

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), Wagnaghat from 20th to 24th July 2020.

The program was successfully completed under the auspices of

- Prof. Vinod Kumar – Vice Chancellor of JUIT Wagnaghat and Patron of the organized CEP by Civil Engineering Department.
- Prof. SamirDev Gupta – Director and 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 CEP by Civil Engineering Department.
- Dr. Rajiv Ganguly – Associate Professor of Civil Engineering Department of JUIT Wagnaghat and Program Convener of organized CEP by Civil Engineering Department.
- Dr. Aakash Gupta – Assistant Professor of Civil Engineering Department of JUIT Wagnaghat and Program Convener of organized CEP by Civil Engineering Department
- Mr. Anirban Dhulia - Assistant Professor of Civil Engineering Department of JUIT Wagnaghat 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.

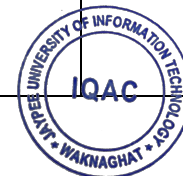
Table 2: Summary of participation Details in the CEP program 2020

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 Munjaj (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

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**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. Sandeep Kumar Panda

ICFAI University Hyderabad, India

Topic: Blockchain Technology and Applications using
Ethereum, Solidity



Dr. Rakesh Goyal

IK Gujral Punjab Technical University, Kapurthala, India

Topic: Blended Learning with Open Broadcaster Software



Dr. Mohit Saini

National Institute of Technology, Jalandhar, India

Topic: Cloud Computing and its Applications



Dr. Amritpal Singh

National Institute of Technology, Jalandhar, India

Topic: Probabilistic Data Structures



Dr. Vandana Bhatia.

Amity University, Noida, India

Topic: Big Data Analytics

Dr. Nisha Chaurasiya

National Institute of Technology, Jalandhar, India

Topic: Cloud Computing and Virtualisation



Dr. Prashant Kumar

National Institute of Technology, Jalandhar, India

Topic: Opportunistic Networking and Device to Device
Communication



Dr. Ashima Singh

Thapar Institute of Engineering & Technology, Patiala, India

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



Mr. Tushar Sharma

NVEST Bangalore, India

Topic: Blockchain Technology and Applications using Ethereum,
Solidity



Dr. Gautam Kumar

CMR Engineering College, Hyderabad, India

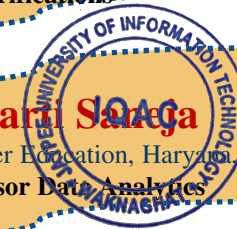
Topic: ECC and Non-Commutative Cryptography with Formal
Verifications



Dr. Bharti Saraga

Department of Higher Education, Haryana, India

Topic: Sensor Data Analytics

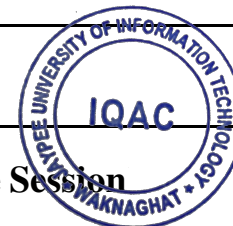


Inauguration Ceremony

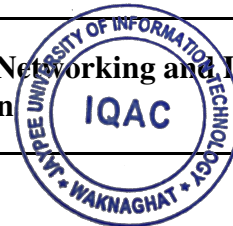
10:30 AM	Online Joining to FDP Link
11:00 AM	Speech by Prof. (Dr.) Vinod Kumar Vice Chancellor , Jaypee University of Information Technology, Wagnaghat, India
11:30 AM	Speech by Prof. (Dr.) Samir Dev Gupta, Dean of Academics , Jaypee University of Information Technology, Wagnaghat, India
12:00 PM	Summary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



Date	Timing	Speaker	Title
27th 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
28th 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
29th 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
30th 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
31st 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
1st 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
3rd 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
4th – 5th 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
6th 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
7th 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
8th 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.

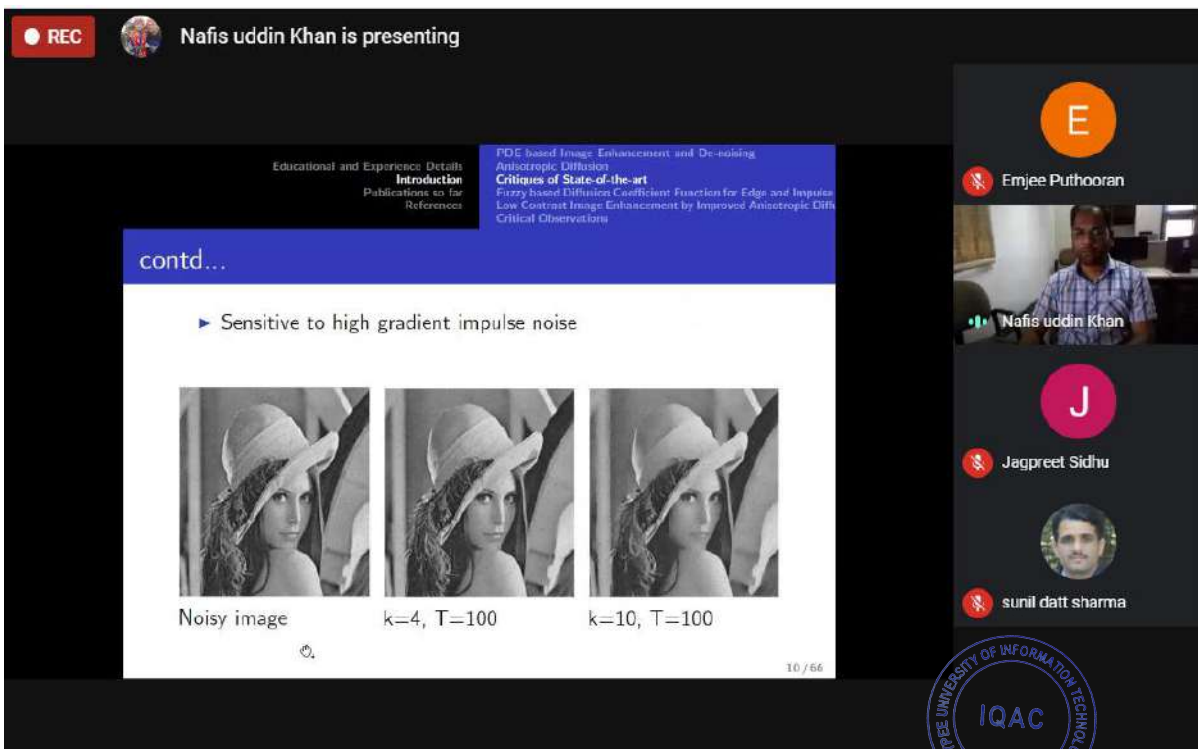
The program was inaugurated by honourable Vice –chancellor (**Prof. Vinod Kumar**) and Dean Research (**Prof. Samir Dev Gupta**). They highlighted the importance of computational techniques in signal processing and motivated the participants. More than 110 faculty members, research scholars from various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



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

REC N Nishant Jain is presenting

Class List

Wavelet 2-D Image Fusion : Truecolor image

Google Meet Attendance

Image 1

Image 2

Decomposition 1

Decomposition 2

FUSION

Synthesized Image

Discompose

Apply

Wavelet: db

Level: 3

Approx: max

Details: max

Apply

Image Fusion Tool

Image Label: None

Image Location: Variable

meet.google.com is sharing your screen

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2:56 PM 16/8/2020

Nafis uddin Khan

E

Emjee Puthooran

S

Surjeet Singh

Nishant Jain

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.

REC Dr. Shruti Jain is presenting

Class List

surjeet singh

amol vacudava

Google Meet Attendance

Transition.....

Machine Learning

Input → Feature extraction → Classification → Output (Car/Not Car)

Deep Learning

Input → Feature extraction + Classification → Output (Car/Not Car)

71

Dr. Shruti Jain

Deepnarayan Tripathi

Dr. Shruti Jain

M

Munish Sood

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IQAC

IQAC

WAKNAGHAT

200

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 slide also shows a grid of participant avatars with initials: H (Harsh Sohal), M, S, Y, J, V, a, p, D.

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: 7 pushpendra, 7 sunil datt sharma

Gene: Exon 1, Exon 2, Exon 3, Exon 4, Exon 5

RNA: 1, 2, 3, 4, 5

Alternative splicing

RNA: 1, 2, 3, 4, 5

Translation

Protein A, Protein B, Protein C

Participants: Kumutha D., sunil datt sharma, Jagpreet Sidhu, 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**.

Jyoti University of Information Technology, Wazirpur

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

jupyter 03.02-Understanding-the-k-NN-Algorithm-Copy1 (last checkpoint: an hour ago (autosaved))

```

In [18]: single_label = np.random.randint(0, 2)
single_label
Out[18]: 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.randn(*data_size)
    labels_size = (num_samples, 1)
    labels = np.random.randn(*labels_size)

    return train_data.astype(np.float32), labels

Let's put the function to local 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

Yugal Kumar

J

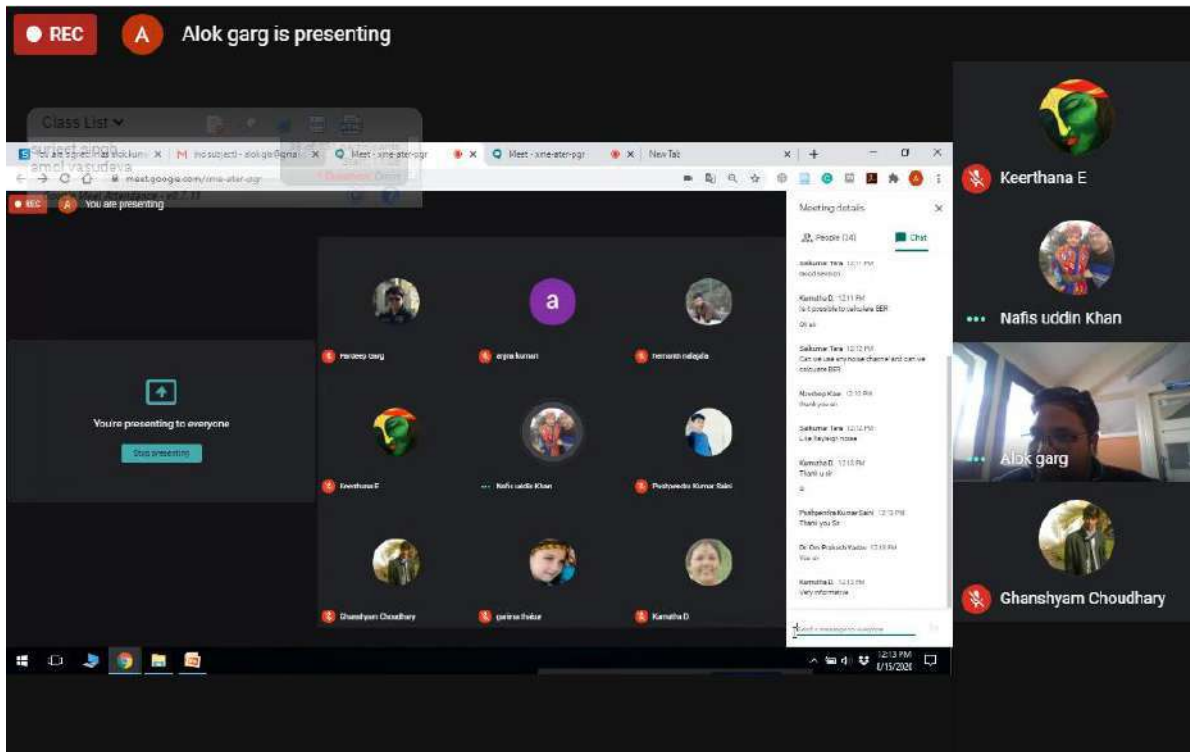
Jagpreet Sidhu

D

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.

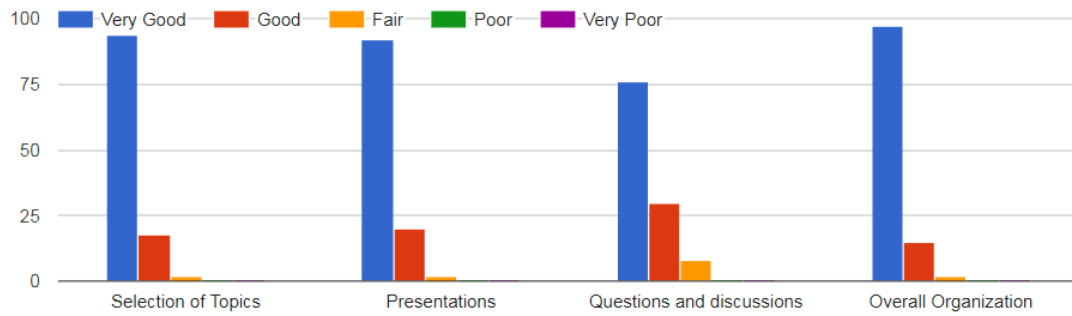
The short term course was concluded with valedictory function. The highlights of the course were given by **Dr. Vikas Baghel**. The valedictory speech was given by **Dr. Nafis U. Khan**. The vote of thanks was given by **Dr. Sunil Datt Sharma**. He highlighted the immense contribution of the Organizing 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.

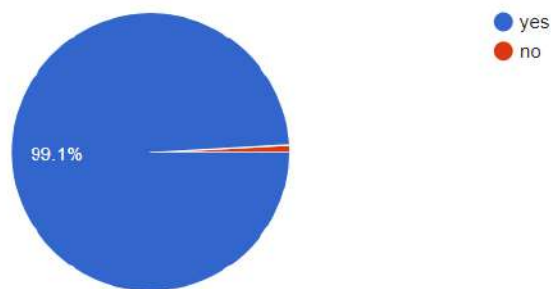


What is your rating of the following aspects of STC?



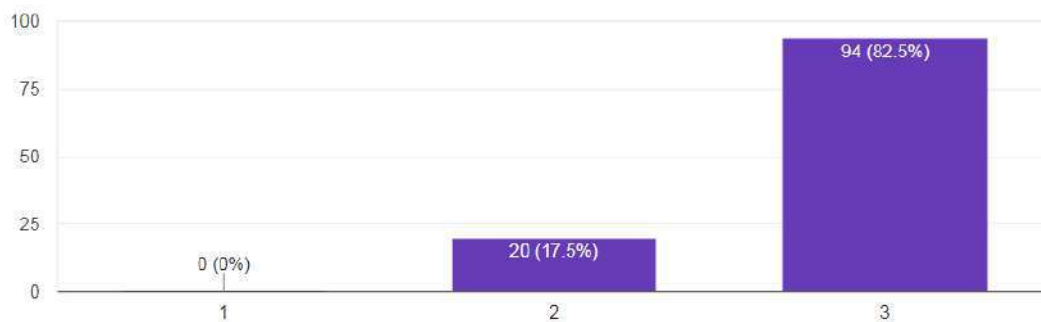
Did the STC meet your learning and research objectives?

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), Wagnaghat from 20th to 21st August 2020.

The program was successfully completed under the auspices of

- Prof. Vinod Kumar – Vice Chancellor of JUIT Wagnaghat and Patron of the organized Workshop by Civil Engineering Department.
- Prof. SamirDev Gupta – Director and 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. Rajiv Ganguly – Associate Professor of Civil Engineering Department of JUIT Wagnaghat and Program Convener of 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 Coordinator of organized Workshop by Civil Engineering Department

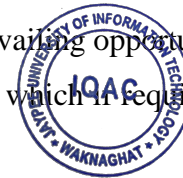
The Workshop on '*Waste Management – Issues and Concerns*' comprised mainly of invited and guest lecturers from eminent speakers of renowned institutes covering multifaceted aspects on progress, developments, legislations and existing drawbacks in Waste Management. Table 1 highlights the program schedule 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/Etosh 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 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 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.

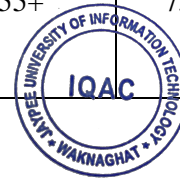
Table 2: Summary of participation Details in the Workshop 2020

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

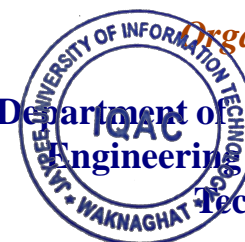
on

**“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 Puthoran	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	Mr. Pradeep Garg	CL-1
16		14:30 - 16:30	MATLAB		
17	09-Jan-21		Verilog HDL	Dr. Harsh Sohal	CL-1
		12:00 - 13:30			
18		14:00 - 16:30			



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	Date	Talk
<p>All are requested to fill the Google form and join what's up group for recent updates.</p> <p>Link: https://forms.gle/9fC1SbYcf3AV9RoB8</p> <p>Google meet link for the event is meet.google.com/vbu-cjek-wur</p> <p style="text-align: center;">3:00PM-4:00PM</p>	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. Mimi 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 Fakhri, Student Alliance LLP, Ministry of Commerce and Industry, Government of India, West Mumbai	Basic of IPR & Indian Patent Filing 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, Orissa, 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 FCE, 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

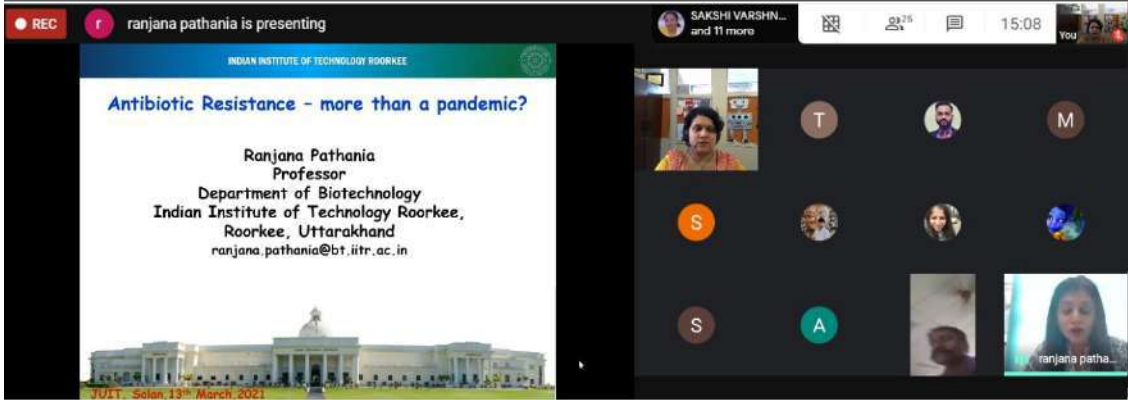
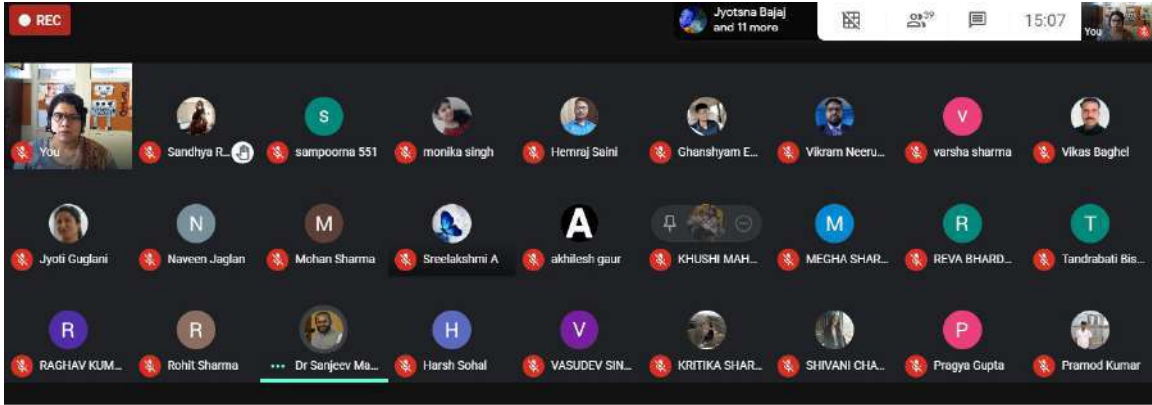
NATIONAL RESEARCH DEVELOPMENT CORPORATION
 20-22, Zamroodpur Community Centre,
 Kalash Colony Extension, New Delhi
 Delhi - 110048

Pramod Kumar and 26 more

15:08

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





REC Awab Fakhri is presenting

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

Entity Type	Filing Method	Fee
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 filing Patent

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

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-paraphenylene terephthalamide, 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.

Participants: You, Triambica Gaudam, 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, T, M, J, S, R, A, S, S, S, S, S

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, Wagnaghat, 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	Let's go



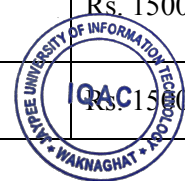
		Waknaghat, Solan(H.P)		
10	Anmol Sharma	B.Tech IT Engg, Jaypee University of Information Technology, Waknaghat, Solan(H.P)	Himachal Pradesh	Nomad Maps
11	Nayanika Sharma, Pranjal Bhatia, Rahul Shrivastava	Deptt of Biotechnology & Bioinformatics, Jaypee University of Information Technology, Waknaghat, 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	Kattankulath ur	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.





Fwd: Tech Interaction with JUIT Solan for G Suite Implementation

3 messages

Rajinder Sandhu <rajinder.sandhu@juitsolan.in> 6 August 2020 at 17:03
To: Nishant Jain <nishant.jain@juitsolan.in>, Narendra Kumar <narendra.kumar@juitsolan.in>, Saurabh Srivastava <saurabh.srivastava@juitsolan.in>, Vineet Sharma <vineet.sharma@juitsolan.in>, anupriya.kaur@juit.ac.in, Niraj Singh Parihar <nirajsingh.parihar@juitsolan.in>
Cc: Sunil Kumar Khah <sunil.khah@juitsolan.in>

Please find the Link for tomorrow training

Tech Interaction with JUIT Solan for G Suite Implementation

When Fri 7 Aug 2020 11:30am – 12:30pm India Standard Time - Kolkata

Joining info Join with Google Meet
meet.google.com/pvc-zhxg-znb

Join by phone
(US) +1 423-781-1274 (PIN: 719892238)

Who • admin@juitsolan.in - organiser

Rajinder Sandhu <rajinder.sandhu@juitsolan.in> 7 August 2020 at 14:56
To: admin@juitsolan.in, sachin@marginfotech.com
Cc: gsuite_core@juitsolan.in, Sunil Kumar Khah <sunil.khah@juitsolan.in>

Dear Sachin

It was a wonderful session and I think the stream option will be beneficial for us a lot. Rest we have covered I think most of the things on our end. Also, thanks for sharing links for resources which we can use. Please share the recording of the session.

The following points need to be addressed:

1. To add my name in the CSE faculty group.
2. We will try to use **Google Attendance with Google Stream also.**
3. Multi-device login was successful, but we will further try to practice it.
4. You need to set settings that students should not be able to start google meetings without the faculty. Also, as you mentioned, faculty will leave last from the meet and make sure everyone logs out of the class.
5. You will look for some resources which can be used to teach mathematics.

Everyone, if you have any further questions, please let me know.

Regards
Dr. Rajinder Sandhu

On Thu, 6 Aug 2020 at 17:00, <admin@juitsolan.in> wrote:

Please find the Link for tomorrow

Tech Interaction with JUIT Solan for G Suite Implementation

[Quoted text hidden]

--
Regards
Dr. Rajinder Sandhu
Assistant Professor
CSE/IT

--
You received this message because you are subscribed to the Google Groups "gsuite_core" group.
To unsubscribe from this group and stop receiving emails from it, send an email to gsuite_core+unsubscribe@juitsolan.in.
To view this discussion on the web visit https://groups.google.com/a/juitsolan.in/d/msgid/gsuite_core/CAN%3DJEv%3DOPLMRr4_dCS2oft0qee3SCowrm%2BTMz_SkKvSHS8uVQ%40mail.gmail.com.
For more options, visit <https://groups.google.com/a/juitsolan.in/d/optout>.

Saurabh Bansal <saurabh.bansal@juitsolan.in>
To: Nishant Jain <nishant.jain@juitsolan.in>

With regards,

Saurabh Bansal, Ph.D.
Associate Professor,



Faculty In-Charge, JUIT Alumni Cell
Member, IQAC, Board of Studies
Dept. Biotechnology & Bioinformatics
Jaypee University of Information Technology

Waknaghat-173234

Solan, Himachal Pradesh, India

<https://www.juit.ac.in/faculty.php?id=264&dep=bio&page=0>

91-1792-239222, 9882194150

ORCID ID: <https://orcid.org/0000-0002-0574-4063>

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=21740782200>

Google Scholar ID: <https://scholar.google.co.in/citations?user=u5VNU6sAAAAJ&hl=en&authuser=2>

Publons ID: <https://publons.com/researcher/2172440/saurabh-bansal/>

IRINS ID: JUIT (irins.org)

----- Forwarded message -----

From: **Sunil Kumar Khah** <sunil.khah@juitsolan.in>

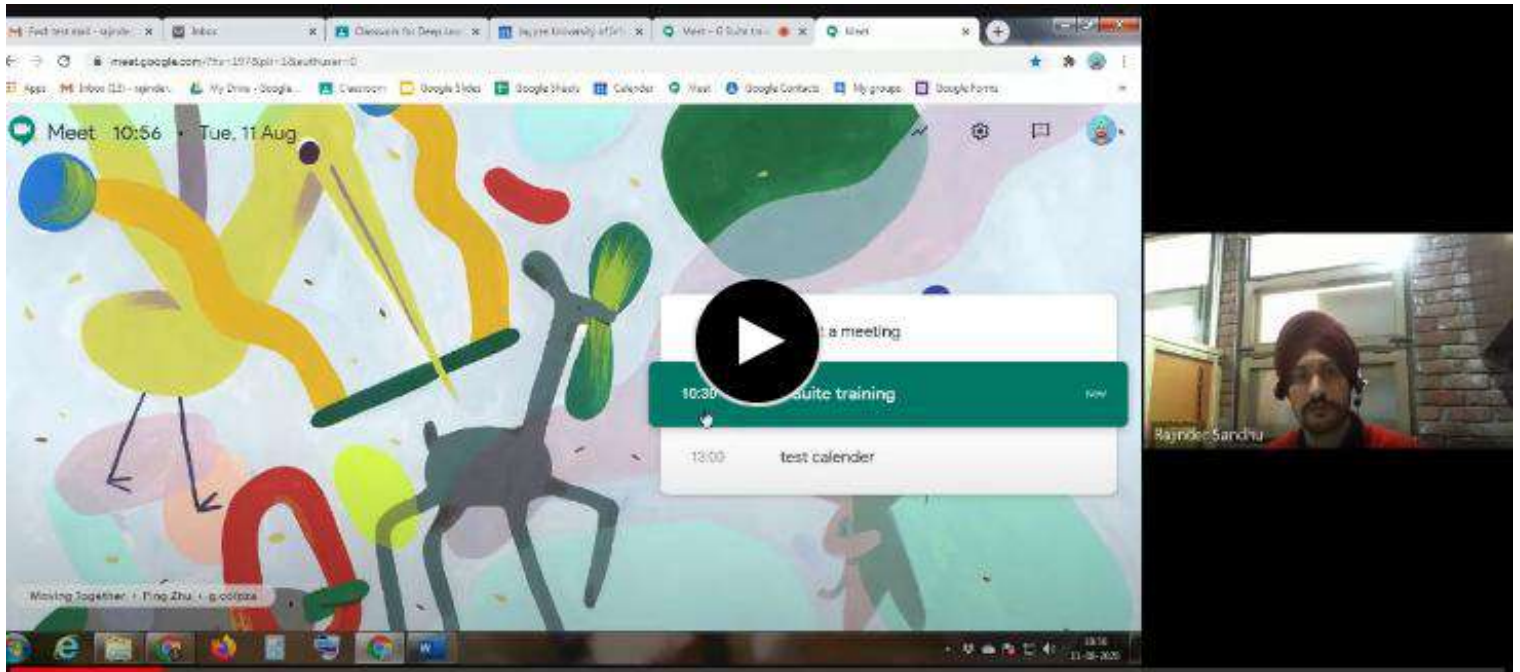
Date: Sat, 3 Jun 2023 at 18:01

Subject: Fwd: Tech Interaction with JUIT Solan for G Suite Implementation

To: Saurabh Bansal <saurabh.bansal@juitsolan.in>

[Quoted text hidden]





The image shows a Google Meet interface during a presentation. The main window displays a list of participants under the heading "G Suite train". The list includes names such as sakshi gupta, and kant, anirban dhulla, Chandrapal Gautam, dheeraj sharma, emjee puthoora, himanshu jadal, kavahat kumar, monika bharti jindal, naha udin Khan, neeraj singh panhar, neeru sharma, pardeep kumar, salman raju tellari, saurabh shivastava, saurav kumar, shweta pandit, vivek seligal, ashok k. gupta, rajinder sandhu, palok kumar, saurabh gawat, Garlapati vijay kumar, Jhendra vashist, salman raju tellari, and Praveen Modi. A status bar at the bottom indicates "meet.google.com is sharing your screen" with "Stop sharing" and "Hide" buttons. On the right, a video feed shows the presenter, Rajinder Sandhu, wearing a red turban and headset. The system tray at the bottom shows the time as 10:33 on 13-08-2021.





Nishant Jain <nishant.jain@juitsolan.in>

Intrraction with Mercer Mettle

2 messages

Sunil Kumar Khah <sunil.khah@juitsolan.in>

To: ALLFaculty <allfaculty@juitsolan.in>

Cc: Samirdev Gupta <samirdev.gupta@juit.ac.in>, vinod.kumar@juit.ac.in

18 May 2021 at 12:56

Dear ALL

Mercer Mettle will have an intraction with all faculty members regarding paper setting on Mettle platform tomorrow at 3.00 pm. (19-05-2021)

The link will be shared by today with you.

Before the training please go through this link

<https://support.mettl.com/portal/en/kb/induslynk-training-services-p-ltd/client1/examine>

Rgds

Sunil

Sunil Kumar Khah <sunil.khah@juitsolan.in>

To: ALLFaculty <allfaculty@juitsolan.in>

Cc: Samirdev Gupta <samirdev.gupta@juit.ac.in>, vinod.kumar@juit.ac.in

18 May 2021 at 20:18

Dear ALL

The intraction is shifted to 20-05-2021. The time will be same.

Regards

[Quoted text hidden]



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. Harmesh, Director, Embsoft 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 Pragma Maam	Dr. Shweta and Lt. Pragma Gupta
5	191038@juitsolan.in	Devansh Gupta	Feedback form collection and maintaining attendance sheet	Dr. Vikas
6	191004@juitsolan.in	Pragma Tiwari	Hosting all 10 Sessions with Shweta Maam and Pragma Maam	Dr. Shweta and Lt. Pragma 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	Prajwal 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. Pragma 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 finds 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 handon session 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:

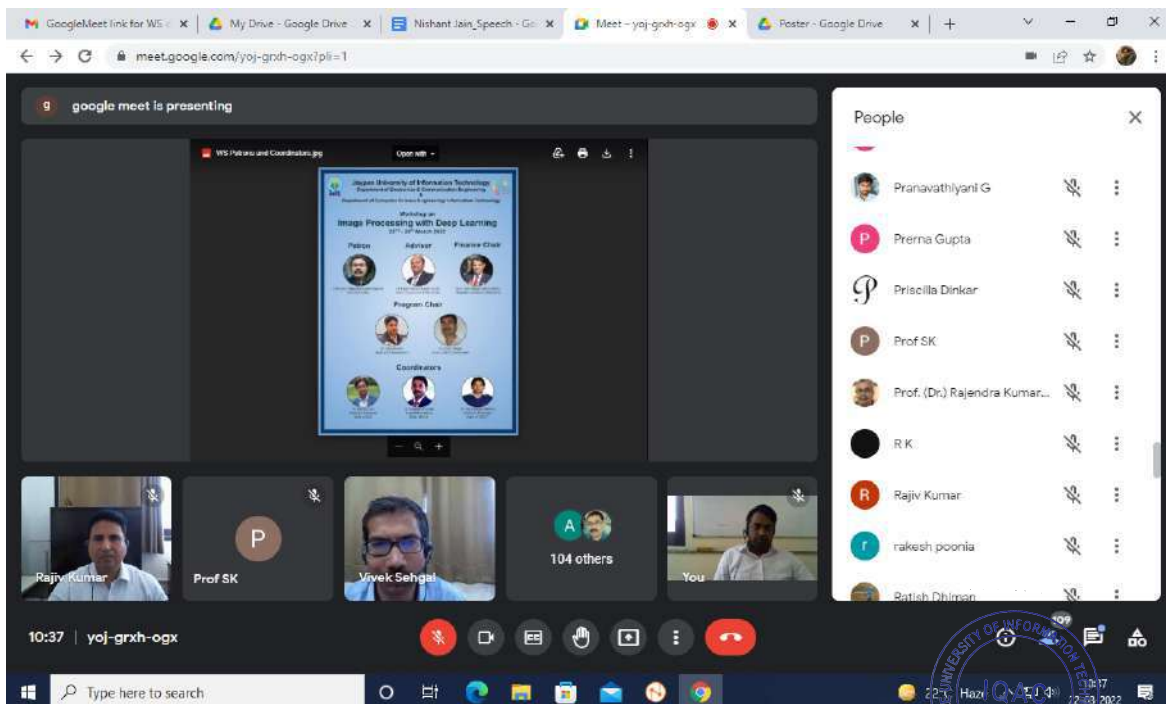
Schedule			Recorded Lecture and Supported Files
Day 1 22 nd March (Tuesday)	10:30 - 11:00	Inauguration	
	11:00 - 12:00	Lecture: Introduction to Image Processing and its Applications Keynote Speaker: Dr. Nishant Jain, Assistant Professor, Department of ECE, JUIT	https://youtu.be/Ekfzeta3T8I
	12:00 -13:0 0	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 -16:3 0	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 23 rd March (Wednesday)	10:15 -11:1 5	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 -12:3 0	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	

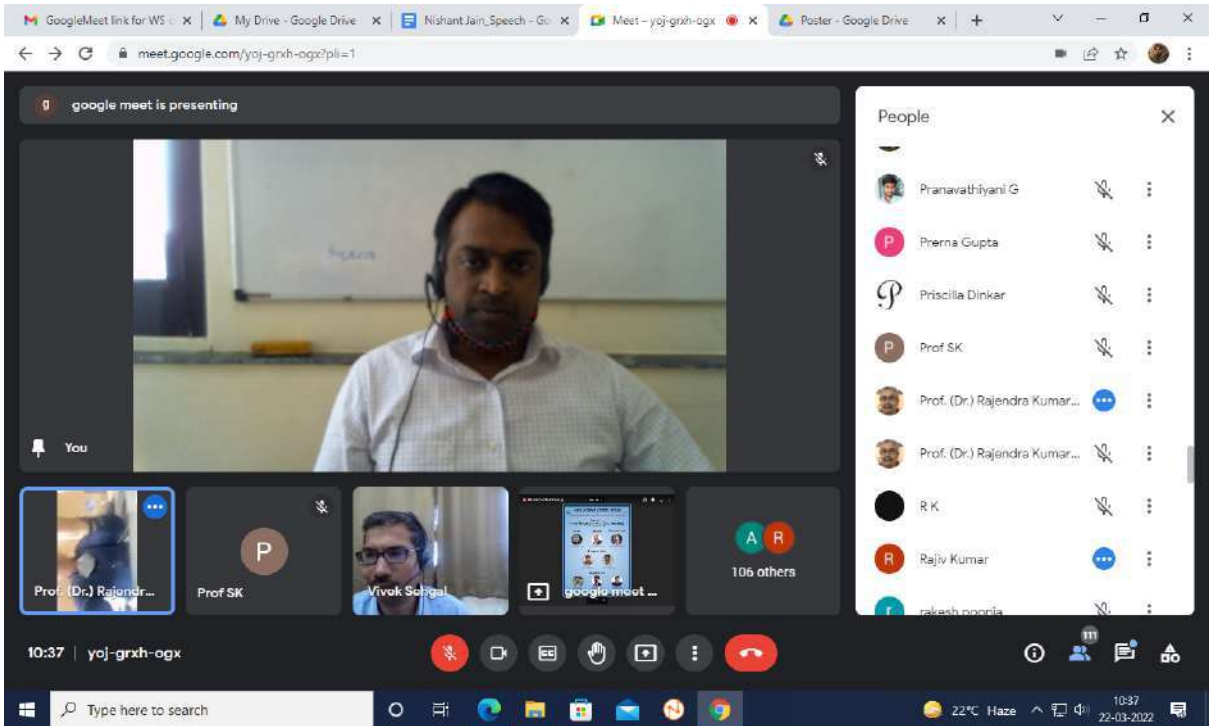


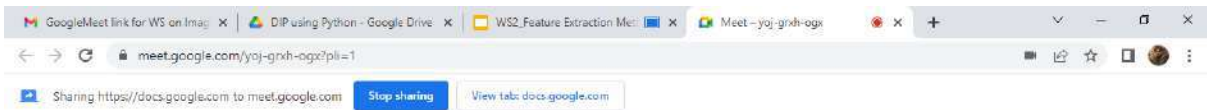
	14:00 -16:00	Hands-on Session: Feature Extraction methods and training of Neural Network using Python. Expert: Dr. Nishant Jain, Assistant Professor, Department of ECE, JUIT	https://youtu.be/wlEaHjqifIA https://github.com/nishantjain86/Image-Processing
Day 3 24th March (Thursday)	10:15 -11:15	Lecture: 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/1jA2lfsj0usLGdK3jwWlFf9ppOE9goX3S/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/1jA2lfsj0usLGdK3jwWlFf9ppOE9goX3S/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 6d4wau1vAwHHL EtivblkbBRDeax5/view?usp=sharing https://drive.google.com/file/d/1mCcJz pOvaSep4wny3f8Z0qLN_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	







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

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

Sharing <https://colabresearch.google.com> to meet.google.com

REC You're presenting to everyone Presentation audio Stop presenting

```

# First argument: Input Image
# Second argument: Color location of circle
# Third argument: Radius
# Fourth argument: Color
# Fifth Argument: Distance of the circle. If 3 is passed, then color will be filled in the circle.
cv.circle(img,(100,200),20,(0,0,255),-1)
plt.imshow(img)

```

google meet

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/nishantjain80>

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

Herd	91%	Goats	73%	Herder	50%
Sheep	82%	Livestock	62%	Grass	59%
Pasture	80%	Herding	69%	Farm	50%

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

google meet

Prerna Gupta

Ashok Kistwal

Shiv Kumar Gupta

vinita Mathur

Vipul Sharma

53 others

You

10:26 | yoj-grxh-ogx

Type here to search

23°C Sunny 10:26 23-03-2022



REC Vipul Sharma is presenting

Why Convolutions?

Edge Detection by Convolution

Input

Kernel

Output

filters out pix.
Sobel filter
Prewitt & Roberts

10:48 | yoj-grxh-ogx

Type here to search

23°C Sunny 10:10 25-03-2022

Participants: Vipul Sharma, Prerna Gupta, Ashok Kistwal, Shiv Kumar Gupta, vinita Mathur, 68 others, You.

REC Vikas Baghel is presenting

colab.research.google.com/drive/1yev3HkghouulYem1Z-CjNSG037EP#scrollTo=81gAulFEAD0P

+ Code + Text

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

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

Iris Flower Classification

completed at 1:42 PM

2:05 PM | yoj-grxh-ogx

Type here to search

14:05 24-03-2022

Participants: Vikas Baghel, Prerna Gupta, Yimenu Yeshiwias, P.K.POONGUZH..., charan jeet, 59 others, You, Richa Gupta (Yes sir).



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





Fw: Re: Moodle Implementation - BTBI

2 messages

saurobh.bansal@juit.ac.in <saurobh.bansal@juit.ac.in>
To: nishant.jain@juitsolan.in

4 June 2023 at 12:39

-----Forwarded by saurobh.bansal/Juit on 06/04/2023 12:39PM -----

To: all_faculty_bibt@juit.ac.in
From: raj.kumar/Juit
Date: 12/28/2021 11:14AM
Subject: Re: Moodle Implementation - BTBI

Gentle Reminder.

Dr. Raj Kumar, Ph.D.
Assistant Professor (Grade-I),
Department of Biotechnology and Bioinformatics, 2nd Floor, Vivekananda Bhawan,
Jaypee University of Information Technology, Waknaghat, Solan - 173 234
Himachal Pradesh, India Phone: 01792 - 239351-Extension:305, +917876254267

-----raj.kumar/Juit wrote: -----

To: all_faculty_bibt@juit.ac.in
From: raj.kumar/Juit
Date: 12/24/2021 12:50PM
Subject: Re: Moodle Implementation - BTBI

Dear All,

As per directions of our HoD Sir, I will conduct Second Demo for Moodle activity.

1. **Uploading class lecture material:** Completed on 20.11.2021
2. **Creating and evaluating Quizes:** Pending

The Second Demo is scheduled on coming **Tuesday, 28.12.2021 at 3:30PM.**

Google Link: <https://meet.google.com/yjd-scch-cxo>

Regrds,
Dr. Raj Kumar, Ph.D.
Assistant Professor (Grade-I),
Department of Biotechnology and Bioinformatics, 2nd Floor, Vivekananda Bhawan,
Jaypee University of Information Technology, Waknaghat, Solan - 173 234
Himachal Pradesh, India Phone: 01792 - 239351-Extension:305, +917876254267

-----raj.kumar/Juit wrote: -----

To: all_faculty_bibt@juit.ac.in
From: raj.kumar/Juit
Date: 11/22/2021 09:41AM
Subject: Re: Moodle Implementation - BTBI

Dear All,

Please find recorded session of Moodle Demo-1.

<https://drive.google.com/file/d/1y3kjlj7heE6To622i1shAvazWcpdqxC/view?usp=sharing>

Dr. Raj Kumar, Ph.D.
Assistant Professor (Grade-I),
Department of Biotechnology and Bioinformatics, 2nd Floor, Vivekananda Bhawan,
Jaypee University of Information Technology, Waknaghat, Solan - 173 234
Himachal Pradesh, India Phone: 01792 - 239351-Extension:305, +917876254267

-----raj.kumar/Juit wrote: -----

To: all_faculty_bibt@juit.ac.in
From: raj.kumar/Juit
Date: 11/17/2021 09:51AM
Subject: Re: Moodle Implementation - BTBI

Dear colleagues,

I hope that you have logged into your MOODLE account and changed your password.

As per directions of our HoD Sir, I will conduct two Demos for Moodle activities as follows:

1. **Uploading class lecture material.**
2. **Creating and evaluating Quizes.**

The first Demo is scheduled on coming **Saturday, 20.11.2021 at 3:30PM.**

Google Link: <https://meet.google.com/yjd-scch-cxo>

You may explore more using following useful links:
<https://www.youtube.com/watch?v=n3uitciAhjw>
https://docs.moodle.org/311/en/Working_with_files
<https://www.ispringsolutions.com/blog/getting-started-with-moodle>



Best Regards,
~~Raj

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Himachal Pradesh, India Phone: 01792 - 239351-Extension:305, +917876254267

-----raj.kumar/Juit wrote: -----

To: all_faculty_bibt@juit.ac.in
From: raj.kumar/Juit
Date: 10/18/2021 05:32PM
Subject: Moodle Implementation - BTBI

Dear all,

University ranking bodies such as NIRF specify upto 30% weightage for 'Teaching-learning & resources (TLR)'. A learning management system (LMS) comes under the category of TLR and forms integral part of a modern education system globally. Moodle is a free and open-source learning management system which can be customized by any Institution and uses local hardware and networking.

The committee:

Recently, a 'Moodle Implementation Committee' has been formed which is headed by the honorable vice chancellor (VC), Prof. (Dr.) Rajendra Kumar Sharma. This Committee includes faculty representatives from each department and the members of IT team. The Committee is dedicated for the complete implementation of Moodle at JUIT before the beginning of upcoming semester starting January, 2022. I, Dr. Raj Kumar, am representing the Department of Biotechnology & Bioinformatics (BTBI) and will monitor the progress of Moodle implementation in the department.

Implementation:

1. Moodle space has been created on the main JUIT website at the following link: <http://moodle.juit.ac.in:81/moodle/>
2. The IT team will create your account and share the Login details with you via email.
3. You must Login and change your password at the first Login itself.
4. You must share the details of your course including 'course name, course code, and batches' in the course with the IT team.
5. IT team will create respective cohorts for each subject into which you may upload the class materials.
6. Starting upload activity.

Activity:

1. Upload every class lecture material, e.g. PPTs, video lecture, important links, other e-resources containing related NPTEL lectures. This practice is similar to the activity we already are performing in 'Google Classroom'.

Useful links:

<https://www.youtube.com/watch?v=n3uitciAhjw>
https://docs.moodle.org/311/en/Working_with_files
<https://www.ispringsolutions.com/blog/getting-started-with-moodle>

2. Creating and starting class Tutorials and Quizes.

You must create quizzes in the respective courses only. Students must join the Moodle courseroom, perform the quiz and submit it there only (Similar practice as Google forms and Mettl).

Useful links:

https://docs.moodle.org/27/en/Building_Quiz
<https://www.ispringsolutions.com/blog/how-to-create-a-moodle-quiz>

Creating Simple Quizes:

https://www.youtube.com/watch?v=GqIECZJD4fE&ab_channel=Moodle
https://www.youtube.com/watch?v=CevOZV5Y9vg&ab_channel=KateHayden

Creating Quizes, different types of questions

https://www.youtube.com/watch?v=gCm-LBMJgdg&t=1359s&ab_channel=RussellStannard%28TeacherTrainingVideos%29
https://www.youtube.com/watch?v=ErgH6_G5Ofs&ab_channel=RussellStannard%28TeacherTrainingVideos%29

How To Import A Quiz From Word Document To Moodle

https://www.youtube.com/watch?v=iLPVsqJYjzk&t=514s&ab_channel=FacultyWorkshop

You may explore above links before the actual implementation.
For more information, you may contact me between 3-5pm on Mondays and Tuesdays.

Best Regards,
Dr. Raj Kumar

Dr. Raj Kumar, Ph.D.
Assistant Professor (Grade-I),
Department of Biotechnology and Bioinformatics, 2nd Floor, Vivekananda Bhawan,
Jaypee University of Information Technology, Waknaghat, Solan - 173 234
Himachal Pradesh, India Phone: 01792 - 239351-Extension:305, +917876254267

saurabh.bansal@juit.ac.in <saurabh.bansal@juit.ac.in>
To: nishant.jain@juitsolan.in



4 June 2023 at 12:41

-----Forwarded by saurabh.bansal/Juit on 06/04/2023 12:40PM -----

[Quoted text hidden]



Nishant Jain <nishant.jain@juitsolan.in>

Workshop on Moodle platform

1 message

Emjee Puthooran <emjee.puthooran@juitsolan.in>

26 October 2021 at 15:14

To: all_faculty_ece <all_faculty_ece@juitsolan.in>

Cc: Rajiv Kumar <rajiv.kumar@juitsolan.in>, Sunil Datt Sharma <sunildatt.sharma@juitsolan.in>

Dear Sir/ Madam,

As the University is planning to introduce Moodle, which is an open source learning management system (LMS) from next semester onwards, an online workshop is being organized on 28-10-2021 at 4:00 PM.

You are requested to make it convenient to attend the same.

Google meet link: <https://meet.google.com/skj-fzia-dky>

With Best Regards,
Dr. Emjee Puthooran
Assistant Professor (SG), ECE
JUIT Wagnaghat,
Ext: 243



[Reply](#) [Reply To All](#) [Forward](#) [More](#) [New](#)

FIRE SAFETY TRAINING DEMONSTRATION

registrar

Monday, June 06, 2022 09:26AM

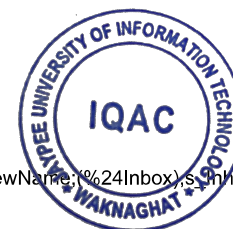
To: juit_all@juit.ac.in

[Show Details](#)

Dear All
Fire Safety Training demonstration will be conducted by JUIT Fire Consultant on 08 June 2022 at 1215 hours in the area of Mughal Garden. All Faculty and Staff are required to be kindly present for the same.

Regards
Major General Rakesh Bassi, SM (Retd)
Registrar and Dean of Students

Office 01792-239203
Mob 8626816777











Workshop Report on “Environment and Sustainability”

Dept. of Biotechnology, JIIT, Noida, and Dept. of Biotechnology and Bioinformatics, JUIT jointly organized a workshop on "Environment and Sustainability". The workshop was scheduled on June 9th, 2022, at Aryabhata Bhavan III (JIIT) and Board Room (JUIT). Dr. Garlapati Vijay Kumar served as the coordinator for the workshop for JUIT and Dr. Indira was coordinator from JIIT. The program was started with the welcome speech by Prof. S.C. Saxena (Pro-Chancellor, JIIT), followed by Prof. B.R. Mehta (Director, DIRD, JIIT), Prof. Pammi Gauba (HOD, BT, JIIT) and Prof. Sudhir Kumar (HOD, BT & BI, JUIT). After that, Prof. Sunil Khare (IIT Delhi) gave a technical speech on "Extremophiles in Biotechnology," followed by the technical sessions of Dr. Sudesh Kumar (CIAB, Mohali) on "Sustainable approaches in Agri-Food Sector" and Prof. S.K.Soni (Punjab University, Chandigarh) on "Recent Trends in Biofuel/Bioenergy". The afternoon session started with the research talks by Prof. S. Krishna Sundari (JIIT), Dr. A.Mathur (JIIT), Prof. Sudhir Kumar (JUIT), and Dr.Garlapati Vijay Kumar (JUIT) on the frontier sections on "Environment and Sustainability". The program was concluded with the discussion and outcomes by Prof. Pammi Gauba (HOD, BT, JIIT) and Prof. Sudhir Kumar (HOD, BT & BI, JUIT) for possible research collaborations between sister institutions (JUIT & JIIT). 50 participants, including Faculty Members (JUIT & JIIT), Research Scholars (JUIT & JIIT), M.Tech, B.Tech, and M.Sc. students have participated (Offline and Virtual modes) in this workshop.

The deliberations helped JIIT and JUIT faculty for near future collaborations in research ventures in the field of Environment and Sustainability.







DBT Sponsored Third One Week National Workshop on Statistical Techniques in Biological and Medical Sciences

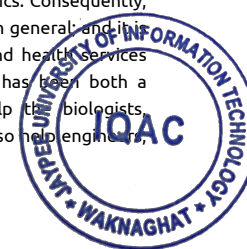
STBMS-2022

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

JUNE 17-23, 2022

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 life problems in biological and biomedical sciences. As a discipline designed to yield information, biostatistics may also be considered as a highly-developed stream which in turn forms part of the developing and expanding field of bioinformatics. Consequently, biostatistics draws quantitative methods from fields including statistics, operations research, economics, and mathematics in general and it is applied to research questions in fields such as public health (including epidemiology, nutrition, environmental health, and health services research), genomics, proteomics, population genetics, medicine, and ecology. Research in medicine and public health has been both a beneficiary of this new methodology and a source of new problems. It is anticipated that this workshop will help the biologists, biotechnologists, biomedical scientists and students from all these streams to gain insight into statistical analyses. It will also help engineers, mathematicians, statisticians, computer scientists to explore new dimensions for their academic and research activities.



OUR SPEAKERS



PROF. (DR.) AMAR NATH GILL

Professor
Department of Statistics
IIIT, Una, Himachal Pradesh



PROF. (DR.) SURESH SHARMA

Professor
Department of Statistics
Panjab University, Chandigarh



PROF. (DR.) NAVIN SINGH

Principal
Indian Military Academy, Dehradun, Uttarkhand

REGISTRATION FORM

CLICK HERE (<https://forms.gle/qNNdKBVKucRHmZuQ8>) to register and apply

CLICK HERE ([STBMS_2022_Brochure.pdf](#)) to download Information Brochure

APPLICATION PROCEDURE

Submit your registration after paying the fee. Send email for any query at: stbms2022@juitsolan.in Last date of submission of application is May, 31, 2022.



Registration fee includes all working lunches/tea during the program and registration kit along with study material. Accommodation on sharing basis in JUIT hostels will be facilitated subject to availability.

REGISTRATION FEES AND ACCOMODATION

Participants	Fee without accomodation (Upto JUNE 09, 2022)	Fee with accomodation (Upto JUNE 09, 2022)
Student(UG/PG)	2500/-	5000/-
Research Fellows (PhD/Post doc)	3000/-	5500/-
Faculty	5000/-	7500/-
Industry/Others	6000/-	8500/-

TOPICS TO BE COVERED

- * Descriptive and inferential Statistics
- * Correlation and Regression: Predictors Testing, MLR, Multicollinearity, Variance inflation factor (VIF), Logistic regression
- * Cohort Case-control and Cross-sectional epidemiological studies
- * Hypothesis Testing- Parametric and Non- Parametric
- * Factor, Cluster and Principal Component Analysis (PCA)
- * Survival analysis and Stochastic Modelling
- * Clinical trial and dose response studies
- * One-two and three way ANOVA, ANOVA with repeated trials
- * CRD, RBD, LSD, IBD, BIBD, Factorial Designs
- * Multiple comparison procedures
- * Order Restricted Inference
- * Case Studies on Biological and Biomedical Data
- * Extensive exercise and learning on Excel, SPSS, and R

ORGANIZING COMMITTEE





CHIEF PATRON
 Prof. (Dr.) Rajendra Kumar Sharma
 Vice Chancellor
 JUIT



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



PATRON
 Prof. (Dr.) Ashok Kumar Gupta
 Dean (Academic & Research)
 JUIT



Program Chair
 Prof. (Dr.) Rakesh Kumar Bajaj
 Professor and Head
 Department of Mathematics
 JUIT



Program Chair
 Prof. (Dr.) Sudhir Kumar
 Professor and Head
 Department of Biotechnology and
 Bioinformatics
 JUIT



Coordinator
 Dr. Tiratha Raj Singh
 Associate Professor
 Department of Biotechnology and
 Bioinformatics
 JUIT



Coordinator
 Dr. Neel Kanth
 Assistant Professor (Senior Grade)
 Department of Mathematics
 JUIT



MODERATOR
 Dr. Ragini Raj Singh
 Associate Professor
 Department of Physics and
 Materials Science



**MODERATOR
 AND
 SPEAKER**
 Dr. Bhupendra
 Kumar Pathak



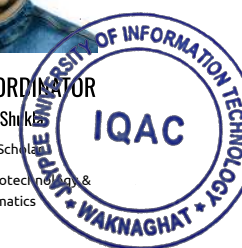
**MODERATOR
 AND
 SPEAKER**
 Dr. Saurabh
 Srivastava



**TECHNICAL
 SUPPORT**
 Mrs. Somlata
 Sharma
 Lab Technician



STUDENT COORDINATOR
 Mr. Rohit Shukla
 Research Scholar
 Department of Biotechnology &
 Bioinformatics



JUIT	Assistant Professor (Senior Grade) Department of Mathematics JUIT	Assistant Professor (Senior Grade) Department of Mathematics JUIT	Department of Biotechnology & Bioinformatics JUIT	JUIT
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VENUE

Jaypee University of Information Technology
Waknaghat, P.O. Waknaghat, Teh Kandaghat, Distt. Solan
(H.P.), India
PIN-173 234
Ph: +91 -1792-239344, +91- 1792 -239252
Fax -01792-245362

GET IN TOUCH

Contact Details

Dr. Tiratha Raj Singh - Mobile: +91 8091004695, Phone: 01792-239344
Dr. Neel Kanth - Mobile: +91 8894227228, Phone: 01792-239252

 Jaypee University of Information Technology
Waknaghat, P.O. Waknaghat, Teh Kandaghat, Distt. Solan
(H.P.), India
PIN-173 234



Fax: -01792-245362

Email: stbms2022@juitsolan.in



Site designed by Raj, Rohit and Siddhant, JUIT



Science and Engineering Research Board
(a statutory body of the Department of Science & Technology, Government of India)

5 & 5A, LGF,
Vasant Square Mall
Sector-B, Pocket-5,
Vasant Kunj,
New Delhi – 110 070

Brief report of the organized event

(Financial Assistance to Seminar / Symposia)

Date: 25-07-2022

SERB Sanction / File No: SSY/2022/000176

1. **Name of Academic Institution / University / Society etc. under whose auspices the Seminar / Conference / Workshop / Symposium etc. was organized:**
Jaypee University of Information Technology, Wagnaghat, Solan-173234, HP
2. **Title of the Seminar / Conference / Workshop / Symposium etc.:**
Statistical Techniques in Biological and Medical Sciences (STBMS-2022)
3. **Duration / Period of the organized event: June 17-23, 2022**
4. **Grant Sanctioned: Rs. 50,000/-**
5. **Summary of the event (Max. 1000 Words):**

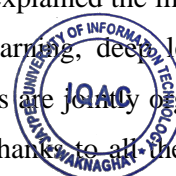
STBMS 2022

Day 1 Inauguration Report (17/06/2022)

Prof. Dr. Rajendra Kumar Sharma (Vice-Chancellor, JUIT), Maj Gen Rakesh Bassi (Retd.) (Registrar and Dean of Students), Prof. Ashok Kumar Gupta, Dean (Academics & Research) and Prof. Suresh Sharma (Guest of Honor) were the dignitaries in the workshop. Participants from various parts of the country joined the workshop which includes H.P, Punjab, U.P., Delhi and NCR, Jammu and Kashmir and Gujarat. Dr. Tiratha Raj Singh (Coordinator: STBM) mentioned the journey of the STBMS and CEHTI. Announcement of the grants received: from the Department of Biotechnology (DBT) and the Department of Science and Engineering (DST) to organize this workshop and mention of successful organization of STBMS 2016 and STBMS 2018 was there. Legacy of STBMS is now very well spread across the country.

Prof. Sudhir Kumar (HoD and Program Chair) introduced the Department of Biotechnology and Bioinformatics. Prof. Rakesh Kumar Bajaj (HoD and Program Chair) speak about the Department of Mathematics. Prof. Ashok Kr. Gupta discussed the importance of statistics. Maj Gen Rakesh Bassi (Retd.) speak about the JUIT academic and administrative process. Prof. Suresh Sharma (Guest of Honor) speaks about the statistics. He mentioned that statistics is the backbone of any field. It is widely used in various sectors and encouraged participants for interactive sessions.

Prof. Dr. Rajendra Kumar Sharma (VC) had spoken about the workshop and explained the importance of statistics and its interaction with emerging techniques such as machine learning, deep learning and artificial intelligence. He cherished this good initiative where two departments are jointly organizing the workshop. Lastly, Dr. Neel Kanth (Coordinator: STBMS) gave the vote of thanks to all the dignitaries and participants.



Day 1: Lectures and Lab (Prof. Suresh K. Sharma) (17/06/2022)

Prof. Suresh K. Sharma, PU, Chandigarh described the mean, median, mode, standard deviation, categorical variable and continuous variable, Kurtosis, skewness of the data etc. Assignment to all the participants on the IBM® SPSS® software platform for statistical analysis, which includes a vast library of machine learning algorithms, text analysis, open-source extensibility, integration with big data, and seamless deployment into applications were given with a clear and attractive introduction to SPSS. Then all the participants performed various operations which they explored in the theory session.

Day 2: Lectures and Lab (Prof. Suresh K. Sharma) (18/06/2022)

Logistic Regression, MLR, Odds ratio, risk ratio, and ROC curve were discussed. Correlations and their types such as Karl person, Spearman's Rank, Multiple (R^2), Partial Correlation coefficients, Correlation ratio, and Non-linear correlations were discussed in detail along with the different types of scales and measures of association. Prof. Sharma described the Chi-square test etc. Then he described Nominal by nominal, Ordinal by ordinal, Nominal by ordinal, Nominal by interval, etc. Basic regression concept was described for example if the data has multi-collinearly the Ridge regression can be applied. Multiple concepts related to logistic regression were discussed. He has explained Cohort Case-control studies and Cross-sectional epidemiological studies. He demonstrated the True positives, True negatives, false positives, and false negatives. Then in a hands-on session with the data where he has shown different types of error calculations followed by the receiver operating curve construction.

Day-3: One Day Excursion to Shimla (19.06.2022)

After two days of rigorous learning, a visit to Shimla for all the participants was organized. The participants have visited the Indian Institute of Advanced Studies, Shimla, a historical and heritage building and popular Mall road and Ridge Maidan of Shimla. They were very excited to see this attractive place. After that, they did the tracking and reach the Jakhu Temple which is a historical temple related to the Hindu lord Hanumana with 108 feet high statue of Lord Hanumana.

Day 4: Lectures and Lab (Prof. Amar Nath Gill) (20.06.2022)

Prof. Gill has covered Correlation and association of attributes, Simple and multiple linear regressions, regression with dummy variables, and others. He also described the Principal Component analysis (PCA) and factor analysis. In the PCA, several examples were given. He calculated the PCA using SPSS and then participants practiced it. He has also shown how one can draw the screen plot using the SPSS. The participants calculated the PCA and did other analyses using SPSS and then the session ended.

Day 5: Lectures and Lab (Prof. Amar Nath Gill and Dr. Tiratha Raj Singh) (21.06.2022)

Prof. Gill covered idea of multiple comparison procedures and pair-wise comparison and comparison with test & control and described proper ways to use these techniques. Prof. Gill covered Ranking and Selection Problems and Order restricted comparison procedures in great detail. He also mentioned that these techniques have several applications in life sciences as well as biomedical data analysis. Since the



processes exhibit randomness and are generally quite complex, the processes need to be simulated to gather information about them.

Dr. Tiratha Raj Singh introduced R programming language to the participants. The participants installed the R and R studio software and practice the R exercise. The lab session has been assisted by Mr. Rohit Shukla. The students solved the exercise and enjoyed the R learning.

Day 6: Lectures and Lab (22.06.2022)

Dr. Tiratha Raj Singh introduced bioinformatics in a very interactive lecture. He has introduced the central dogma of bioinformatics and importance of bioinformatics. Nowadays bioinformatics is a major field to solve biological problems. He has described the systems biology approach, genomics analysis using microarray analysis, structural bioinformatics approach, and others approaches to solve problems in biology.

Dr. Bhupendra Kumar Pathak covered various aspects of statistics such as Probability and Distribution: Random variables, probability mass functions, probability density functions, Binomial, Poisson's, and Normal distributions in good detail. The next session was taken by Dr. Saurabh Shrivastava who covered various tests such as Parametric tests Z, t, F, and Chi-square tests. The hands on lab session by Dr. Bhupendra Kumar Pathak covered various excel techniques to the students to apply statistics.

Day 7: Lectures and Lab (23.06.2022)

The session by **Dr. Saurabh Shrivastava** covered Non-parametric tests, Sign test, Wilcoxon rank-sum test, Kruskal-Wallis test, Friedman test, and Run test followed by the lab session to implement all these techniques.

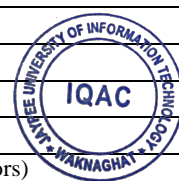
Valedictory Function

Prof. Dr. Rajendra Kumar Sharma (Vice-Chancellor) felicitated organizing team which includes Dr. Tiratha Raj Singh, Dr. Neelkantha, Dr. Ragini Raj Singh, etc. Then Hon. VC sir addressed the participants and encouraged them to invent new ideas and suggested to work on them. Certificates were distributed to the external and internal participants by the VC and Dean of JUIT. The appreciation certificates were distributed by the registrar, JUIT to the organizing team.

(Convener Signature)

Participation Information:

S. No	Participation in the event	Nos.
I.	Key-note speakers	5
II.	Senior Scientist	8
III.	Young Scientist	10
IV.	Postgraduate Students	12
V.	Undergraduate Students	2
VI.	Industry persons	-
VII.	Other category (Please specify each category)	5 (Doctors)



Photographs Section: Please paste high resolution photographs in given spaces below or may be submitted directly on online / email in JPEG format.

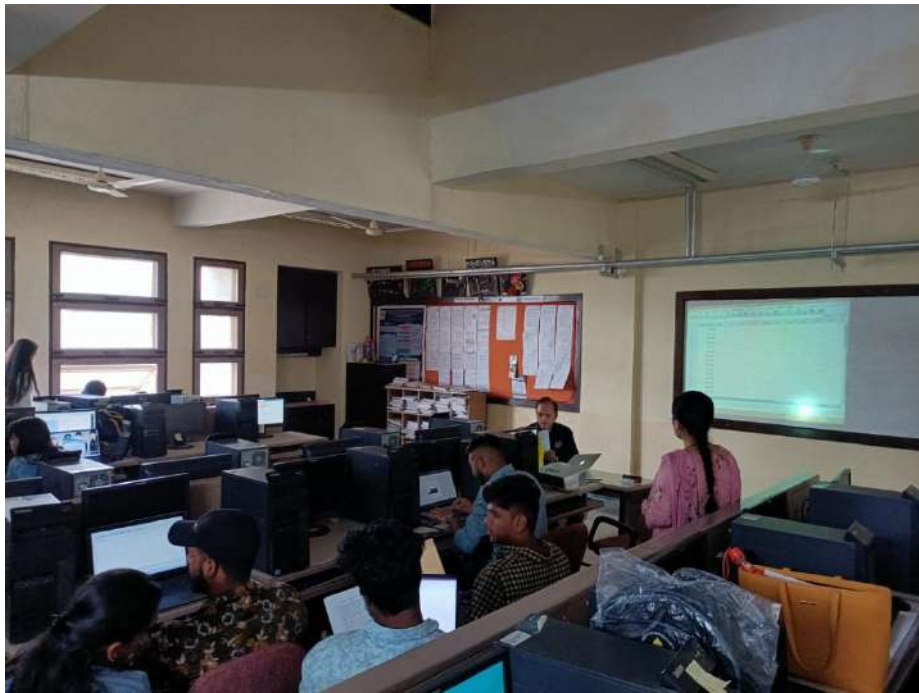
1. Inaugural Session



2. General Photograph



3. General Photograph



4. General Photograph



(Convener Signature)