

**One Week Online Workshop on
“Sustainable Construction Practices for Civil Engineers”
03rd-08th August 2020**

A one week online workshop on “Sustainable Construction Practices for Civil Engineers” was organized by the department of Civil Engineering of Jaypee University of Information Technology (JUIT), Waknaghat from 03rd-08th August 2020.

The program was successfully completed under the auspices of

- Prof. Vinod Kumar – Vice Chancellor of JUIT Waknaghat and Patron of the organized CEP by Civil Engineering Department.
- Prof. Samir Dev Gupta – Director and Dean of Academics of JUIT Waknaghat
- Major General Rakesh Bassi (Retd.) - Registrar and Dean of Students of JUIT Waknaghat
- Prof. Ashok Kumar Gupta – HOD of Civil Engineering Department of JUIT Waknaghat and Program Chair of the organized CEP by Civil Engineering Department.
- Dr. Amardeep – Assistant Professor of Civil Engineering Department of JUIT Waknaghat and Program Convener.
- Dr. Tanmay Gupta - Assistant Professor of Civil Engineering Department of JUIT Waknaghat and Program Convener.
- Dr. Aakash Gupta – Assistant Professor of Civil Engineering Department of JUIT Waknaghat and Program Convener.

One week online workshop on “Sustainable Construction Practices for Civil Engineers” was focused on the sustainable utilization of different waste materials for construction purposes. In order to discuss regarding the same, various faculty members (Expert in their field) from Department of Civil Engineering of Jaypee University of Information Technology Waknaghat were invited. Table 1 highlights the program schedule of the conducted one week online workshop including the names along with the title of lectures (talks) delivered by them.

This one week online workshop was conducted mainly to generate awareness amongst the Field Engineers (i.e. Assistant and Junior Engineers), research scholars and academicians regarding the utilization of waste materials in construction purposes in order to create a sustainable environment i.e. buildings, highway construction etc. Beside this, this workshop also highlighted the different practices and the methodology used regarding the same across the world. The program started at 10 AM in the morning and continued till 2.00 PM in the afternoon with minimum of one lecture per day followed by live demonstration of several test in different labs. A detail summary of the topic discussed during the entire workshop is summarized in Table 1.

Table 1: Schedule and Details of Lecture presented by different speakers



03/08/20 First Day			
10:30-11:00AM	Inaugural Session		
11:00-12:00PM	Dr. Abhilash Shukla	Sustainable Construction Practices • Sustainable Concrete Construction	
12:00-02:00PM	Dr. Tanmay Gupta	Casting of Concrete Mix-Design Samples	Concrete Lab
04/08/20 Second Day			
10:00-11:00AM	Dr. Abhilash Shukla	Introduction to Sustainable Construction Materials	
11:00-12:00 PM	Dr. Abhilash Shukla	Ultra-High-Performance Concrete	
12:00-02:00PM	Dr. Tanmay Gupta	Lab testing upon Sustainable Construction Materials	Concrete Lab
05/08/20 Third Day			
10:00-11:00AM	Dr. Amardeep	Utilization of waste material in rigid pavements	
11:00-12:00 PM	Dr. Aakash Gupta	Use of RAP in construction of flexible pavement IRC 120:2015	
12:00-02:00PM	Dr. Aakash Gupta	Lab testing Reclaimed asphalt pavement	Transportation Lab
06/08/20 Fourth Day			
10:00-11:00AM	Dr. Saurabh Rawat	Reinforced Earth using Sustainable Construction Materials	
11:00-12:00 PM	Dr. Saurabh Rawat Mr. Pankaj	Pullout Testing for Reinforced earth	GeoTech Lab
12:00-02:00PM	Mr. Neeraj Singh Parihar	Soil Stabilization testing • Proctor Test • CBR Testing • Triaxial Test	GeoTech Lab
07/08/20 Fifth Day			
10:00-11:00AM	Mr. Neeraj Singh Parihar	Use of Industrial waste in Soil stabilization	
11:00-12:00PM	Mr. Neeraj Singh Parihar	Soil Stabilization testing continued	GeoTech Lab
12:00-02:00PM	Dr. Amardeep Dr. Aakash Gupta	Plastic Waste: Overview • Utilization of plastic in the field	
08/08/20 Sixth Day			
10:00-11:00AM	Dr. Tanmay Gupta	Concrete Sample Testing (Strength Assessment)	Concrete Lab
11:00-12:00 PM	Dr. Tanmay Gupta Dr. Amardeep Dr. Aakash Gupta	Feedback Session	
12:00-12:30PM	Prof. (Dr.) A. K. Gupta	Closing Ceremony	



The participation in the workshop was overwhelming with a large number of participants from outstation locations with some participants even joining from Jammu & Kashmir, Tamilnadu, Gujarat, Haryana and other such states. For this workshop, average ratings given by the participants were around 4.5 out of 5 and all the participants were happy with the content of the workshop as this was first of its kind workshop in which live demonstrations were there which helped them a lot to understand how things works. At last, we would like to thank the whole organizing team and the resource persons to make this workshop a big success for Department of Civil Engineering. We likewise need to express my gratitude toward Mr. Jaswinder, Mr. Amar Kumar and Mr. Rajesh Sahu for their consistent hard work during the entire workshop as it would not be conceivable to make it a major accomplishment without their magnanimous exertion. The overall summary of the participants and their feedback are as follows for your kind reference.

Other Salient Features

- Video Recording of all lectures by the speakers for the Workshop available with the organizing committee.
- Video Recording of live demonstration of various tests is 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

Summary of the Participants

Types of Participants	Total No. of Registered Participants
HPPWD Assistant and Junior Engineers	50
Other Participants	100

Feedback of the Participants

Types of Participants	Feedback Score (on the scale of 1-5 i.e. poor to excellent)
HPPWD Assistant and Junior Engineers (50)	Excellent (85%) Very Good (10%) Good (5%)
Other Participants (30)	Excellent (75%) Very Good (10%) Good (10%) Average (5%)

With Regards

Dr. Amardeep, Dr. Tanmay Gupta, Dr. Aakash Gupta
Program Coordinator

Department of Civil Engineering

Jaypee University of Information Technology, Waiknaghat



Few Published News Clippings

Divya Himachal

जेपी यूनिवर्सिटी में भू-तकनीक पर चर्चा

वाकनाघाट में ऑनलाइन मोड में सिविल इंजीनियरों के लिए कार्यशाला का आयोजन

दिव्य हिमाचल व्यूरो-सोलन

सिविल इंजीनियरिंग विभाग जेपी यूनिवर्सिटी ऑफ इन्फार्मेशन टेक्नोलॉजी, वाकनाघाट (एच.पी.) द्वारा ऑनलाइन मोड में सिविल इंजीनियरों के लिए सतत निर्माण प्रथाओं पर कार्यशाला आयोजित की गई थी। यह कार्यशाला एक सप्ताह तक चली। कार्यशाला का उद्घाटन जे.यू.आई.टी. के कुलपति प्रो. विनोद कुमार द्वारा किया गया और शनिवार को समापन समारोह आयोजित किया गया। कार्यक्रम के संयोजक डा. तन्मय गुप्ता, डा. अमरदीप और डा. आकाश गुप्ता ने उल्लेख किया कि कार्यशाला का आयोजन

ऑनलाइन मोड में हिमाचल प्रदेश लोक निर्माण विभाग के सरकारी अधिकारियों और जेपी सूचना प्रौद्योगिकी विश्वविद्यालय के बीच मजबूत संबंध स्थापित करने के उद्देश्य से किया गया। इस कार्यशाला में विद्युत्, भू-तकनीकी और कंक्रीट से जुड़े अवयवों की भौतिक, रासायनिक और माइक्रोस्ट्रक्चर विशेषताओं पर चर्चा की गई, ताकि कंक्रीट और कोलतार मिश्रण डिजाइन का सुरक्षित उपयोग किया जा सके। कार्यशाला में औद्योगिक कचरे से प्राप्त होने वाली निर्माण सामग्री के उपयोग पर विशेष जोर दिया गया था। प्रतिभागियों को परीक्षण और कोडल प्रावधानों का एक्सपोजर



देने के लिए लाइव लैबोरेटरी सेशन आयोजित किए गए थे। उपरोक्त कार्यशाला के लिए एच.पी.पी.डब्ल्यू.डी. से सहायक अभियंता और कनिष्ठ अभियंताओं और विभिन्न शैक्षणिक व्यक्तियों सहित 100 से अधिक प्रतिभागियों को पंजीकृत किया गया है। सिविल इंजीनियरिंग प्रमुख प्रो. अशोक कुमार गुप्ता ने कार्यशाला का समापन शनिवार को किया।

दिव्य हिमाचल

Sun, 09 August 2020

<https://epaper.divyahimachal.com/c/54093520>



Dainik Savera

JP विश्वविद्यालय ने PWD अधिकारियों के लिए करवाई ऑनलाइन कार्यशाला

नई दिल्ली, 11 अगस्त (सवेरा) : सिविल इंजीनियरिंग विभाग, जे.पी. यूनिवर्सिटी ऑफ इन्फार्मेशन टेक्नोलॉजी, वाकनाघाट (एच.पी.) द्वारा ऑनलाइन 'सिविल इंजीनियरों के लिए सतत निर्माण प्रथाओं' पर एक सप्ताह की कार्यशाला आयोजित की गई थी। कार्यशाला का उद्घाटन, जे.यू.आई.टी. के कुलपति प्रो. विनोद कुमार, द्वारा किया गया और शनिवार को समापन समारोह आयोजित किया गया। कार्यक्रम के संयोजक डा. तन्मय गुप्ता, डा. अमरदीप और डा. आकाश गुप्ता ने उल्लेख किया कि कार्यशाला

● कंक्रीट से जुड़े अवयवों की विशेषताओं पर की गई चर्चा

का आयोजन ऑनलाइन मोड में हिमाचल प्रदेश लोक निर्माण विभाग के सरकारी अधिकारियों और जे.पी. सूचना प्रौद्योगिकी विश्वविद्यालय के बीच मजबूत संबंध स्थापित करने के उद्देश्य से किया गया। कार्यशाला में भू-तकनीकी और कंक्रीट से जुड़े अवयवों की भौतिक, रासायनिक और माइक्रोस्ट्रक्चर विशेषताओं पर चर्चा की गई। कार्यशाला में औद्योगिक कचरे से प्राप्त होने वाली निर्माण

सामग्री के उपयोग पर विशेष जोर दिया गया। प्रतिभागियों को परीक्षण और कोडल प्रावधानों का एक्सपोजर देने के लिए लाइव लैबोरेटरी सेशन आयोजित किए गए। उपरोक्त कार्यशाला के लिए एच.पी. पी.डब्ल्यू.डी. से सहायक अभियंता और कनिष्ठ अभियंताओं और विभिन्न शैक्षणिक व्यक्तियों सहित 100 से अधिक प्रतिभागियों को पंजीकृत किया गया है। सिविल इंजीनियरिंग प्रमुख प्रो. अशोक कुमार गुप्ता ने कार्यशाला का समापन 8 अगस्त को किया।



One-week online workshop for PWD officers concludes

Excelsiur Correspondent

NEW DELHI, Aug 10: One-week workshop conducted by the Department of Civil Engineering, Jaypee University of Information

of Himachal Pradesh Public Works Department (HPPWD) and Jaypee University of Information Technology

In this workshop, the physical, chemical, and microstructure char-



Participants of workshop posing for group photograph.

acteristics of bitumen, soil and concrete-linked ingredients were discussed, to make safe use of concrete and bitumen mixture design. Special emphasis was given on use of sustainable construction materials which are obtained from industrial waste.

Live laboratory sessions were held for the participants in order to give them exposure to testing and codal provisions.

More than 100 participants including Assistant Engineers and Junior Engineers from HPPWD and various academic personalities have been registered for the above workshop.

Professor Ashok Kumar Gupta, HOD CED, Jaypee University of Information Technology, Wazirpur, New Delhi, inaugurated the workshop in online mode on "Sustainable construction practices for Civil Engineers" concluded.

The inauguration of the workshop was done by JUIT Vice Chancellor Prof Vinod Kumar.

The Convener of the program, Dr. Tanmay Gupta, Dr. Amardeep and Dr. Aakash Gupta mentioned that the workshop was organized in online mode for the purpose of establishing a strong relationship between the Government officials

of Himachal Pradesh Public Works Department (HPPWD) and Jaypee University of Information Technology. In this workshop, the physical, chemical, and microstructure characteristics of bitumen, soil and concrete-linked ingredients were discussed, to make safe use of concrete and bitumen mixture design. Special emphasis was given on use of sustainable construction materials which are obtained from industrial waste. Live laboratory sessions were held for the participants in order to give them exposure to testing and codal provisions. More than 100 participants including Assistant Engineers and Junior Engineers from HPPWD and various academic personalities have been registered for the above workshop. Professor Ashok Kumar Gupta, HOD CED, Jaypee University of Information Technology, Wazirpur, New Delhi, inaugurated the workshop in online mode on "Sustainable construction practices for Civil Engineers" concluded. The inauguration of the workshop was done by JUIT Vice Chancellor Prof Vinod Kumar. The Convener of the program, Dr. Tanmay Gupta, Dr. Amardeep and Dr. Aakash Gupta mentioned that the workshop was organized in online mode for the purpose of establishing a strong relationship between the Government officials





जेपी यूनिवर्सिटी ऑफ इंफॉर्मेशन टेक्नोलॉजी (जेयूआइटी), वाकनाघाट (हिमाचल) की ओर से आयोजित कार्यशाला में उपस्थित अधिकारी व अन्य।

जेपी विश्वविद्यालय ने पीडब्ल्यूडी अधिकारियों के लिए आयोजित की कार्यशाला

नई दिल्ली, (वि.) : जेपी यूनिवर्सिटी ऑफ इंफॉर्मेशन टेक्नोलॉजी (जेयूआइटी), वाकनाघाट (हिमाचल) के सivil इंजीनियरिंग विभाग ने हाल ही में पीडब्ल्यूडी अधिकारियों के लिए एक सप्ताह की कार्यशाला का आयोजन किया। कार्यशाला का उद्घाटन तीन अगस्त को जेयूआइटी के कुलपति प्रो. विनोद कुमार ने किया था।

कार्यक्रम के संयोजक डॉ. तन्मय गुप्ता, डॉ. अमरदीप और डॉ. आकाश गुप्ता ने बताया कि वर्चुअल प्लेटफॉर्म पर इस कार्यशाला का

आयोजन हिमाचल प्रदेश लोक निर्माण विभाग (एचपीपीडब्ल्यूडी) के अधिकारियों और जेयूआइटी के बीच मजबूत संबंध स्थापित करने के उद्देश्य से किया गया। इस कार्यशाला में विटुमेन, भू-तकनीकी और कंक्रीट से जुड़े अवयवों की भौतिक, रासायनिक और व अन्य विशेषताओं पर चर्चा की गई, ताकि कंक्रीट और कोलतार मिश्रण का सुरक्षित उपयोग किया जा सके। कार्यशाला में औद्योगिक कचरे से प्राप्त होने वाली निर्माण सामग्री के उपयोग पर विशेष जोर दिया गया था।

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. Sitaramanjeyulu (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])



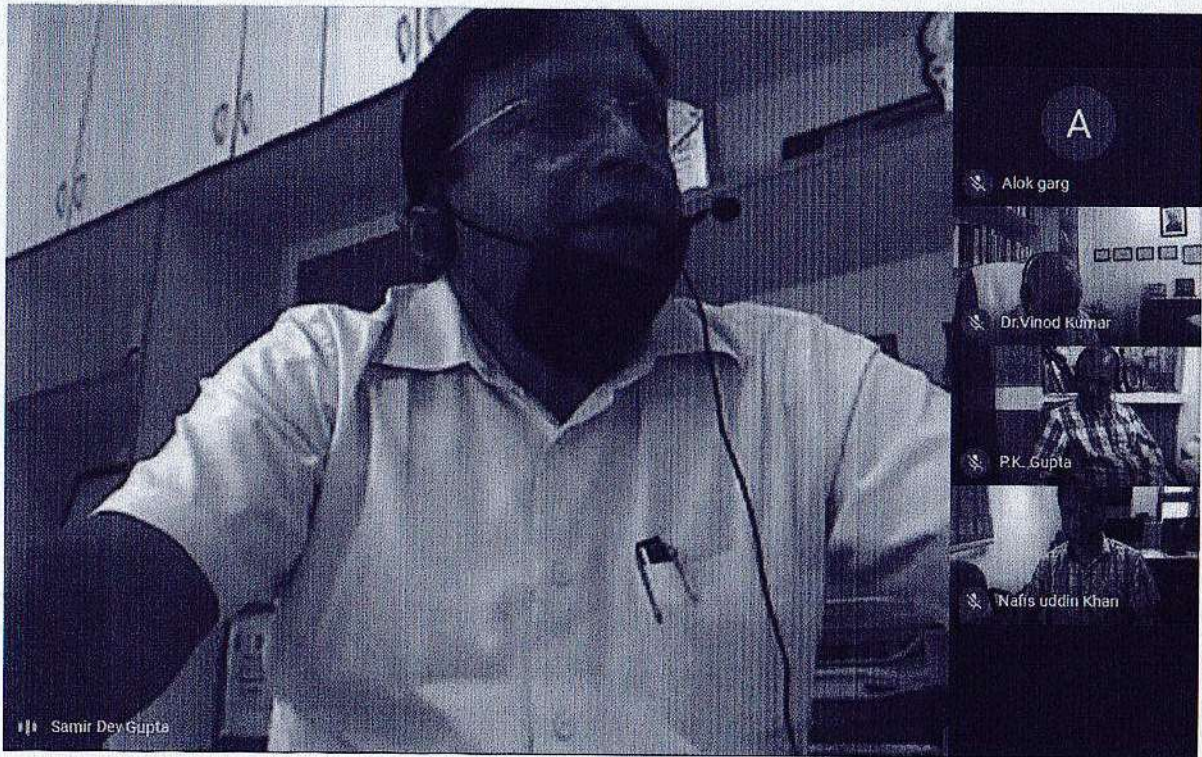
Recent Advances in Computational Intelligence for Signal Processing (RACISP-2020)

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.

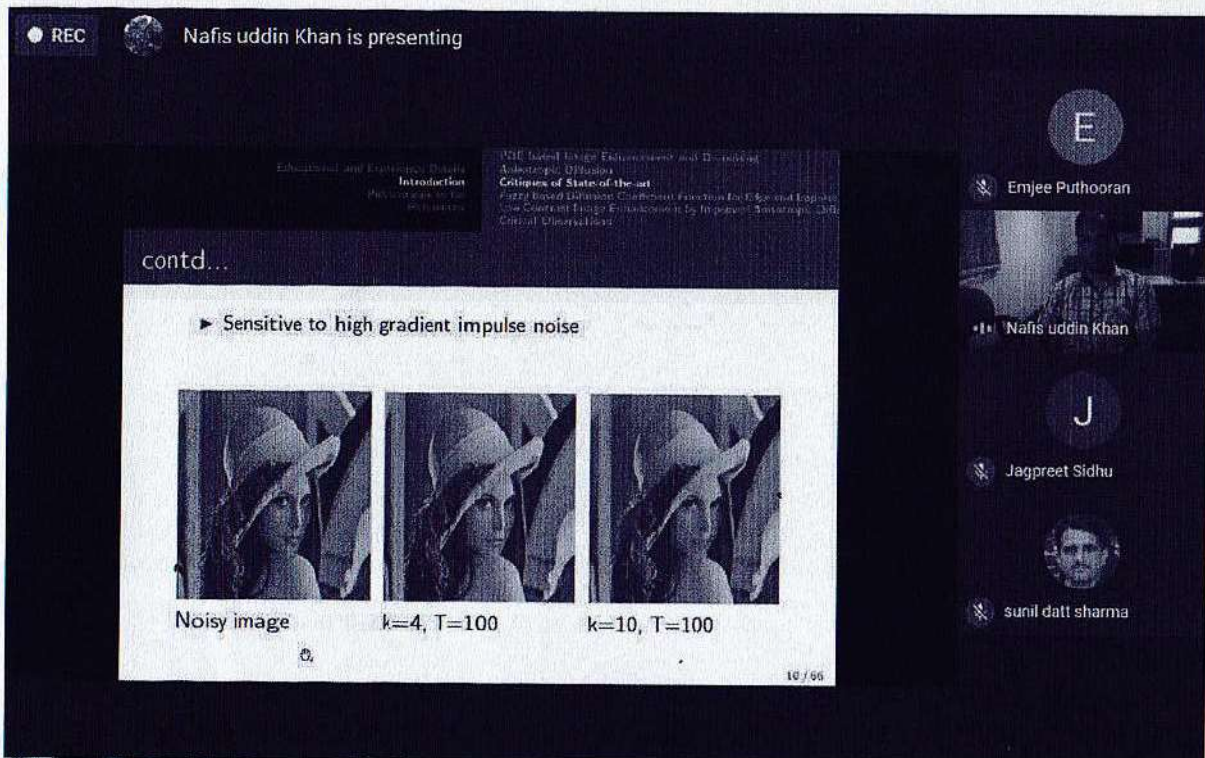
The program was inaugurated by honourable Vice –chancellor (**Prof. Vinod Kumar**) and Dean Research (**Prof. Samir Dev Gupta**). They highlighted the importance of computational techniques in signal processing and motivated the participants. More than 110 faculty members, research scholars from various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



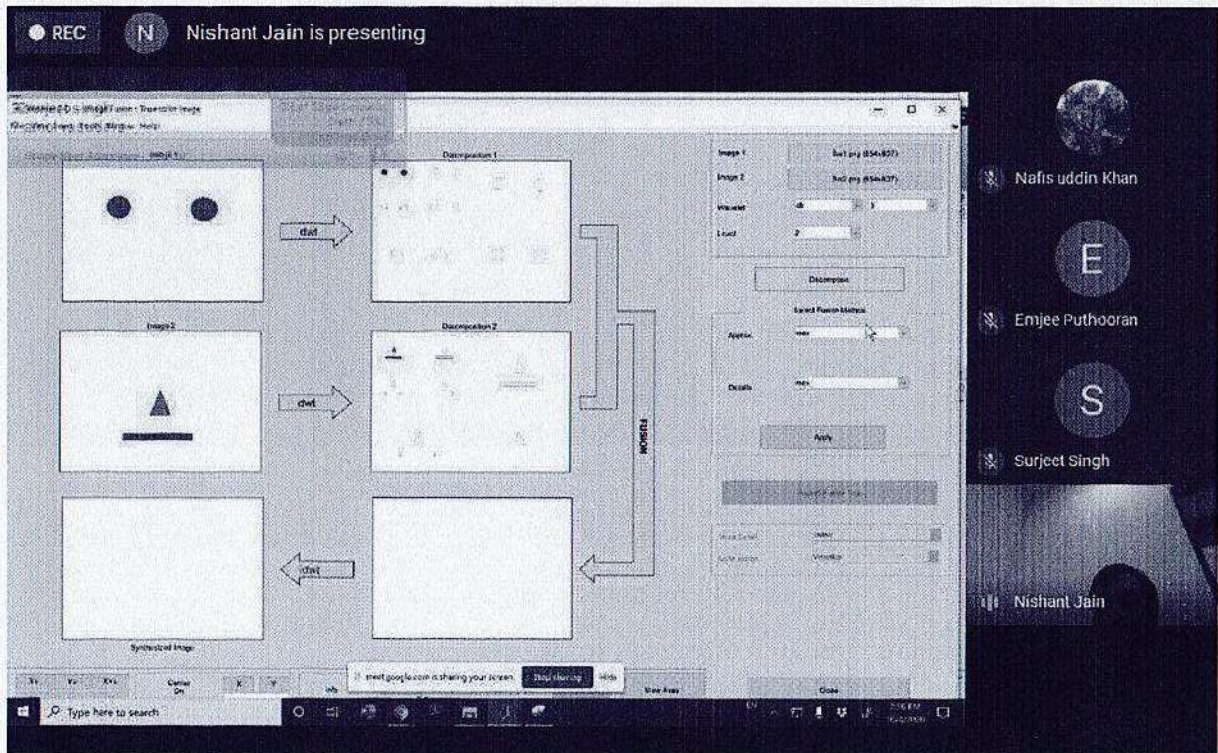


Expert Sessions:

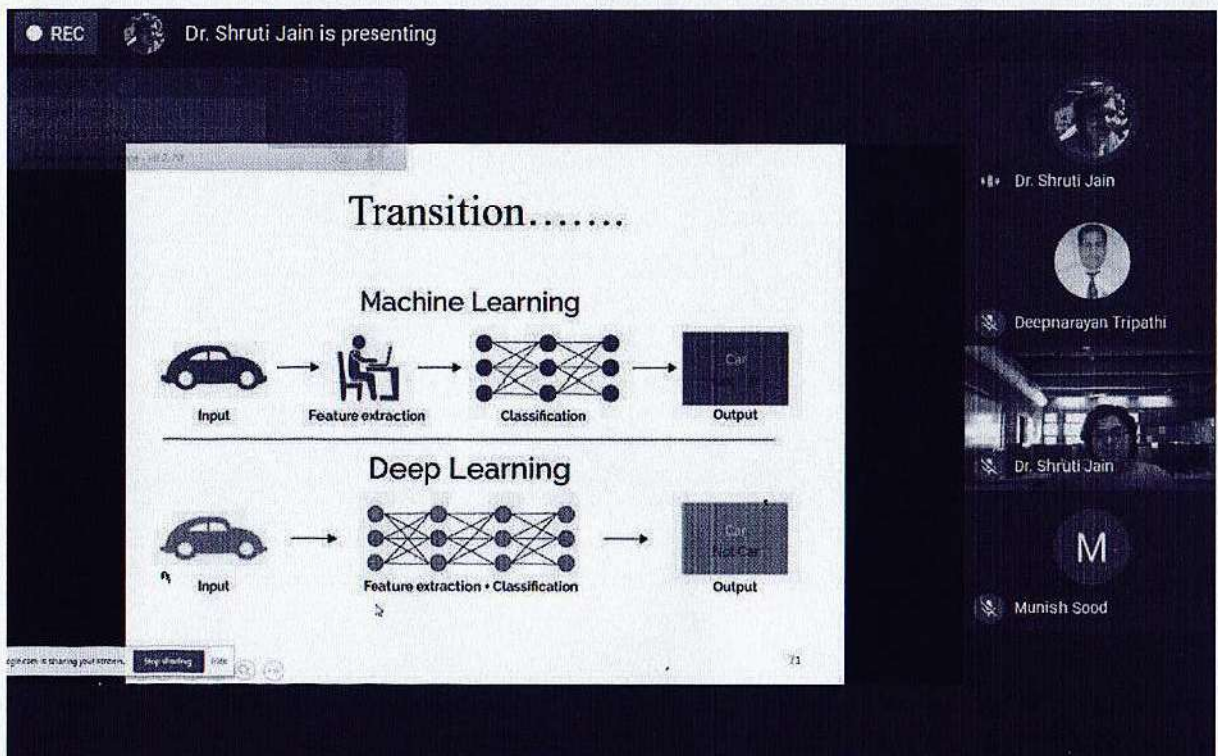
First session was taken by **Dr. Nafis Uddin Khan** and he focussed on Fuzzy inference based edge detection in digital image processing and also highlighted on the open research problems in this area.



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



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



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

How Fast is Enough for DSP?

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

Participants: 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

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; 1, 2, 3, 4, 5; 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.

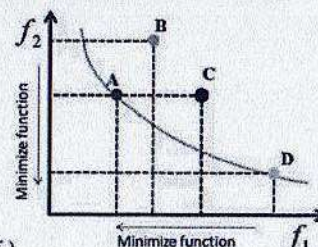
Definitions




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.




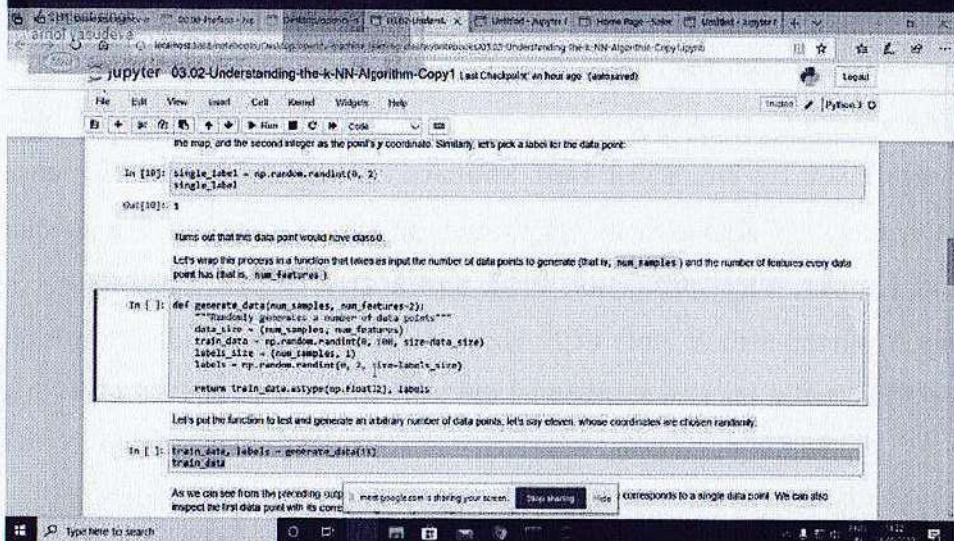


Vikas Baghel

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





```

In [10]: single_label = np.random.randint(0, 2)
single_label
Out[10]: 1


Lets see that this data point would have class 0.
Lets wrap this process in a function that takes as input the number of data points to generate (that is, num_samples) and the number of features every data point has (that is, num_features).

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

Lets put the function to test and generate an arbitrary number of data points, lets 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

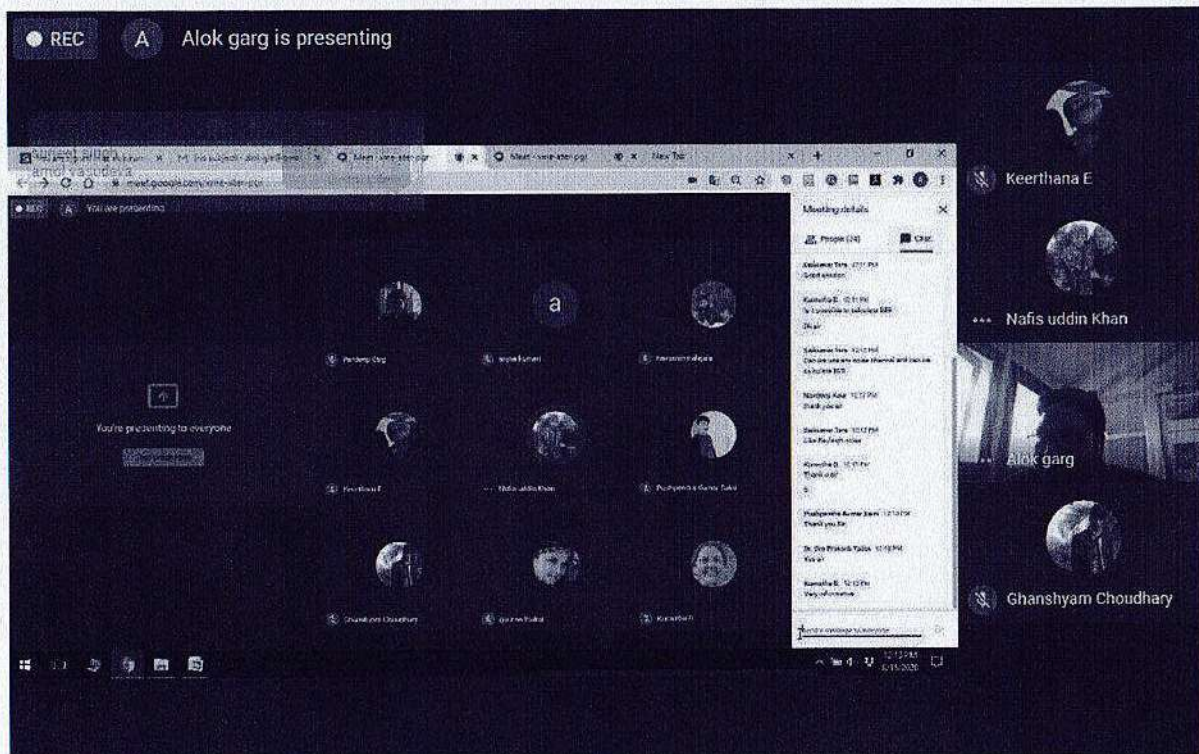
Yugal Kumar

Jagpreet Sidhu

Deepnarayan Tripathi



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



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

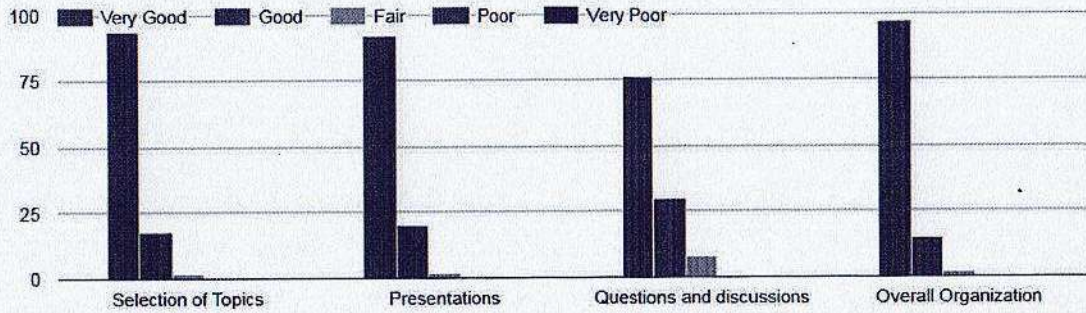
The short term course was concluded with valedictory function. The highlights of the course were given by **Dr. Vikas Baghel**. The valedictory speech was given by **Dr. Nafis U. Khan**. The vote of thanks was given by **Dr. Sunil Datt Sharma**. He highlighted the immense contribution of the Organizing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

Feedback by Participants:

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

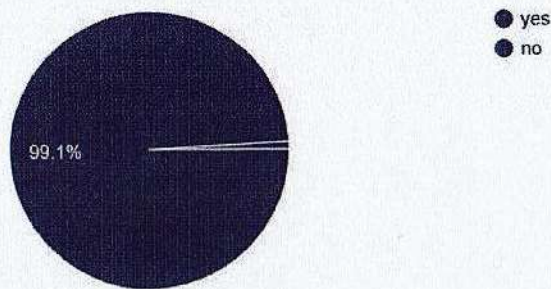


What is your rating of the following aspects of STC?



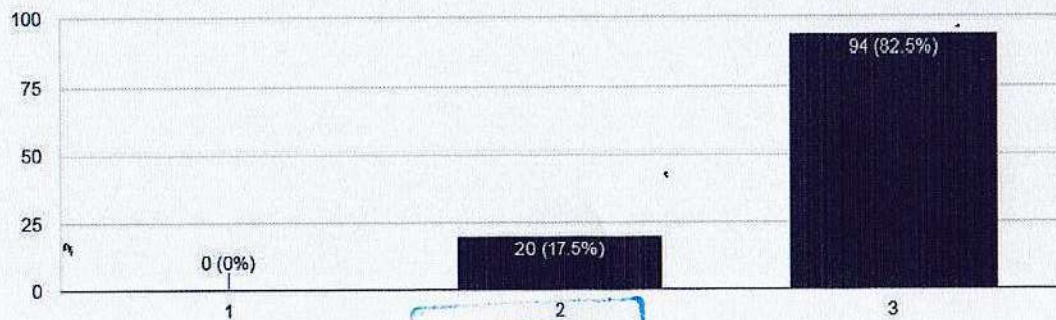
Did the STC meet your learning and research objectives?

114 responses



What is your overall evaluation of the short term course?

114 responses



Workshop on Waste Management – Issues and Concerns 2020

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

The program was successfully completed under the auspices of

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

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



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

Date	Time	Name of Resource Person	Title of Presentation
21/08/2020	10.30 -11.00 AM	Inaugural Session	Inaugural Lecture
	11.00 AM – 12:00 AM	Prof. Babu Alappat (IIT Delhi)	Rapid Characterization Of MSW For Integrated Waste Processing Systems.
	12.30 -01.30 PM	Dr. Anoop Verma (Thapar University)	Application of waste material towards environmental remediation; Value addition to the waste.
	01.30 -02.30 PM	Prof. M. Chandrasekhar (NIT Warangal)	Estimation of Indices for Assessment of Quality of Compost Derived from Municipal Solid Waste.
	02.30 -03.30 PM	Ms. Nidhi Sharma/Etosha 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 Wajnaghat



THE PERILS OF SMOKING, DRUGS AND ALCOHOL

24 August 2020

A webinar on "The Perils of Smoking, Drugs and Alcohol" was conducted on 26th September 2020 w.e.f. 11:30AM to 01:00PM to educate all, regarding ill effects of smoking, drugs and alcohol. Dr. Bharti Jaswal (Chief Medical Officer), Medical Center, JUIT, Wagnaghat, Solan spoke on the topic. There were a lot of

queries by the attendees which were nicely clarified by Dr Bharti Jaswal at the end of the session. The whole session was very interesting as could be inferred from duration of the session which lasted for more than one and half hours and from the number of queries at the end of the session.

SMOKING

- It is a no-brainer that cigarettes are EXTREMELY HARMFUL/harmful.
- We've known about the dangers of smoking for decades.
- Let's look how exactly do cigarettes harm us
- As to what happens as their ingredients make their way through our bodies.
- With each inhalation, smoke brings its more than 5,000 chemical substances into contact with the body's tissues.

(Small video inset of Dr. Bharti Jaswal speaking)

What is in a cigarette?

(Diagram of a cigarette with labels for: Tar, Nicotine, Carbon monoxide, Acetone, Benzene, Formaldehyde, Lead, Arsenic, Cadmium, Chromium, Copper, Nickel, Silver, Tin, Vanadium, Zinc, and other chemicals.)

(Small video inset of Dr. Bharti Jaswal speaking)

Drugs

Drug Abuse

Drug Dependence

- Physical dependence
- Mental dependence

(Small video inset of Dr. Bharti Jaswal speaking)

Alcohol's Effects on the Body

- Alcohol is a depressant. Although it can make you feel like drinking alcohol regularly, there are still negative effects on the effects on the mind and body.
- The liver can metabolize alcohol but the liver has a limited capacity to do so. Excessive alcohol consumption can lead to liver damage.
- Alcohol can lead to:
- Liver disease
- Stomach ulcers, reflux, and esophageal disease
- Pancreatitis
- Loss of coordination
- Loss of judgment
- Hallucinations, delirium
- Blood clots
- Reduced and body temperature
- Blood pressure
- Heart disease
- Stroke

(Small video inset of Dr. Bharti Jaswal speaking)

Categories of drug of abuse

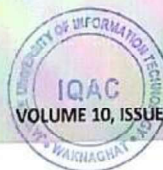
- Narcotics
- Hallucinogens
- Stimulants

(Small video inset of Dr. Bharti Jaswal speaking)

Effects of Alcohol on the Body

- Liver
- Stomach
- Brain
- Heart
- Immune system
- Reproductive system

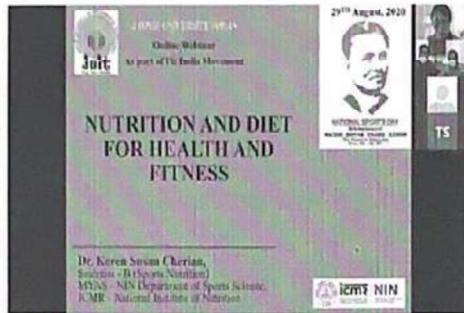
(Small video inset of Dr. Bharti Jaswal speaking)



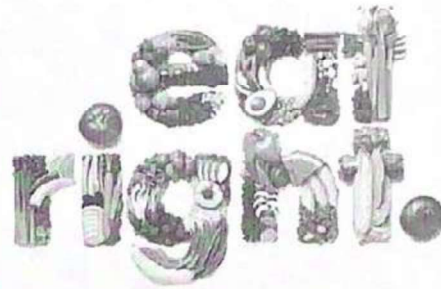
Activities under Fit India Movement

TALK ON NUTRITION AND DIET

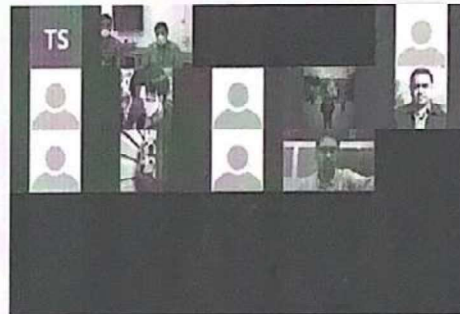
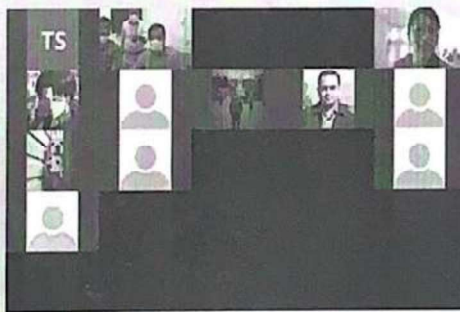
29 August 2020



A session of webinar on "Nutrition for General Health and Fitness" has been conducted on 29th August 2020 at 11:30AM in order to spread the knowledge of nutrition on the fitness among Students, Faculty members and Staff of the JUIT Waknaghat. Dr. Keren Susan Cherian, Scientist, National Institute of Nutrition, Hyderabad (an Indian Council of Medical Research Institute) shared details on balanced diet, hydration and nutrition to boost immune



system. There were a lot of queries by the attendees which were nicely clarified by Dr Keren Susan Cherian at the end of the session. The whole session was very interesting as could be inferred from duration of the session which lasted for more than one and half hours and from the numbers of queries at the end of the session. A good number of participants attended the webinar.



Activities under Fit India Movement

FIT INDIA FREEDOM RUN

26 September 2020

The Fit India Freedom run was organized by Sports Club & Fit India Campaign Club of JUIT on 26th September, 2020 (Saturday) at 6:45 AM. More than 30 participants assembled at the designated site and participated in the event. The track run was approximately 2.0 Kms.

The track was **STARTING POINT**-- Vivekananda Statue--- Parmar hostel--- SOR--- Civil Department--- return from Mini Football Ground---on same track--**FINISHING POINT**-- Vivekananda Statue.



Activities under Fit India Movement

SPORTS QUIZ

26 September 2020

A Sports quiz about the awareness and knowledge of sports/fitness was conducted on 26th September 2020 in online mode. A total of 71 students participated in this event out of 180 who registered for it. The quiz comprised of 30 questions and participants had to return/submit it within 10 minutes. The quiz was graded and the top 3 performers were announced as under:-

- (a) Ayush Dhamani (191262)
- (b) Aryamaan (191253)
- (c) Shubham Kumar (171031)





JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

VICHARANA 2020: Exit Report

VICHARANA 2020 was the Ideathon event organized by TIED Cell in association with Technovatorz and e-yantra on 17th Oct 2020 through GoogleMeet. Under the event innovative ideas were welcomed from the students of the University to solve different problems in any of the following three themes:

1. Health monitoring system
2. Natural disasters prediction/prevention. e.g. Flood, Landslides, Drought, etc.
3. Security and surveillance.

15 teams that involved a total of 35 students had submitted their ideas for the first round and keeping the main aim of the program in mind which is always to encourage students in getting themselves involved in project development, all the 15 teams were selected for the second round. In the second round, teams presented their ideas in front of a judging panel.

Our Judging panel consisted of a total of 4 Alumni and 2 faculty of University. 2 Judging panels were created:

Judges in Panel 1 were:

1. Mr. Sanjay Singh, (Alumnus 2002-2006), Infosys.
2. Mr. Dhruv Batra, (Alumnus 2013-20017) , Marketing Lead, Life Optoelectronics
3. Prof. Ashish Kumar, Professor , Civil Engineering Department

They judged the ideas under the themes Health monitoring system, and Natural disasters prediction/prevention.

Judges in Panel 2 were:

1. Mr. Vineet Krishna, (Alumnus 2004-2008) Senior Project Manager, Fidelity Information Services (FIS) India
2. Mr. Sumit Vardhan, (Alumnus 2008-2012) Patent, Technology & Market Research Consultant , Abu Dhabi Department of Economic Development
3. Dr. Harsh Sohal (Assistant Prof. , ECE Department)

They judged the ideas under the theme Security and surveillance.



Schedule for the event was as follows:

S.No.	Time (IST)	Event
1	14:00 - 14:30	Interaction of Judging Panel consisting of Alumni and Faculty
2	14:30 - 16:30	Presentation Time
3	16:30 - 17:00	Award Ceremony

Judging sheet was in the form of following Google Form: <https://tinyurl.com/y6gz64mx>
To make the marking unbiased, all the Judges were requested to fill the above form separately for each team.

After all the presentations were over, Dr. Nishant Jain, who was coordinating google Meeting of both the judging panels, compiled the marks and announced the winners under the three themes which were as follows:.

1. Under the theme Health monitoring system , Winner is Team CAPTIVATORS: Sanyam Saxena(191214), and Vipasha Rana(191226).
2. Under the theme Natural disasters prediction/prevention Winner is Team Binary Coders: Devansh Gupta(191038), Varun Chodha(191504), and Stuti Roy(191046).
3. Under the theme Security and surveillance Winner is Team Triton: Zeeshan Naseem(191011), Mukul Anand(191029), and Shikhar Trivedi(191012)

Winning team under each theme was awarded with the support of Rs 10,000/- that the winning team can use for the development of a prototype for their idea. If students are able to build the prototype then they will be encouraged to submit their ideas and project in events like Smart India Hackathon, e-Yantra event by IIT Bombay and students will be encouraged to submit business ideas.

Event was concluded by motivating words from all the Alumni for the participants and organising team. Prof. Ashish Kumar and Dr. Nishant Jain gave thanks to all the judges and to all the participants. They also show gratitude to the administration of JUIT and HoD of ECE department for providing a motivation for the event. They thanked HP govt for funding TIEDC and supporting innovation activities in the campus

Organising Team:

Dr. Nishant Jain
Assistant Professor
Department of ECE

Dr. Vikas Baghel
Assistant Professor
Department of ECE

Dr. Harsh Sohal
Assistant Professor
Department of ECE

Prof. Ashish Kumar
Professor
Department of CE





Jaypee University of Information Technology

TIED Cell in association with Technovatorz and e-yantra
is organising

VICHARANA 2020

Innovative ideas are invited in the following three themes:

- Health monitoring system
- Natural disasters prediction/prevention
- Security and surveillance

Last Date of Registration & Submission of Idea: 19th Sep. 2020

Date of Presentation of the shortlisted Ideas: 26th Sep. 2020

For details visit, <https://tinyurl.com/y23phzjs>

For free registration: <https://tinyurl.com/y5e8e7ez>

For any query, contact us at nishant.jain@juitsolan.in





Jaypee University of Information Technology

TIED Cell in association with Technovatorz and e-yantra

is organising

VICHARANA 2020

Judges



Mr. Sanjay Singh
Project Manager, Infosys
Ltd.
Alumnus (2002-2006),
ECE, JUIT



Mr. Vineet Krishna
Senior Project Manager
Fidelity Information
Services
Alumnus (2004-2008),
ECE, JUIT



Mr. Sumit Vardhan
Patent & Market Research
Consultant
Alumnus (2008-2012),
ECE, JUIT



Dr. Harsh Sohal
Assistant Professor,
ECE, JUIT



Mr. Dhruv Batra
Co- Founder
Life Optoelectronics
Alumnus (2013-2017), ECE, JUIT



Prof. Ashish Kumar
Professor,
CE, JUIT



list of Participants
Vicharana-2020.- 17 Oct 2020

Sr. No.	Participant	Enrol No	Batch	Email ID
1	Rijul Sharma	191336	CS-35	rijul228@gmail.com
2	Shreya Jayant	181249	CS-52	jayant.shreya@gmail.com
3	Ashima Pal	191454	CS-34	ashimapal74@gmail.com
4	Saloni	201342	CS19	201342@juitsolan.in
5	Dhruv Srivastava	201346	CS19	201346@juitsolan.in
6	Kriti Vij	201344	CS19	201344@juitsolan.in
7	Harshit Singh	201002	EC11	201002@juitsolan.in
8	Akhil verma	201005	EC11	201005@juitsolan.in
9	Saksham maini	201004	EC11	201004@juitsolan.in
10	Aditya Mishra	181023	ECE	181023@juitsolan.in
11	Priyank Srivastav	181001	ECE	181001@juitsolan.in
12	Ritika Tiwari	191028	ECE	191028@juitsolan.in
13	Aryaman Sinha	191330	CS35	aryan040501@gmail.com
14	Aishani Pachauri	191393	CS37	aishani.pachauri@gmail.com
15	Utkarsh Kumar	191344	CS35	kr.utkarsh777@gmail.com
16	Krishna Modi	201114	CS11	201114@juitsolan.in
17	Shreyansh Srivastava	191044	ECE-32	srishreyansh90444@gmail.com
18	Prajwal Shukla	191048	EC-32	prajwalshukla20001@gmail.com
19	Tenzin	171672	CE 73	tenzinjerry16@gmail.com
20	Kinzang Peldon	171677	CE 73	kinzangpei99@gmail.com
21	Zeeshan Naseem	191011	ECE 31	NZEESHAN6@GMAIL.COM
22	Puneet Katoch	201385	CS110	201385@gmail.com
23	Devansh Gupta	191038	EC32	devanshgupta1515@gmail.com
24	Shreyansh Srivastava	191044	EC-32	srishreyansh90444@gmail.com
25	Shikhar Trivedi	191012	ECE 31	shikhartrivedi078@gmail.com
26	Stuti Roy	191046	EC32	roystuti04@gmail.com
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samirdev.gupta/Juit@juit.ac.in, vinod.kumar/Juit@juit.ac.in

Date: Saturday, October 17, 2020 08:42AM
Subject: Webinar by Dr. Indranil Saha, IPR cell, JUIT

Dear All,

Our IPR Cell is organizing an expert lecture by Dr. Indranil Saha , Founder – HIINXLEGAL, M.Sc (Presidency College, C.U), Ph.D (IISc, Bangalore), Post-Doctorate (UNESCO, Italy), LL.B (Hons. in IPR)(IIT-Kharagpur) on the theme “Patents, Innovations and Start ups”.

Date and Timings - 17 October, 2020, 2:30 pm

Google meet link : meet.google.com/bdw-gosi-wen
Regards

IPR Team (Dr. Shruti, Dr. Hemraj, Dr. Sudhir)

Thanks and Regards

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Report of Webinar

“Patents, Innovations and Start ups”

October 17, 2020 by IPR Cell, JUIT, Solan



The webinar titled “Patents, Innovations and Start ups” was organized by the IPR cell, JUIT Wanknaghat. The event was started at 02:30P.M with a welcome speech by Prof. Sudhir Kumar, Coordinator, IPR cell. He extended his warm welcome to the speaker of the session **Dr. Indranil Saha**, faculties, staff, students and participants of the event. About 65 participants attended the event.

Dr. Indranil Saha , Founder – HIINXLEGAL, M.Sc (Presidency College, C.U), Ph.D (IISc, Bangalore), Post-Doctorate (UNESCO, Italy), LL.B (Hons. in IPR)(IIT-Kharagpur)

The webinar covered the following topics :

1. What is a patent?
2. What is invention and inventive step?
3. Criteria for getting a patent



4. Inventions not patentable in India
5. Rights of a patentee
6. Importance & scope of patent in scientific work
7. Who can apply for patent?
8. Specifications, types, contents and Claims
9. Timelines and procedures for obtaining patent
10. Pre-grant opposition & Post grant opposition
11. Unity of invention
12. Types of patent applications
13. Divisional Application
14. Patent of Addition
15. Licensing and monetization of patents
16. Compulsory licensing of patents
17. What is Small Business Entity?
18. What is a Start Up?
19. What is a MSME?
20. Business entities eligible for registration
21. Sole-proprietorship
22. Private Limited Company
23. Limited Liability Partnership (LLP)
24. Partnership
25. How to register a Start Up?
26. How to register a MSME?
27. Benefits of a Start Up & MSME

After attending the webinar, participants may able to

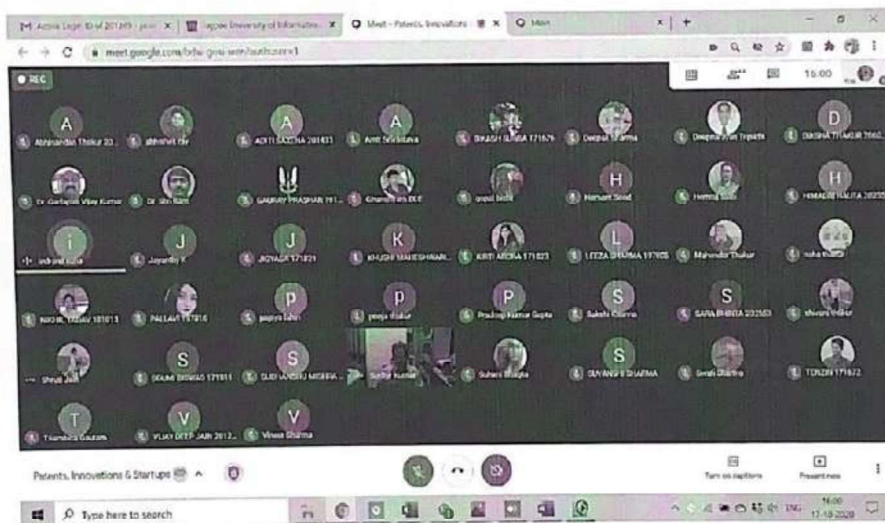
1. undertake better methodology and techniques for their scientific work for which they can apply for patents along with the institute involved or on an individual basis.
2. Understand the value of the scientific work will be upgraded as a patent has more value than a research publication.
3. The students in the audience will have a preliminary but clear understanding of how to open their own Start Up's and MSME's. They will be motivated to be job creators themselves rather than being job seekers.

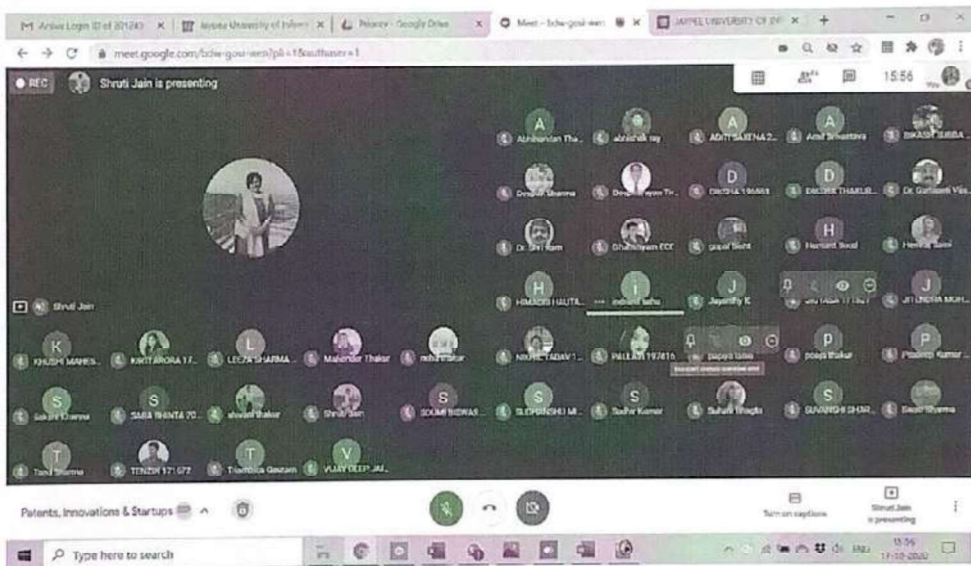
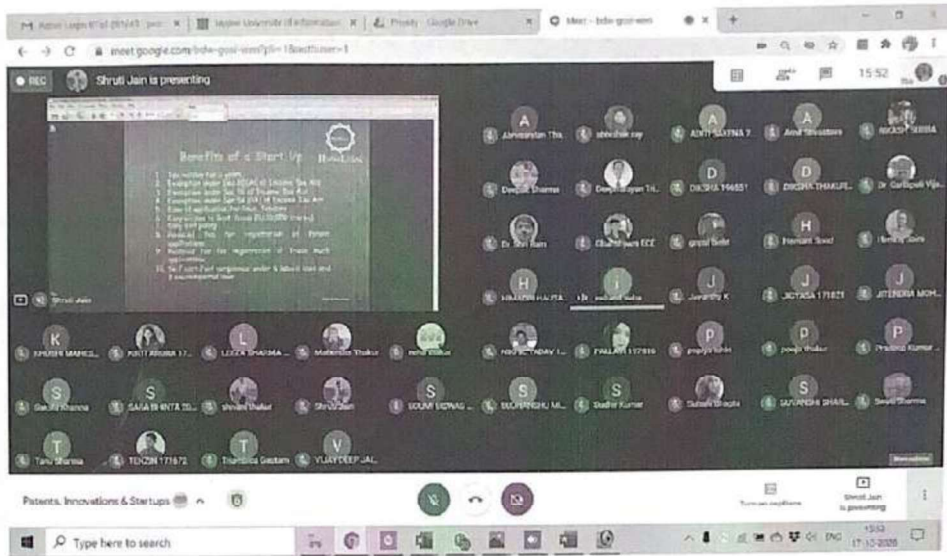


4. The faculty and the students are motivated to do even better scientific work resulting in application for patents due to which their value as well as the academic and economic value of the institute will rise appreciably in every sphere in India and abroad.
5. The institute will be motivated to build and launch new products and processes in the market for the benefit of the consumers including the scientific community.
6. The institute can license the patents and make profit once it gains knowledge in this domain.

Dr. Hemraj Saini, Co-coordinator helped in asking queries of participants after the session. Towards the end, Dr. Shruti Jain, the Member Secretary of the cell, expressed her gratitude to the university administration for their constant encouragement and support in conducting the webinar, and participants for making it a grand success. A special vote of thanks also needs to be mentioned for Mr.Pramod Kumar for handling the technical aspects of the webinar very efficiently.

Last but not the least a special thanks to HIMCOSTE, Shimla for providing support.





Sports Club event

Inter Department Sports Competition - 2019

November 13 to December 2, 2019

JUIT sports club, organised 1st Inter department sports competition 2019. The competition was held from November 13, 2019 to December 2, 2019. The events was organised for the students and employees of the University.

The sports meet was inaugurated by Maj Gen Rakesh Bassi (Retd.), Registrar and Dean of Students on November 13, 2019. Basketball and Badminton, two games for included in the competition. Total 94 students and 14 faculty/staff members have participated in the event and showed the true picture of sportsmanship.

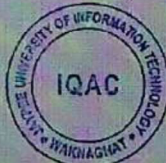
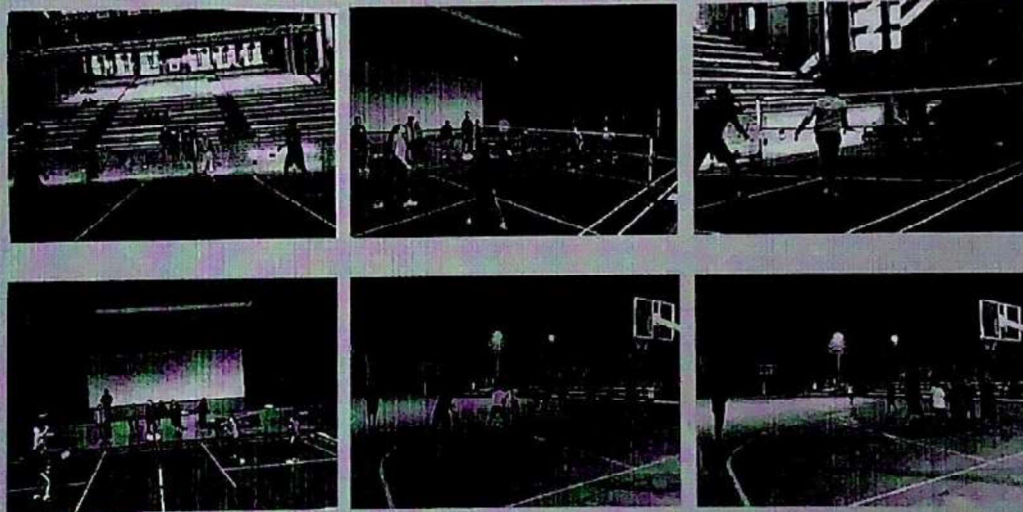
The format for the competition was league-cum-knockout matches. Faculty and staff members of JUIT got the opportunity to step

out of their busy academic schedule to showcase their sportsmanship and talent.

Results:

Badminton		
Students	Winner	CSE - 2 (Bharat & Team)
	Runner Up	CSE - 1 (Akshay & Team)
Faculty/Staff	Winner	CSE - Dr Amit & Mr. Surjeet
	Runner Up	BT/BI - Dr. Tiratha Raj & Dr. Harish

Basketball		
Students	Winner	Civil - Anirudh & Team
	Runner Up	CSE - Prajawal & Team



Entrepreneurship Workshop 2020

The Technology Incubation Entrepreneurship and Development Cell at Jaypee University of Information Technology, Solan organized an Entrepreneurship Workshop on the weekend of 21st and 22nd November, 2020.

A two day event, with 80 participants, the workshop was a way to introduce college students to the various aspects of the startup world. Participating students were briefed about topics like Business Development, Marketing, Finances and Design Thinking through presentations and sessions hosted by the members of the E Cell. At the end of the first day, following the sessions, an event was organized wherein participants were teamed up with one another. The teams were then asked to come up with an idea which they felt could eventually lead to a startup. Along with pitching their ideas, teams had to build their own Business Model Canvas - a representation of various parts of a startup, from the Partners, Resources, Marketing and Revenue Streams

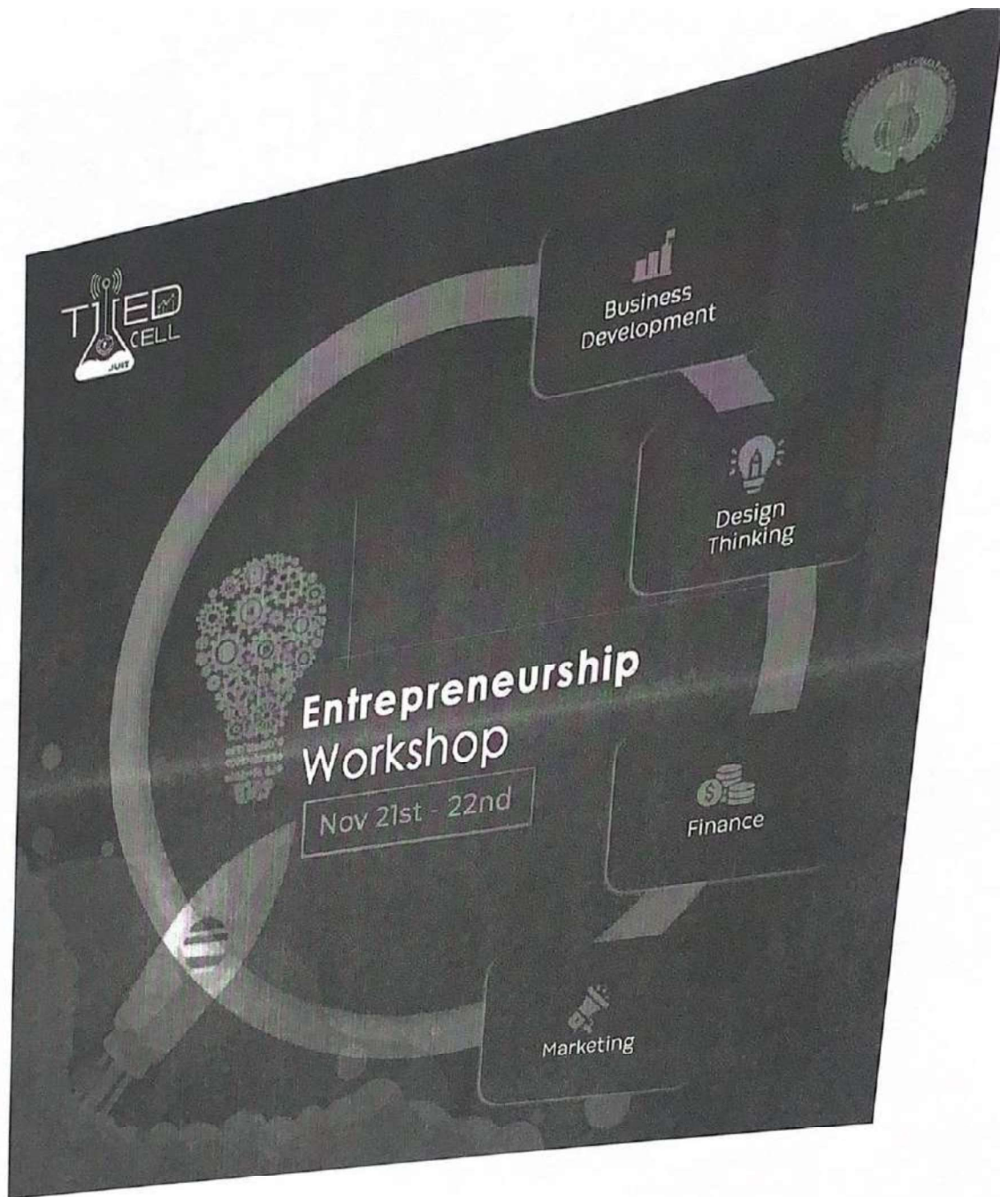
The second day started early at 11 am with a brief session for the participants on how to pitch any idea and make presentations for the same. The pitches commenced at 3:30 PM wherein each team presented their idea and the related Business Model to the panel. Each pitch lasted 10 minutes including questions put up to the teams regarding their startup idea by the panel

The top two teams whose ideas and presentations stood out were -

1. Siddharth Kuthiala, Khushi Chabra, Archit Kaushal, Shikhar Khandelwal
2. Ishan Sharma, Paras Sharma, Aarhan Ali Khan, Puneet Katoch

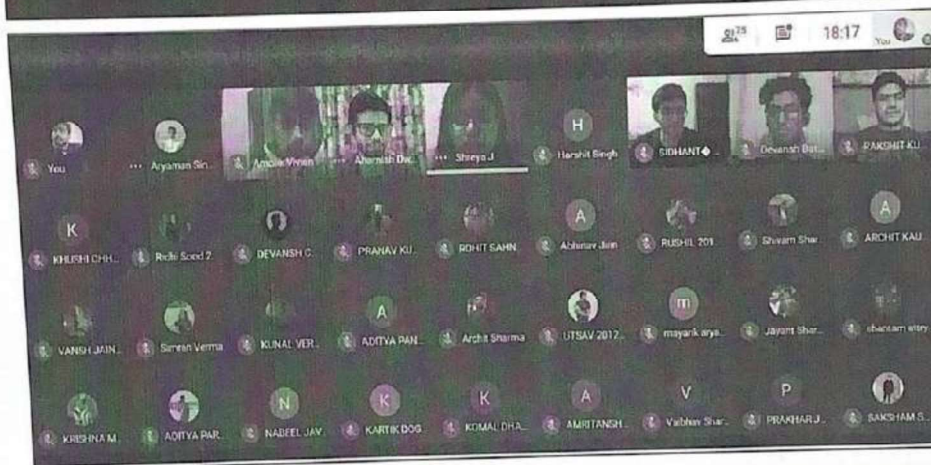
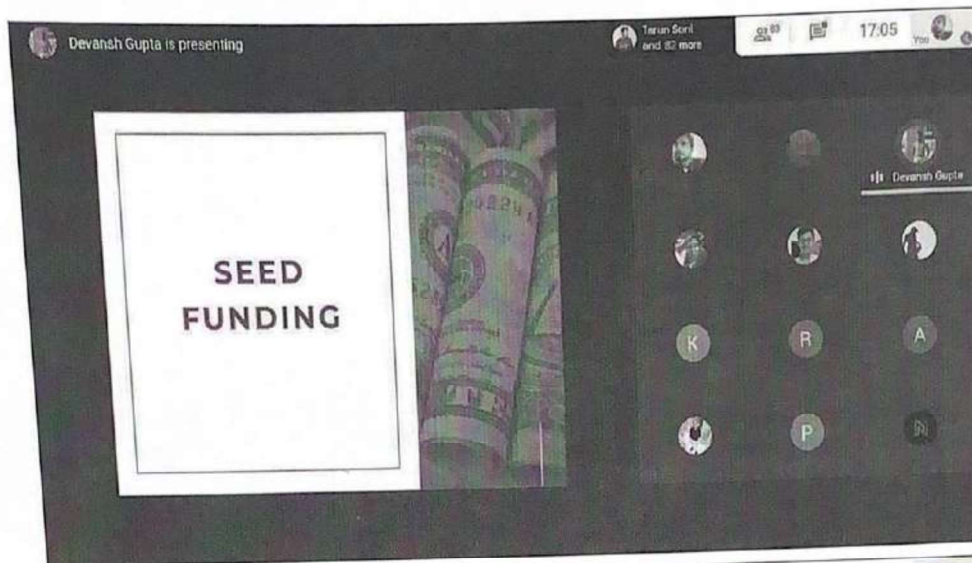
The event ended with positive feedback from the attendees on the entire two day learning experience.

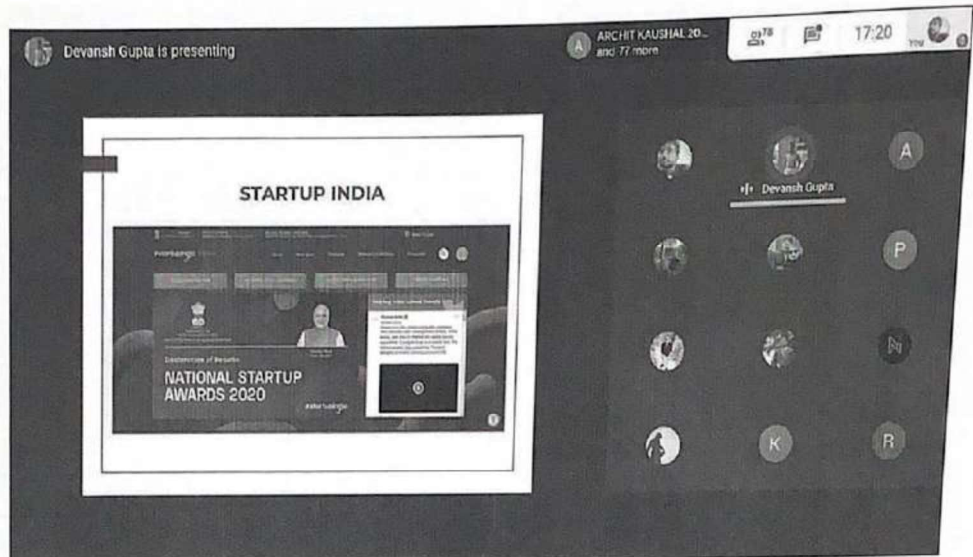




Event Screenshots:

DAY 1:





DAY 2:



S Siddharth Kuthiala is presenting

Sivran Verma and 10 more

16:19

HERE IS THE SOLUTION!

FEWPS - Forest-Fire Early Warning and Prevention System

How does it work?.....
The 30-30-30 rule!

How will it be helpful?.....
Warns you BEFORE a fire even starts!

Why now?.....
Cause its never too late!

UTSAV 201292 is presenting

ADITYA PARTAP SINGH 20... and 9 more

16:08

Business Model Canvas

Key Partners	Key Activities	Value Propositions	Customer Relationships	Customer Segments
<ul style="list-style-type: none"> Govt Private Government/Partners Insurance NGOs Local Community Advertisers 	<ul style="list-style-type: none"> Design tools Marketing Development Advertising and PR 	<ul style="list-style-type: none"> Access to Key Users Base Design Tools Cloud Platform with Reach Advertisement Advertising and PR Key Partnerships 	<ul style="list-style-type: none"> Personalized Customer support Self-Service 	<ul style="list-style-type: none"> Individuals who are interested in their experience Businesses who are interested in their marketing
	<ul style="list-style-type: none"> Key Resources Human Material Financial Intellectual 		<ul style="list-style-type: none"> Channels Digital App Website Offline Partnerships 	
<ul style="list-style-type: none"> Cost Structure Human and Government Material Cost of Research Development Marketing and PR 		<ul style="list-style-type: none"> Revenue Streams Advertising Subscription Partnerships Government 		



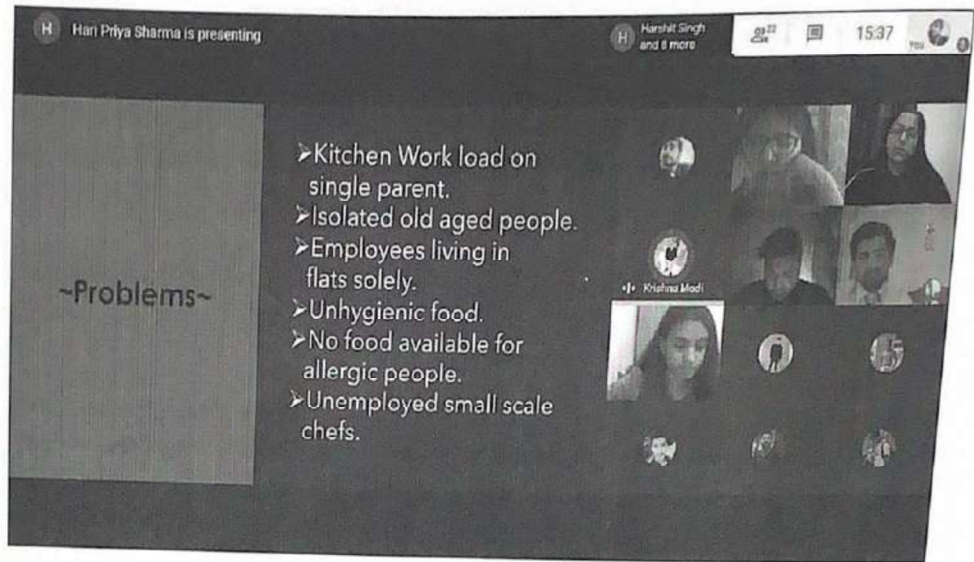
Han Priya Sharma is presenting

Harshit Singh and 8 more

15:37

~Problems~

- Kitchen Work load on single parent.
- Isolated old aged people.
- Employees living in flats solely.
- Unhygienic food.
- No food available for allergic people.
- Unemployed small scale chefs.

A screenshot of a Zoom meeting. The top bar shows 'Han Priya Sharma is presenting' on the left, 'Harshit Singh and 8 more' in the center, and '15:37' on the right. The main area is a presentation slide with a dark background and white text. The slide title is '~Problems~' and it lists six bullet points with right-pointing chevrons. On the right side of the slide, there is a grid of participant video thumbnails. One thumbnail is labeled 'Kishna Modi'. The bottom of the slide is partially obscured by a circular stamp.

list of registration

Entrepreneurship Workshop 2020.

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