sandhya Bansal, Triambica Gautam...

REC Mini Namdeo Giri is presenting

The 5 female inventors

- Joyce Chen**
Chen's patent is for a flat-bottom wok with a handle, also known as a stir fry pan. Her patent, however, only hints at Chen's impact on the American culinary scene; Chen pioneered the all-you-can-eat Chinese buffet style, and popularized Northern-style Chinese food.
- Patricia Bath**
Source: Scholastic
Have you ever had laser eye surgery? You have Patricia Bath to thank for that. The first African American to complete a residency in ophthalmology in 1973. Bath invented the Laserphaco Probe, which uses laser technology to treat cataracts.
- Stephanie Kwolek**
Kevlar has many applications: bullet-proof vests, tennis rackets, tires, hurricane safe rooms, etc. Stephanie Kwolek was a chemist at DuPont when she invented the synthetic poly-paraphenyleneterephthalamide, a.k.a. Kevlar.
- Ann Makosinski**
One of the younger inventors on this list, Makosinski created the "Hollow Flashlight," which uses a thermoelectric effect to convert body heat into electricity to power LED bulbs. She also appeared on Forbes 2017 "30 Under 30" list.

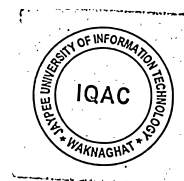
11T ROOM 303 37

Participants: You, Triambica Gautam, Pragya Gupta, Mini Namdeo Giri, Vikas Baghel, Mohan Sharma, Hemant Sood, Harsh Sohal, Rohit Sharma, Rahul Shrivastava, Chakrapani Kann..., Shweta Pandit

REC Rohit Sharma and 8 more

Participants: You, V, A, S, J, M, T, and 8 others.

The workshop was ended with the vote of thanks by IPR cell co-coordinator Dr. Shruti Jain.





**Jaypee University of Information
Technology, Wagnaghat, Solan, H.P.**



RESEARCH AND INNOVATION SHOWCASE (RAISE)

Organized by

IPR CELL

Industry and Academia personnel are invited to submit an **INNOVATION PROPOSAL**

Step-1: Abstract submission (300-350 words).

Step-2: Shortlisted participants should submit a Poster and a short video of 5 minutes.

Themes of RAISE

- Electronics & Communication Engineering.
- Computational Biology & Bioinformatics
- Computer Science Engineering
- Civil Engineering
- Basic Sciences
- Other Interdisciplinary Areas

Mechanisms and Benefits of R.A.I.S.E.

- Declaration of final result by **March 25, 2021**
- e-Certificates will be given to all the participants.
- Exciting three Cash Prizes

**1st – Rs. 2000/-, 2nd – Rs.1500/-
3rd – Rs. 1000/-**

E-mail your Entries at-

Dr. Shruti Jain

shruti.jain@juitsolan.in

Dr. Hemraj Saini

hemraj.saini@juitsolan.in

Important Dates:

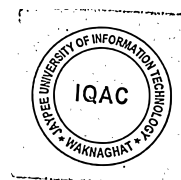
- Abstract submission by **March 20, 2021**
- Declaration of result of first phase **March 22, 2021**
- Poster and video submission by **March 24, 2021**

Report

“Research and Innovation Showcase (RAISE)”

The IPR Cell, Jaypee University of Information Technology, Solan in collaboration with Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE) organized **Research and Innovation Showcase (RAISE)** from March 20 - 25, 2021. The aim of this event is to bring together the industry and academia. The themes for R.A.I.S.E. includes :

- i. Electronics & Communication Engineering.
- ii. Computational Biology & Bioinformatics
- iii. Computer Science Engineering
- iv. Civil Engineering
- v. Basic Sciences
- vi. Other Interdisciplinary Areas

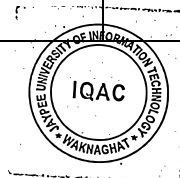


We have received in total **23 innovations** from Chennai, Tamil Nadu, West Bengal, and Himachal Pradesh. Details are :

Research And Innovation Showcase (RAISE)				
S.No	PARTICIPANT NAME	UNIVERSITY/SCHOOL	STATE	Title
1	Ramneek Khurana	3rd year, Biotechnology and Bioinformatics department, JUIT	Himachal Pradesh	Trouble in the Paradise: Stubble Burning
2	Irene Michelle	KCG College of Technology	Karapakkam, Chennai, Tamil Nadu	Smart Sentry
3	Subash.S	SRM Valliammai Engineering College	Kattankulathur, Tamil Nadu	A multitasking robot based on a combination of IoT, Machine Learning and Embedded Systems for farmers
4	Amrisha Vivinya P M A. Prasanth	PSNA College of Engineering and Technology,	Tamilnadu	Smart Electric Pole System
5	Vishnu.R	PSNA College of Engineering and Technology,	Tamilnadu	Smart Irrigation and Water Draining System
6	Lokesh V	College of Engineering Guindy, Anna University,	Chennai	Prediction And Forecasting Epilepsy Based on Advanced Machine Learning Algorithms With Feature Extraction
7	Vansheika	M.Tech Construction Management, JUIT	Himachal Pradesh	An Innovative Empirical Model for Assessing the Effects of Future Pandemics On Status Of Female Labors in Construction Industry
8	Saurabh Tomar	B.Tech Civil Engg, Jaypee University of Information Technology, Waknaghat, Solan(H.P)	Himachal Pradesh	Screw – In Foundation For Street Lights
9	Ishita Satija	B.Tech Biotechnology Engg, Jaypee University of Information Technology,	Himachal Pradesh	



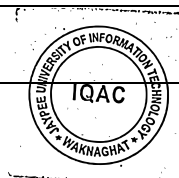
		Waknaghat, Solan(H.P)		
10	Anmol Sharma	B.Tech IT Engg, Jaypee University of Information Technology, Waknaghat, Solan(H.P)	Himachal Pradesh	Nomad Maps
11	Nayanika Sharma, Pranjal Bhatia, Rahul Shrivastava	Deptt of Biotechnology & Bioinformatics, Jaypee University of Information Technology, Waknaghat, Solan(H.P)	Himachal Pradesh	Big Data Analysis of Alzheimer's Disease using Sorting
12	Kirthana.K Mythrayee.G Punithajothi.N	SRM Valliammai Engineering College	Kattankulathur	Real Time Water Quality Monitoring System using IoT
13	Soma Banerjee	Dept. of Education	Purulia, West Benagl	The Analytic Aspect of Phyto-Chemicals of <i>Aloe vera</i> Medicinal Plant of Khetri Region, Rajasthan
14	Dipak Kr. Mandal,	Dept. of English	Purulia, West Benagl	Antimicrobial Effects of Medicinal Plant Extracts on Human Pathogenic Microorganisms
15	Athilingam R Vivitha E Shenbagadevi M	Deptt of ECE, Nadar Saraswathi College of Engineering and Technology	Theni, Tamil Nadu	Real Time Barcode/QR Code Reader using Python
16	Vaishnavi T.V,	PSNA College of Engineering and Technology	Dindigul, Tamil Nadu- 624 622.	Smart Refrigerator Using AI and IOT
17	Shrivaishnavi V	SRMIST	Ramapuram, Chennai 89	Determining the Proportion of Plastic In Plastic Roads
18	Raga Varshini Sneha K Sowmiya M Karthikeyan K	Bannari Amman Institute of Technology	Tamil Nadu	automated gas stove



19	Sunainy Ajrawat, Chhavi Thakur Dr Hemant Sood	Jaypee University of Information Technology, Waknaghat	Himachal Pradesh	In silico profiling of bioactive compounds of Bauhinia variegata and exploring its pharmacological properties
20	Amanjot Singh Malhotra	Jaypee University of Information Technology, Waknaghat	Himachal Pradesh	Artificial Intelligence: A legitimate enforcement for Health Care System
21	Chhavi Thakur	Jaypee University of Information Technology, Waknaghat	Himachal Pradesh	Application of Artificial Intelligence in Bioinformatics and Drug Discovery
22	Sathya V	Muthayammal Engineering College , Biomedical Engineering	Rasipuram	Basic Sciences
23	Monisha S			A Wireless Sensor Networks based Patient Monitoring System using Integrated ECG module, Pulse Oximeter, Blood Pressure and Temperature Sensor

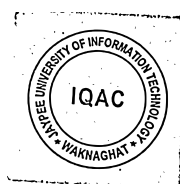
All the innovations which were received were recommendable. The first round was based on Abstract Submission of app 300-350 words which defines the motivation and outcome of the work. March 20, 2021 was the submission date of the abstracts. The committee member comprises Dr. Shruti Jain, Dr. Hemraj Saini and Dr. Hemant Sood has shortlisted 12 innovations. Declaration of the result of first phase has been done by March 22, 2021. It was difficult to further shortlist the innovations. Round 2 is Poster Submission. IPR members have given a fixed template for designing the poster and it has to be submitted by March 24, 2021. Based on the parameters like innovative idea, poster design and benefit to society committee members came up with final decision. The final result was declared on March 25, 2021 and as follows :

RESULT	PARTICIPANT NAME	Title	Amount
First	Anmol Sharma	Nomad Maps	Rs. 2000
Second	Saurabh Tomar	Screw – In Foundation For Street Lights	Rs. 1500
Second	Ishita Satija	Lenfo	Rs. 1500



Third	Vaishnavi T.V,	Smart Refrigerator using AI	Rs. 1000
Third	Raga Varshini Sneha K Sowmiya M Karthikeyan K	Automated Gas Stove	Rs. 1000
Consolation	Amrisha Vivinya P M	Smart Electric Pole System	Participation certificate mentioning result
Consolation	Sunainy Ajrawat, Chhavi Thakur Hemant Sood	In Silico Exploration of Medicinal Compounds of Bauhinia Variegata	Participation certificate mentioning result

E-certificates have been given to all active participants.



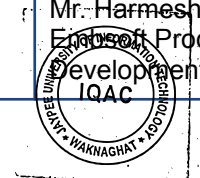
Exit Report of Workshop on Industrial Revolution 4.0 3rd July 2021 to 4th Sep 2021

The Department of Electronics and Communication Engineering, JUIT has organized a Workshop on Industrial Revolution 4.0 with one session organized every Saturday from 3rd July 2021 to 4th Sep 2021.

Industrial Revolution 4.0 comes with the concept of making industries smart and includes technologies like artificial intelligence (AI), robotics, the Internet of Things (IoT), cyber-physical systems, 3D printing, genetic engineering, quantum computing, and many others. Due to the very wide scope of applications, it attracts students, researchers, educators and industrialists from different backgrounds. This workshop will help the participants working or aspiring to work in the field of IoT, Robotics, Smart Home, Cloud Computing, remote sensing, Biomedical, etc. It will help the participants to explore new dimensions for their academic and research activities. Topics to be covered in the workshop are the following: Industry 4.0 technology, Internet of Thing (IoT), Design of Smart Sensors, Cyber Physical Systems, Advanced Robotics, Quantum Cryptography for Internet of Things Security, Wireless Communication for IoT, Industry practices in Artificial Intelligence, and Introduction to Cloud Computing.

Schedule of the workshop was as follows:

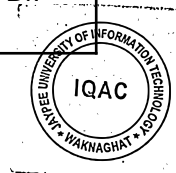
Session	Date	Time	Session Title	Speaker
1	3rd July	11:00 -13:00	Introduction to Industry 4.0 technology	Prof. Ghanshyam Singh, Professor, University of Johannesburg
2	10th July	11:00 -13:00	Introduction to IoT: Research Issues & Challenges	Dr. Vijay Chaurasiya, Associate Professor, IIIT Allahabad
3	17th July	11:00 -13:00	Design of Smart Sensors	Dr. Sandeep Hanwate, Assistant Professor, College of Engineering Pune
4	24th July	11:00 -13:00	Development of IoT applications	Mr. Harresh Lal, Director, Embedded Products Research and Development



5	31st July	11:00 -13:00	Cyber Physical Systems – An insight	Dr. Sahaj Saxena, Assistant Professor, Thapar Institute of Engg & Technology
6	7th Aug	11:00 -13:00	Advanced Robotics and Automation	Mr. Utkarsh Srivastava, Acalvio Technologies, Bengaluru
7	14th Aug	11:00 -13:00	Quantum Key Distribution	Mr. Vivek Kumar, Senior Research Engineer, Centre for Development of Telematics (C-DOT)
8	21st Aug	11:00 -13:00	Data Protocols in IoT Networks	Dr. Pyari Mohan Pradhan, Associate Professor, IIT Roorkee
9	28th Aug	11:00 -13:00	Recent Trends in Data Clustering Algorithms And Their Applications in IoT	Dr. Satyasai Jagannath Nanda, Assistant Professor, MNIT Jaipur
10	4th Sep	11:00 -13:00	Cloud computing Overview – Key to the success of Industry 4.0	Mr. Sanjay Singh, Project Manager, Infosys Ltd.

Following students and Faculty were the part Organizing Team :

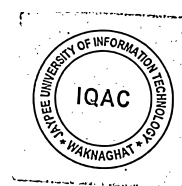
S.No.	Email ID	Name	Responsibility	Faculty Coordinator
1	191034@juitsolan.in	Falguni Bharadwaj	Certificate and End Video designing	Dr. Nishant
2	191040@juitsolan.in	Sanskriti	Reporting of sessions 1,& 2 for website and social media coverage	Dr. Vikas & Dr. Shweta
3	191043@juitsolan.in	SRI naga sai kartik vinnakota	Video editing of Session 1 & 2 for Youtube	Dr. Nishant
4	191002@juitsolan.in	Sagrika Gargya	Hosting all 10 Sessions with Shweta Maam and Pragya Maam	Dr. Shweta and Lt. Pragya Gupta
5	191038@juitsolan.in	Devansh Gupta	Feedback form collection and maintaining attendance sheet	Dr. Vikas
6	191004@juitsolan.in	Pragya Tiwari	Hosting all 10 Sessions with Shweta Maam and Pragya Maam	Dr. Shweta and Lt. Pragya Gupta
7	191028@juitsolan.in	Ritika tiwari	Reporting of sessions 3 & 4 for website and social	Dr. Vikas & Dr. Shweta



			media coverage	
8	191048@juitsolan.in	Prajjwal Shukla	Video editing of Session 3 & 4 for Youtube	Dr. Nishant
9	191012@juitsolan.in	Shikhar Trivedi	Reporting of sessions 5 & 6 for website and social media coverage	Dr. Vikas & Lt Pragya
10	191039@juitsolan.in	Ambar tiwari	Video editing of Session 5 & 6 for Youtube	Dr. Nishant
11	191021@juitsolan.in	Shubham jha	Reporting of sessions 7 & 8 for website and social media coverage	Dr. Vikas & Lt Pragya
12	191045@juitsolan.in	Anjali rana	Video editing of Session 7 & 8 for Youtube	Dr. Nishant
13	191018@juitsolan.in	Pratham bhardwaj	Reporting of sessions 9 & 10 for website and social media coverage	Dr. Vikas & Lt Pragya
14	191046@juitsolan.in	Stuti Roy	Video editing of Session 9 & 10 for Youtube	Dr. Nishant

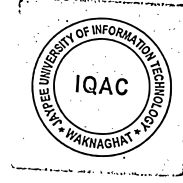
Total of 240 Registrations were received from across the globe.

Category	No. of Participants
Female	60
Participants from JUIT	50
Participants from outside	144
Participants from abroad	9
Employee in Industry	15
Entrepreneurs	2
Faculty	87
Research Scholar	25
Student (UG)	58
Technical staff	5



All the sessions were conducted through Google Meet. Feedback was collected from the participants after every session of the workshop. At the end of the workshop 74 participants with more than 80% attendance were given the e-Certificates. e-Certificate were also given to our keynote speakers as a token of appreciation.

Dr. Nishant Jain, Dr. Shweta Pandit, Dr. Vikas Baghel, and Lt. Pragya Gupta, Assistant Professors in ECE, JUIT were the coordinators for this workshop.



Exit Report
of
Workshop on Image Processing with Deep Learning
(22nd - 26th March 2022)

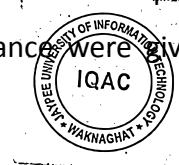
The Department of Electronics and Communication Engineering and Department of CSE/IT, JUIT, Solan has organised a Workshop on Image Processing with Deep Learning between 22nd - 26th March 2022. Deep Learning networks on Image Processing find its application in biomedical, forensic science, remote sensing, agriculture, and in many more. Due to its wide area of applications, it attracts students, researchers, educators and industrialists from different backgrounds like Electronics and Communication Engineering, Computer Science Engineering, Biotechnology and Bioinformatics Engineering and others. This workshop was organized with the aim to help the participants working or intend to work in the area of computer vision, biomedical engineering, forensic analysis, remote sensing images and telemedicine; and to help the participants to explore the new dimensions for their academic and research activities.

Workshop was conducted in hybrid both (both Offline and Online Mode). All the lectures were delivered remotely by keynote speakers, whereas hands-on sessions were conducted by experts in the Lab. All the sessions were made available through googlemeet for the Online Participants

A total of 373 participants had registered for this workshop. We had received registrations from India and globally from countries like Australia, Denmark, and South Africa. Among the registered participants, 180 were Faculty, 67 were research Scholars, 31 were PG students, 9 registrations were from Industry, 5 were scientists and the remaining registration were UG students. Participants affiliated from premium institutes like Queensland University of Technology, University of Johannesburg, IIT Bombay, IIT Roorkee, NIT Raipur, NIT Srinagar, IIT Allahabad, DTU, and NSUT Delhi had registered in the workshop. Some participants were from companies like Bharti Airtel, Philips Health Care, HFCL Limited, etc.

In the workshop to clarify the fundamentals, we had 4 lectures on the fundamentals of image processing and deep learning along with 4 hands-on sessions. We also had 5 lectures on research topics that helped the participants to implement the concepts of image processing and deep learning in their area of interest. All the hands-on sessions were conducted on Google Colab platform.

Feedback was collected from the participants after every session of the workshop. At the end of the workshop 118 participants with more than 80% attendance were given the

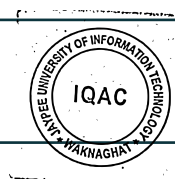


e-Certificates. e-Certificate were also given to our keynote speakers as a token of appreciation.

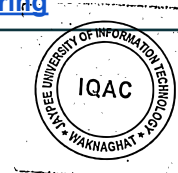
Dr. Nishant Jain, Assistant Professors in ECE, JUIT ; Dr. Emjee Puthooran, Assistant Professors in ECE, JUIT and Dr. Vipul Kumar Sharma, Assistant Professors in CSE/IT, JUIT were the coordinators for this workshop.

Schedule and weblinks of the Recordings and Materials (speakers allowed to share) of all the lectures and hands-on sessions conducted in the Workshop on Image Processing with Deep Learning 2022 is as follows:

Schedule			Recorded Lecture and Supported Files
Day 1 22nd March (Tuesday)	10:30 - 11:00	Inauguration	
	11:00 - 12:00	Lecture: Introduction to Image Processing and its Applications Keynote Speaker: Dr. Nishant Jain, Assistant Professor, Department of ECE, JUIT	https://youtu.be/Ekfzeta3T8I
	12:00 -13:00	Lecture: Deep Learning for Computer Vision Keynote Speaker: Dr. Subrahmanyam Murala, Associate Professor, Electrical Engineering Department, IIT Ropar	https://drive.google.com/file/d/1cOQhN5iUSgfH2Qa8vdHkNg1bzYriQ14g/view?usp=sharing
	13:00	Lunch	
	14:30 -16:30	Hands-on Session: Implementation of Image Processing using Python. Expert: Dr. Nishant Jain, Assistant Professor, Department of ECE, JUIT	https://youtu.be/7TxUQXD7w3w https://github.com/nishantjain86/Image-Processing
Day 2 23rd March (Wednesday)	10:15 -11:15	Lecture: Feature Extraction Methods for the classification of images. Keynote Speaker: Dr. Nishant Jain, Assistant Professor, Department of ECE, JUIT	https://youtu.be/wYZzpE1pPn0
	11:15 - 11:30	Tea Break	
	11:30 -12:30	Lecture: Application of Deep Learning Networks on Medical Images. Keynote Speaker: Dr. Narendra D. Londhe, Associate Professor, Electrical Engineering Department, NIT Raipur	https://drive.google.com/file/d/1tMgQNZehhXfzvYlqvM8Rnc3_THJ1OZPx/view?usp=sharing
	12:30 - 14:00	Lunch	



	14:00 -16:00	Hands-on Session: Feature Extraction methods and training of Neural Network using Python. Expert: Dr. Nishant Jain, Assistant Professor, Department of ECE, JUIT	https://youtu.be/wlEaHjqiflA https://github.com/nishantjain86/Image-Processing
Day 3 24th March (Thursday)	10:15 -11:15	Lecture: Feature Extraction and Classification of Liver Ultrasound Images Keynote Speaker: Dr. Jitendra Virmani, Senior Technical Officer, Indo-Swiss Training Centre (ISTC), CSIR-CSIO	https://drive.google.com/file/d/1jA2lfsj0usLGdK3jwWIFf9ppOE9goX3S/view?usp=sharing
	11:15 - 11:30	Tea Break	
	11:30 -12:30	Lecture: Image Compression using Machine Learning Keynote Speaker: Dr. Emjee Puthooran, Assistant Professor, Department of ECE, JUIT	https://drive.google.com/file/d/1jA2lfsj0usLGdK3jwWIFf9ppOE9goX3S/view?usp=sharing
	12:30 - 14:00	Lunch	
	14:00 -16:00	Hands-on Session: Implementation of Machine Learning Algorithms using Python Expert: Dr. Vikas Baghel, Assistant Professor, Department of ECE, JUIT	https://drive.google.com/file/d/16hElzB_VyaWgBGPBYqo_vAYCfm-rlfk/view?usp=sharing Task1: https://colab.research.google.com/drive/1ryes3HAqjhoXuHYhm1Z-CdN3oN3p7fEF?usp=sharing Task2: https://colab.research.google.com/drive/1h5ylt9cK6fDepo9XwE1NUToAIHNC0ons?usp=sharing Task3: https://colab.research.google.com/drive/1IKli0RZP1ZPtV9hP5Yct8kOZK1allmBg?usp=sharing
Day 4 25th March (Friday)	10:15 -11:15	Lecture: Introduction to Convolutional Neural Networks Keynote Speaker: Dr. Vipul Kumar Sharma, Assistant Professor, Department of CSE/IT, JUIT	https://drive.google.com/file/d/1G-w2KT1Ja2qX7DhbjH_SYdNrt4B26f2V/view?usp=sharing https://docs.google.com/presentation/d/1gtcTJQSf1eqSfrMmqPnrL5oQXiYPpFFi/edit?usp=sharing&oid=110182110977450671877&rtpof=true&sd=true
	11:15 - 11:30	Tea Break	
	11:30 -12:30	Lecture: Automatic Radiology Report Generation using Deep Learning Keynote Speaker: Dr. Chandresh Kumar Maurya,	https://drive.google.com/file/d/1G-w2KT1Ja2qX7DhbjH_SYdNrt4B26f2V/view?usp=sharing



		Assistant Professor, Computer Science & Engineering Department, IIT Indore	
	12:30 -13:15	Lecture: Application of AI and Image processing for Defence Systems Keynote Speaker: Dr. Anita Singh, Scientist 'E', IRDE, DRDO, Ministry of Defence, Govt. of India, Dehradun	https://drive.google.com/file/d/1awrOQ EzB_5eRG_LXy-G-fbwESyb1x2yZ/view?usp=sharing
	12:30 -14:00	Lunch	
	14:00 -18:00	Trip to Shimla	
Day 5 26th March (Saturday)	10:15 -12:30	Hands-on Session: Implementation of CNN using python along with Dimensionality reduction, and feature Engineering Expert: Dr. Vipul Kumar Sharma, Assistant Professor, Department of CSE/IT, JUIT	https://drive.google.com/file/d/1oA5_6d4wau1vAwHHLtFivblkbBRDeax5/view?usp=sharing https://drive.google.com/file/d/1mCcJZpOvaSep4wny3f8Z0qLN_4ZiPoeJ/view?usp=sharing https://drive.google.com/file/d/1ydE8MKqqHiyWvHDPsix4dRnc9eei8gXs/view?usp=sharing https://drive.google.com/file/d/1yhCOKUGHFe2Qcy8tPhuxCRT8NQGJWCHd/view?usp=sharing
	12:30 -14:00	Valedictory followed by Lunch	

GoogleMeet link for WS: x | My Drive - Google Drive | Nishant Jain_Speech - Go | Meet - yoj-grxh-ogx | Poster - Google Drive | +

meet.google.com/yoj-grxh-ogx?pli=1

google meet is presenting

WS Patrons and Coordinators.jpg

Open with +

Patrons: Jaypee University of Information Technology, Department of Computer Science & Engineering, Information Technology

Advisor: Prof. Anita Singh

Finance Chair: Prof. Anita Singh

Program Chair: Prof. Anita Singh

Coordinators: Prof. Anita Singh, Prof. Anita Singh, Prof. Anita Singh

People:

- Pranavathiyan G
- Prerna Gupta
- Priscilla Dinkar
- Prof SK
- Prof. (Dr.) Rajendra Kumar...
- R K
- Rajiv Kumar
- rakesh poonia
- Ratish Dhiman

10:37 | yoj-grxh-ogx

Type here to search

22°C Hasc 10:37 22-03-2022



GoogleMeet link for WS | My Drive - Google Drive | Nishant Jain_Speech - Go | Meet - yoj-grxh-ogx | Poster - Google Drive

meet.google.com/yoj-grxh-ogx?pli=1

REC google meet is presenting

Prof. (Dr.) Rajendra Kumar Sharma

10:53 | yoj-grxh-ogx

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22°C Haze 10:53 22-03-2022

Participants: google meet (...), Vivek Sehgal, google meet, Rajiv Kumar, Ashok Kistwal, ankita gupta, 120 others, You

GoogleMeet link for WS | My Drive - Google Drive | Nishant Jain_Speech - Go | Meet - yoj-grxh-ogx | Poster - Google Drive

meet.google.com/yoj-grxh-ogx?pli=1

google meet is presenting

You

10:37 | yoj-grxh-ogx

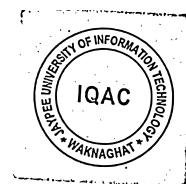
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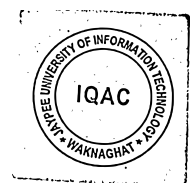
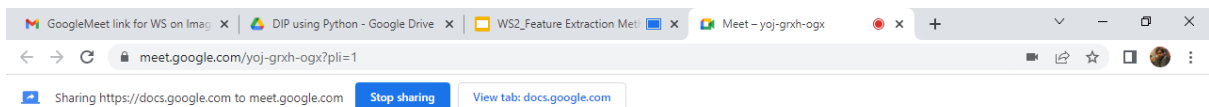
22°C Haze 10:37 22-03-2022

People

- Pranavathiyani G
- Prerna Gupta
- Priscilla Dinkar
- Prof SK
- Prof. (Dr.) Rajendra Kumar...
- Prof. (Dr.) Rajendra Kumar...
- R K
- Rajiv Kumar
- rakesh.poonia

Participants: Prof. (Dr.) Rajendr..., Prof SK, Vivek Sehgal, google meet ..., 106 others





Updated Feedback x DIP using Python x DIP_Tutorial_1.ipynb x DIP_Tutorial_2 x Meet - yoj-grxh-ogx x Image-Processing/ x

meet.google.com/yoj-grxh-ogx?pli=1

Sharing <https://colab.research.google.com> to meet.google.com [Stop sharing](#) [View tab: colab.research.google.com](#)

REC You're presenting to everyone Presentation audio **Stop presenting**

DIP_Tutorial_2.ipynb

```

File Edit View Insert Runtime Tools Help All changes saved
+ Code + Text
# First argument: Input Image
# Second argument: center location of circle
# Third argument: Radius
# Fourth argument: Color
# Fifth Argument: Thickness of the ellipse. If -1 is passed, then color will be filled in the closed figures
cv.circle(img,(50,300), 20, (0,0,255), -1)
plt.imshow(img)

outplotlib.image.AxesImage at 0x7f80a9f0c0b0

```

Output: A plot showing a circle drawn on an image.

google meet

g

P

89 others

You

In-call messages

Messages can be seen only by people in the call and are deleted when the call ends.

You 14:09
<https://github.com/nishantjain86>

Geeta Diddigi 14:10
Yes sir, got the link

Richa Gupta 14:11
Thanks for providing github link.

Yimenu Yeshiwas 14:17
Thank you

Send a message to everyone

14:31 | yoj-grxh-ogx

Type here to search

27°C Sunny 14:31 23-03-2022

REC Vipul Sharma is presenting

Applications in Image Analysis

Image Analysis

- Object Detection
- Object Recognition
- Instance Segmentation

Herd 91%
 Sheep 82%
 Pasture 80%

Goats 73%
 Livestock 71%
 Herding 69%

Herder 62%
 Grass 59%
 Farm 50%

<https://cloud.google.com/vision/>
<http://silverpond.com.au/object>

google meet

g

P

A

S

vinita Mathur

Vipul Sharma

53 others

You

10:26 | yoj-grxh-ogx

Type here to search

23°C Sunny 10:26 25-03-2022



REC Vipul Sharma is presenting

Why Convolutions?

Edge Detection by Convolution

Input

Kernel

Output

10:48 | yoj-grxh-ogx

Type here to search

23°C Sunny

10:48 25-03-2022

Participants: google meet, Perna Gupta, Ashok Kistwal, Shiv Kumar Gupta, vinita Mathur, Vipul Sharma, 68 others, You

REC Vikas Baghel is presenting

Inbox - vikas.baghel@... | My Drive - Google | Meet - yoj-grxh-ogx | Task1.ipynb - Colab | Task2.ipynb - Colab | Task3.ipynb - Colab

colab.research.google.com/drive/1ryes3HAghosuiYhm1Z-CdN3oN3p7EF#scrollTo=B1gAu2FRAC0H

+ Code + Text

RAM Disk

Scikit-learn (sklearn) is used to build machine learning models.

<https://scikit-learn.org/stable/>

Iris Flower Classification

+ Code + Text

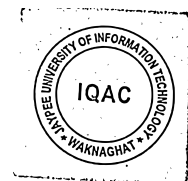
0s completed at 1:42 PM

Type here to search

2:05 PM | yoj-grxh-ogx

Participants: Vikas Baghel, google meet, Shiv Kumar Gupta, Perna Gupta, Yimenu Yeshiwas, P.K.POONGUZH..., charan jeet, 59 others, You, Richa Gupta, Yes sir

14:05 24-03-2022



Jaypee University of Information Technology
Department of Electronics & Communication Engineering



Workshop on
Image Processing with Deep Learning
(22nd - 26th March 2022)



Keynote Speaker

*Title: Implementation of Machine Learning
Algorithms using Python*



Dr. Vikas Baghel
Assistant Professor
Department of ECE, JUIT

Date: 24th March, 2022, Time: 14:00 - 16:00 IST
Medium: GoogleMeet

