REPORT

Webinar Series on

Advanced Testing Technologies for Geotechnical Investigation

Department of Civil Engineering, Jaypee University of Information Technology (JUIT) in association with Indian Geotechnical Society (IGS) Shimla Chapter organized a webinar series on "Advanced Testing Technologies for Geotechnical Investigation". The event was inaugurated by Prof. Dr. Ashok K. Gupta, Dean (Academics & Research), JUIT and Chairman IGS Shimla Chapter. Dr. Ashish Kumar, Head of Department, Civil Engineering, JUIT welcomed all the participants and emphasized on the importance of such lectures which can reduce the industry and academia gap. Five lectures, one lecture every week, were delivered by the expert panel from Cengrs Geotechnica Pvt. Ltd. starting from 18 September 2021. The details of topics and speakers are as follows:

1. Advanced Testing Technologies – An Introduction (18 September 2021), by Mr. Ravi Sundaram – Director, Cengrs Geotechnica Pvt. Ltd.
2. Static Cone Penetration Test (25 September 2021), by Mr. Sorabh Gupta – Director, Cengrs Geotechnica Pvt. Ltd.
3. Pressure meter Tests in Geotechnical Design (01 October 2021), by Mr. Sanjay Gupta – Managing Director, Cengrs Geotechnica Pvt. Ltd.
4. Geophysical Testing for Geotechnical Analysis (10 October 2021), by Mr. Ravi Sundaram – Director, Cengrs Geotechnica Pvt. Ltd.
5. Energy measurement for SPT (16 October 2021), by Mr. Ankit Uniyal, Geotechnical Engineer, Cengrs Geotechnica Pvt. Ltd.

The event was coordinated by Mr. Neeraj Singh Parihar and Mr. Rohan Singhal, Assistant Professors, Department of Civil Engineering, JUIT. The webinar series targeted the geotechnical practitioners from academia and construction industry. An overwhelming response was received with more than 480 registrations for the event. The participants consisted of research scholars, academic experts, industrial practitioners, and students from various organizations including IITs, NITs, L&T, AFCONS, G.R. Infra, GRIMTech, AECOM, WAPCOS, TATA, DRDO, GAIL, RITES, CSIR, and many others. All the attendees took active part in discussions and a range of practical problems were discussed with the expert panel. Mr. Ravi Sundaram, Director Cengrs Geotechnica Pvt. Ltd. expressed his interest in collaborating further with JUIT. The webinar series was concluded by a vote of thanks by Prof. Dr. Ashok K. Gupta. The content of the lectures delivered, was well appreciated by the participants as highlighted by the positive feedback.

Event Photographs:

Mr. Sanjay Singh, Project manager - Senior DevOps, Lead - mobility solutions, Infosys Limited, Ipswich, UK, connected with JUIT and delivered an Expert Lecture

"Research and Innovation for sustainable and human centered solutions"

On

Oct 09, 2021
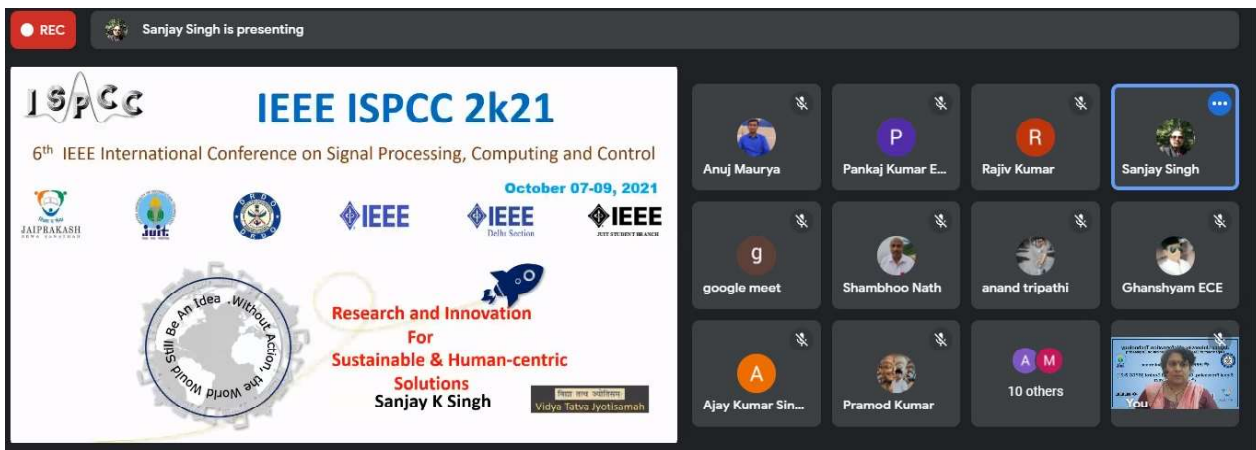
Sanjay (Sanjay Kumar Singh) is a proud JUIT Alumni and has distinction of being called the very FIRST batch of JUIT, Waknaghat. He completed his B. Tech in Electronics and Communication Engineering. He is an accomplished technology leader with more than 14 years of telecom domain experience and is working as a Project Manager with Infosys Limited. Driving DevOps team to accomplish transformation in Mobility Solutions and apps rollout strategies. He currently works out of Ipswich in UK and is working with UK's largest Telecom Operator, British Telecom. He specializes in driving system improvement, Operations and transformations in the field of workforce management for provisioning and assurance. The project develops iOS and Windows based apps aimed at making the life of Openreach and RoBT engineers comfortable and efficient.
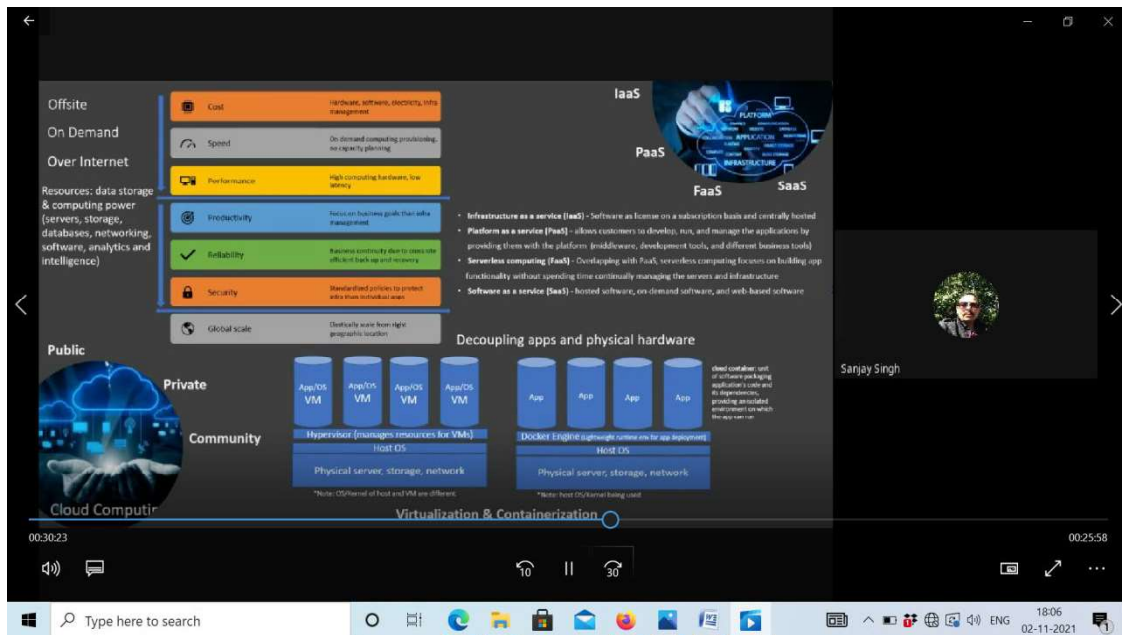
He delivered his talk on 9th October 2021. Being at the forefront of technology he was able to present his first hand knowledge of the problems faced by the humans at different levels and the catered solutions to individual's requirements. He emphasized the importance of cloud computing and innovations going on in that technology.

Coordinators: Dr. Rajiv Kumar**,** Dr. Shruti Jain, Dr. Harsh Sohal

Fifteen Days Workshop on STAAD Pro Software

Department of Civil Engineering organized a workshop on STAAD Pro Software from September 20, 2020 to October 5, 2020 in online mode. Workshop was conducted by Mr. Himanshu Singh, Director of RPRN Projects LLP company. He has a wide experience in construction industry and software training. In total, **87 participants** attended the workshop.

The program was successfully completed under the auspices of:

- Prof. Ashok Kumar Gupta – HOD, Department of Civil Engineering, JUIT Waknaghat.

- Mr. Chandra Pal Gautam – Assistant Professor, Department of Civil Engineering, JUIT Waknaghat and Program Convener.

Salient Features

- Video Recording of all lectures given by the speaker of the Workshop is available with the organizing committee to be shared with participants if requested.

- Hands-on sessions were conducted and participants were given assignments.

- After the completion of workshop, each participant was provided a digital certificate.

Workshop Schedule

20/09/20	• Overall approach to the software – Introduction • Getting started: Overview of the STAAD.Pro environment, Keyboard shortcuts, Documentation, Member local and global axis, etc.
20/09/20	• Modelling: Creating model objects, Properties and specifications, Supports, etc.
22/09/20	• Overview of the IS Codes: IS 875 (Part 1 & 2) – For calculation of Dead load and Live load – Application of load in STAAD.Pro
23/09/20	• Overview of the IS Codes: IS 875 (Part 3): 2015 – For wind force estimation for low rise and tall structures – Application of load in STAAD.Pro
24/09/20	• Overview of the IS Codes: Limit state design as per IS 800:2007 – part 1
25/09/20	• Overview of the IS Codes: Limit state design as per IS 800:2007 – part 2 Features available in STAAD.Pro
26/09/20	• Overview of the IS codes: IS 1893 (Part 1): 2016, IS 13920, IS 1893 (Part 4): 2015 - Part 1 and features available in STAAD.Pro
27/09/20	• Overview of the IS codes: IS 1893 (Part 1): 2016, IS 13920, IS 1893 (Part 4): 2015 - Part 2 and features available in STAAD.Pro
28/09/20	• Loads: Load application for Dead load, Live load, Wind load, Seismic load, etc., Create load list, load combinations, etc. in STAAD.Pro
29/09/20	• Technical references of few important STAAD commands Analysis: Types of analysis, Pre-analysis commands, to check for soft stories and seismic code irregularities, etc.
30/09/20	• Interpretation of the results – Statics check, deflected shape, mode shapes, etc.
01/10/21	• Understanding the basics of Structural Dynamics from the perspective of earthquake engineering and wind engineering – Features available in STAAD.Pro
02/10/21	• Design - Steel design and Concrete design in STAAD.Pro – Understanding of each design parameter and its impact on the design
03/10/21	• FEM design in STAAD.Pro – basics of finite elements, understanding of plate and Solid elements, Simple examples to understand interpretation of the results
04/10/21	• Examples RCC buildings – Starting from geometry creation to design of main elements
05/10/21	• Doubt session and closing of workshop

Report

One Week Workshop on

"Sustainable Highway Infrastructure"

A one-week workshop on "Sustainable Highway Infrastructure" was organized by the Department of Civil Engineering, JUIT Waknaghat from 17th November 2020 to 23rd November 2020, in online mode. The workshop was focused on the current practices adopted in the field for the construction of flexible and rigid pavement while considering different waste materials as the replacement of bitumen and cement.

The program was successfully completed under the auspices of:

- Prof. Vinod Kumar – Vice Chancellor of JUIT Waknaghat and Patron of the organized CEP by the Department of Civil Engineering.

- 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, Department of Civil Engineering, JUIT Waknaghat and Program Chair of the organized CEP by the Department of Civil Engineering.

- Dr. Amardeep – Assistant Professor, Department of Civil Engineering, JUIT Waknaghat and Program Convener.

- Dr. Aakash Gupta – Assistant Professor, Department of Civil Engineering, JUIT Waknaghat and Program Convener.

- Dr. Tanmay Gupta – Assistant Professor, Department of Civil Engineering, JUIT Waknaghat and Program Convener.

Workshop Schedule

17/11/20 First Day			
09:30-10:00AM	Inaugural Session		
10:00-11:00PM	Dr. Amardeep	Rigid Pavement • Current Practices	
11:00-01:00PM	Dr. Amardeep	Different Test for • Aggregate • Cement (with and without waste materials)	Concrete Lab
18/11/20 Second Day			
10:00-01:00PM	Dr. Amardeep	Mix-Design for Rigid Pavement • Without Waste Material • With Waste Materials	
19/11/20 Third Day			
10:00-11:00PM	Dr. Aakash Gupta	Flexible Pavement • Methods of Construction • Current Practices based on utilization of different waste materials	
11:00-01:00PM	Dr. Aakash Gupta	Live Test on • Penetration • Ductility • Softening Point • Flash and Fire etc	Highway Lab
20/11/20 Fourth Day			
10:00-11:00PM	Dr. Aakash Gupta	Use of RAP in construction of flexible pavement IRC 120:2015	
11:00-01:00PM	Dr. Aakash Gupta	Lab testing Reclaimed asphalt pavement	Highway Lab
21/11/20 Fifth Day			
10:00-11:00PM	Mr. Akash Bhardwaj	• Planning and Design Concept for Pedestrians • IS Code provisions for pedestrians and Urban Roads	
11:00-01:00PM	Mr. Akash Bhardwaj	Planning and Design Concept for Urban Street/Roads	
23/11/20 Sixth Day			
10:00-12:00PM	Dr. Amardeep	• Concrete Sample Testing (Strength Assessment) • Feedback Session	Concrete Lab
12:00-12:30PM	Prof. (Dr.) A. K. Gupta	Closing Ceremony	

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

Summary of the Participants

Types of Participants	Total No. of Registered Participants
HPPWD Assistant and Junior Engineers	20
Other Participants	60

Feedback of the Participants

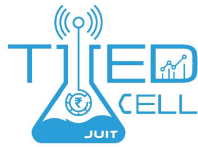| Types of Participants	Total No. of Registered Participants
HPPWD Assistant and Junior Engineers (20)	Excellent (88%) Very Good (8%) Good (4%)
Other Participants (60)	Excellent (85%) Very Good (12%) Good (3%)

With Regards

Dr. Amardeep,

Program Coordinator

Department of Civil Engineering

Jaypee University of Information Technology Waknaghat

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

VICHARANA 2020

TIED Cell in association with Technovatorz and e-yantra is organising VICHARANA 2020 in the last week of September 2020. Aim of the event is to welcome innovative ideas from the students of the University to solve different problems in any of the following three themes:

a. Health monitoring system
b. Natural disasters prediction/prevention. e.g. Flood, Landslides, Drought, etc.
c. Security and surveillance.

Last date of registration and submission of an Idea: 19th September 2020
Date of Presentation of the shortlisted Ideas: 26th September 2020

Terms and conditions:
By registering to participate in the event, the participants acknowledge and agree to the following terms and conditions:

- Only students of JUIT can participate in the VICHARANA 2020.
- There is no registration fee.
- A team can consist of a maximum of 3 members (An individual is also allowed). Each team must have one leader with whom all the communication will be done in future. Team leader will submit the details of his team and details of the idea through google form.
- A participant can be a part of only one team. Participation in more than one team will lead to cancellation of his candidature.
- A team can submit idea on one theme only. Submission on multiple ideas is not allowed.
- Idea should be unique and it should not be copied from anywhere.
- Each team has to submit the Idea in PDF format and the file should not contain more than 1000 words. Writeup should include answers to the following questions:

- ○ Why is it important to solve the problem?
  - ○ What has already been done by others globally to solve the problem?
  - ○ What solution is proposed by the team?
- There will be two rounds:
  - ○ In the first round each idea submitted will be screened by the panel of Judges on the basis of the writeup submitted. e-Certificates will be provided to the members of all the shortlisted teams.
  - ○ In the second round shortlisted teams will be asked to present their idea in front of the panel through googlemeet. Tentative date for the second round will be 7 days after the declaration of the results of the first round.
- Best idea under each theme will be awarded with e-certificates and the cost of development of the prototype will be reimbursed to the winning team subject to the limit of Rs 10,000/-. Winning Teams can buy the components required to develop the prototype of their idea and the bills submitted will be reimbursed with the approval of the Faculty mentor allotted to the winning team. 50% of the winning amount can be reimbursed during the development phase and remaining 50% will be given only after the assessment of the working prototype of the idea by the organising team. Maximum of six months will be given to develop the prototype. If it takes longer then the approval will be required from the organising committee for extension under some extraordinary condition. Extension of maximum of one month can only be given. After that the event will be closed.
- Teams who will successfully demonstrate the working prototype of their idea will be encouraged for an e-yantra event at IIT Bombay and/or for Smart India Hackathon 2021.
- Successful teams will also be encouraged to submit their idea in the business proposal format in Himachal Pradesh CM's startup scheme through TIEDC, JUIT.

Google form link for registration: https://tinyurl.com/y5e8e7ez

Organising Team:

Dr. Nishant Jain	Dr. Vikas Baghel	Dr. Harsh Sohal	Prof. Ashish Kumar
Assistant Professor	Assistant Professor	Assistant Professor	Professor
Department of ECE	Department of ECE	Department of ECE	Department of CE

RAGHAV KUMAR <raghav.kumar@juitsolan.in>

FIT INDIA - 10000 STEPS WALKATHON

1 message

RAGHAV KUMAR <raghav.kumar@juitsolan.in>   12 November 2021 at 15:48
To: 2018 Batch <2018batch@juitsolan.in>, 2019 Batch <2019batch@juitsolan.in>
Cc: "Prof. (Dr.) Rajendra Kumar Sharma" <rk.sharma@juitsolan.in>, Rakesh Bassi <registrar@juitsolan.in>

Dear Students

AN EARLY MORNING WALK IS A BLESSING FOR THE WHOLE DAY

Fit India Campaign Club of JUIT is organizing a 10000 steps walkathon on **14th November,2021 (Sunday) at 6:50 AM** from the main gate of JUIT. All are requested who are in the VICINITY of the campus should participate in this activity.
The Walkathon route will be outside the campus (main gate to domehar and back).

Date - 14th November,2021 (sunday)
Time - 6:50 AM
Venue - JUIT Main Gate

Regards
Raghav Kumar
Sports Coach
Jaypee University of IT
Waknaghat, Solan, HP.
Mobile- 8962198932
Office- 01792239334

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%

Date	Time	Speaker	Topic				
		(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/Etosha 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	**Excellent (71%);** **Very Good (26%);** **Good (3%)** Based on a 5 point scale rating system (1- 5; [poor to excellent])

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

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 Lal, 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 Pragya Maam	Dr. Shweta and Lt. Pragya Gupta
5	191038@juitsolan.in	Devansh Gupta	Feedback form collection and maintaining attendance sheet	Dr. Vikas
6	191004@juitsolan.in	Pragya Tiwari	Hosting all 10 Sessions with Shweta Maam and Pragya Maam	Dr. Shweta and Lt. Pragya Gupta
7	191028@juitsolan.in	Ritika tiwari	Reporting of sessions 3 & 4 for website and social	Dr. Vikas & Dr. Shweta

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

Total of 240 Registrations were received from across the globe.

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

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

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

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

The Department of Electronics and Communication Engineering and Department of CSE/IT, JUIT, Solan hass 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 Johhanesburg, IIT Bombay, IIT Rookee, NIT Raipur, NIT Srinagar, IIIT 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.
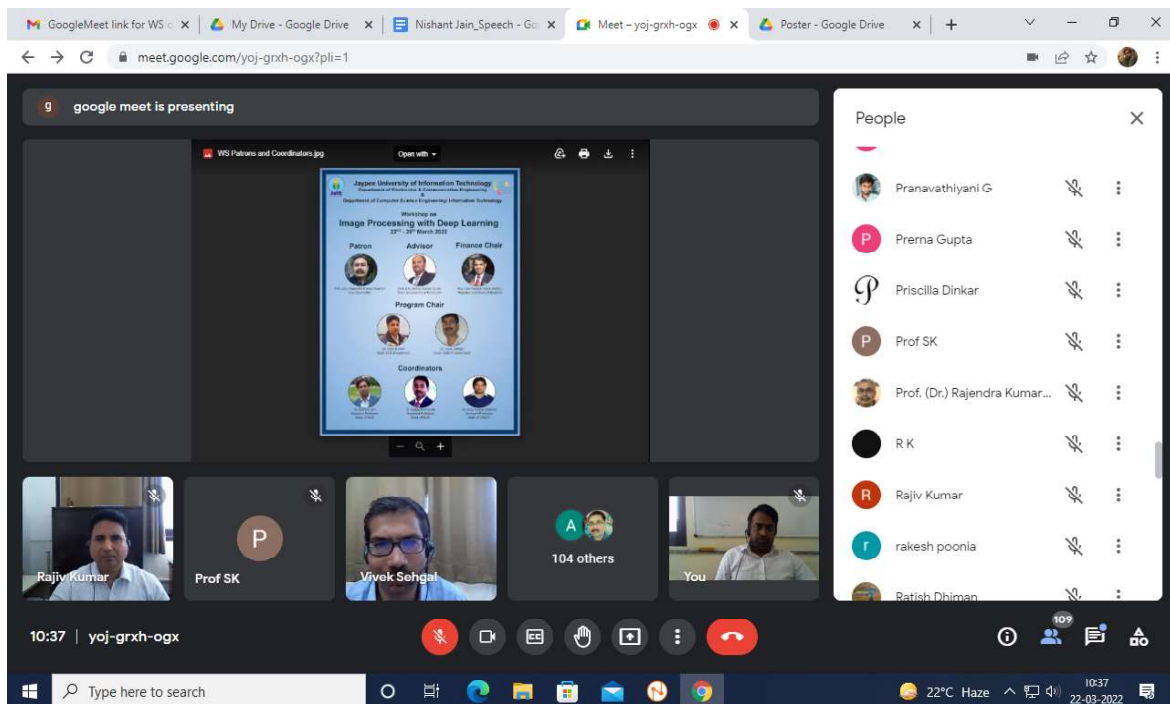
Dr. Nishant Jain, Assistant Professors in ECE, JUIT ; Dr. Emjee Puthooran, Assistant Professors in ECE, JUIT and Dr. Vipul Kumar Sharma, Assistant Professors in CSE/IT, JUIT were the coordinators for this workshop.

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 **22nd March** **(Tuesday)**	10:30 - 11:00	Inauguration	
	11:00 - 12:00	**Lecture:** Introduction to Image Processing and its Applications **Keynote Speaker**: Dr. Nishant Jain, Assistant Professor, Department of ECE, JUIT	**https://youtu.be/Ekfzeta3T8I**
	12:00 -13:00	**Lecture:** Deep Learning for Computer Vision **Keynote Speaker**: Dr. Subrahmanyam Murala, Associate Professor, Electrical Engineering Department, IIT Ropar	**https://drive.google.com/file/d/1cOQhN5iUSgfH2Qa8vdHkNg1bzYriQ14g/view?usp=sharing**
	13:00	Lunch	
	14:30 -16:30	**Hands-on Session**: Implementation of Image Processing using Python. **Expert**: Dr. Nishant Jain, Assistant Professor, Department of ECE, JUIT	**https://youtu.be/7TxUQXD7w3w** **https://github.com/nishantjain86/Image-Processing**
Day 2 **23rd March** **(Wednesday)**	10:15 -11:15	**Lecture:** Feature Extraction Methods for the classification of images. **Keynote Speaker**: Dr. Nishant Jain, Assistant Professor, Department of ECE, JUIT	**https://youtu.be/wYZzpE1pPn0**
	11:15 - 11:30	Tea Break	
	11:30 -12:30	**Lecture:** Application of Deep Learning Networks on Medical Images. **Keynote Speaker:** Dr. Narendra D. Londhe, Associate Professor,Electrical Engineering Department, NIT Raipur	**https://drive.google.com/file/d/1tMgQNZehhXfzvYlgvM8Rnc3_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/wIEaHjqiflA 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/1jA2Ifsj0usLGdK3jwWlFf9ppOE9goX3S/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/1jA2Ifsj0usLGdK3jwWlFf9ppOE9goX3S/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_VyaWgBGPHBYqo_vAYCfm-rlfk/view?usp=sharing **Task1:** https://colab.research.google.com/drive/1ryes3HAgjhoxuHYhm1Z-CdN3oN3p7fEF?usp=sharing **Task2:** https://colab.research.google.com/drive/1h5ylt9cK6fDepo9XwE1NUToAIHNc0ons?usp=sharing **Task3:** https://colab.research.google.com/drive/1lKli0RZP1ZPtV9hP5Yct8kOZK1allmBg?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&ouid=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 -13:1 5	**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 -18:0 0	Trip to Shimla	
Day 5 **26th March (Saturda y)**	10:15 -12:3 0	**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_6d 4wau1vAwHHLEtivbIkbBRDeax5/view? usp=sharing** **https://drive.google.com/file/d/1mCcjZ pOvaSep4wny3f8Z0qLN_4ZiPoeJ/view ?usp=sharing** **https://drive.google.com/file/d/1ydE8M KqqHiyWvHDPsix4dRnc9eei8gXs/view ?usp=sharing** **https://drive.google.com/file/d/1yhcOk UGHFe2Qcy8tPhuxCRT8NQGJWCHd/v iew?usp=sharing**
	12:30 - 14:00	Valedictory followed by Lunch	

Jaypee University of Information Technology

IEEE JUIT STUDENT BRANCH — **acm** Chapter

Patron
Prof. (Dr.) R.K. Sharma, Vice Chancellor

National Level Two Weeks Workshop on "Growing Role of Machine Learning in Cyber-Security" in collaboration with IEEE and ACM (13th - 24th June, 2022)

Advisor
Prof. (Dr.) Ashok Kumar Gupta,
Dean (Academics & Research)

Program Chair
Dr. Vivek Sehgal, Head, CSE/IT Department

Finance Chair
Maj. Gen Rakesh Bassi (Retd.),
Registrar and Dean of Students

Coordinators
Dr. Monika Bharti , Asst. Prof, CSE/IT
Dr. Pankaj Dhiman, Asst. Prof, CSE/IT
Dr. Amit Kumar Jakhar , Asst. Prof, CSE/IT

Topics to be covered

Topics	Hands on Session
Introduction to Machine Learning & Its Lifecycle, Decision Tree Classifier	✓
Role of ML in Cyber Security Applications	✓
Role of Cognitive Warfare	✓
Role of Cyber Security in Social Networking	✓
Cyber-Security Forensic Analysis using Mininet Network Emulator	✓
Ransom-ware Attack and security protocol	✓
Support Vector Machine , Logistic Regression	✓
Secure Machine Learning ,Clustering & Classification	✓
Ensemble Modelling , Time Series based Analysis, Exploratory Analysis	✓

About JUIT

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

Objective of the Workshop

Machine Learning has become important as many organizations have been collecting massive amounts of domain-specific data, which can contain useful information about problems such as national intelligence, Cyber Security, and fraud detection. Cyber attacks are continuing to increase at an alarming rate, especially with the ever-increasing nature of cyber connectivity. Hackers target a wide variety of protocols and communication systems along with data ranging from servers and end-user machines to wireless and mobile networks. Security measurements are to be considered based on history. The logs can be used to analyze the threats. Modern Cyber Security solutions are mostly driven by Machine Learning to process big data quickly and accordingly spot suspicious activity very effectively and efficiently. The absence of active cyber defense and technically sound forensic methods may prevent administrators from making suitable decisions on time against threats like proving the identity of the guilty party, identifying the root vulnerability to prevent the future occurrence of a similar incident, and understanding the hackers' intention to attack.

 Cyber Security along with Machine Learning is emerging as an important discipline of Computer Science and Information Technology towards developing novel scientific approaches for collecting, processing, and analyzing the information retrieved from the systems affected by security incidents to generate conclusive descriptions.

Workshop will be conducted in both Offline and Online Mode. All the lectures will be delivered remotely by keynote speakers, whereas hands-on session will be conducted by experts in the Lab. All the sessions will be available through Google meet for the Online Participants.

 Registration Link: https://docs.google.com/forms/d/1CKWFxDp0InadH8ezLdfxT-7NI87DZ49rYuAMm9JAnx8/edit

For offline	Rs 8000/- (including Boarding & Lodging charges
For online	Rs 500/-
For In-House B.Tech & M. tech/ M.Sc./ Phd	Rs. 100/- & – Rs. 300/-
For Academician/Researchers/Industrialist	Rs. 500/-

Account Details:
Beneficiary Name: Jaypee University of information Technology
Current Ac no: 0427032100000010
IFSC Code: PUNB0637100
Branch Name: JUIT, Waknaghat

Register Here

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Eminent Expertise

Dr. Vishal Sharma
Lecturer, School of Electronics,
Electrical Engineering and Computer
Science
Queen's University Belfast, United
Kingdom

Dr. Venkateshwara Rao Kagita
Assistant Professor, Department of
Computer Science And Engineering,
National Institute of Technology,
Warangal - 506004, Telangana, INDIA

Prof. Maitreyee Dutta
Professor & Head
Dept. of Computer Science &
Engineering, NITTTR, Chandigarh

Dr. Nonita Sharma
Associate Professor , Department
of Computer Science and
Engineering,
National Institute of Technology,
Delhi

Mr. Balaji Venketeshwar
Chief Mentor – Cyber Defense
Faridabad, Haryana

Dr. Lokesh Chouhan
Assistant Professor, Department of
Computer Science And Engineering,
IIIT, Pune (India)

Dr. Prashant Kumar
Assistant Professor, Department of
Computer Science And Engineering,
National Institute of
Technology, Jalandhar

Mr. Nirmal Soni
(Founder Team-Hash),
Rajasthan

Dr. K. P. Sharma
Assistant Professor, Department of
Computer Science And Engineering,
National Institute of Technology,
Jallandhar

Dr. Amritpal Singh
Assistant Professor, Department of
Computer Science And Engineering,
National Institute of Technology,
Jalandhar

Dr. Sumit Badotra
Assistant Professor in the School of
Computer Science and
Engineering, Lovely Professional
University, Punjab

Dr. Nitin Arvind Shelke
Assistant Professor, Department of
Computer Science and Engineering,
Bennett University, Delhi

Coordinators

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Computer Science And Engineering ,
JUIT, Waknaghat
Solan

Dr. Pankaj Dhiman
Assistant Professor, Department of
Computer Science And Engineering ,
JUIT, Waknaghat
Solan

Dr. Amit Kumar
Assistant Professor, Department of
Computer Science And Engineering ,
JUIT, Waknaghat
Solan

Jaypee University of Information Technology

Department of Computer Sc. & Engg/Information Technology

organizing

Workshop on Data Analytics and its Research Perspectives

(6th- 11th June 2022)

Patron
Prof. (Dr.) R.K. Sharma, Vice Chancellor

Advisor
Prof. (Dr.) Ashok Kumar Gupta,
Dean (Academics & Research)

Program Chair
Dr. Vivek Sehgal, Head, CSE/IT Department

Finance Chair
Maj. Gen Rakesh Bassi (Retd.),
Registrar and Dean of Students

Coordinators

Dr. Rajni Mohana, Associate Professor , CSE/IT
Dr. Aman Sharma, Asst. Prof, CSE/IT
Dr. Mrityunjay Singh, Asst. Prof, CSE/IT

Dr. Rakesh Kanji, Asst. Prof, CSE/IT

Topics to be covered

- Introduction to Data Analytics
- Hands-on Data Analytics using R/Python
- Big Data in Agriculture
- Hands-on session for building predictive modelling using agriculture dataset.
- Natural Language Processing
- Graph Mining
- Hands-on session for data visualization and analytics using graph mining tool
- Introduction to Autonomous Driving
- Hands-on session for real life application of autonomous driving (CNN)

Contact:

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About JUIT

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Objective of the Workshop

Data Analytics and its application in agriculture, natural language processing, graph mining and autonomous driving, and in many more. Due to very wide area of applications, it attracts students, researchers, educators and industrialist from different background like Electronics and Communication Engineering, Computer Science Engineering, Biotechnology and Bioinformatics Engineering and others. This workshop will help the participants working or intend to work in the area of agriculture, natural language processing, graph mining and autonomous driving. It will help the participants to explore the new dimensions for their academic and research activities. The main objectives of the workshop are:
- To provide the recent development in the areas of agriculture, natural language processing, graph mining and autonomous driving.
- To provide hands-on practice on Big Data in agriculture, natural language processing, graph mining and autonomous driving using Python and MATLAB.

Workshop will be conducted in both Offline and Online Mode. All the lectures will be delivered remotely by keynote speakers, whereas hands-on session will be conducted by experts in the Lab. All the sessions will be available through google meet for the Online Participants.

Registration Link: https://forms.gle/JBbVK5TgL8zrcFGR7

Sr. No.	Registration Type	FEES
1	ONLINE	Rs.500/-
2	OFFLINE	Rs.5000/-

REGISTER HERE

Jaypee University of Information Technology

Department of Electronics & Communication Engineering

and

Department of Computer Sc. & Engg/Information Technology

organizing

Workshop on Image Processing with Deep Learning

(22nd - 26th March 2022)

Patron
Prof. (Dr.) R.K. Sharma, Vice Chancellor

Advisor
Prof. (Dr.) Ashok Kumar Gupta,
Dean (Academics & Research)

Program Chair
Dr. Rajiv Kumar, Head, ECE Department
Dr. Vivek Sehgal, Head, CSE/IT Department

Finance Chair
Maj. Gen Rakesh Bassi (Retd.),
Registrar and Dean of Students

Coordinators

Dr. Nishant Jain, Asst. Prof, ECE
Dr. Emjee Puthooran, Asst. Prof, ECE
Dr. Vipul Kr. Sharma, Asst. Prof, CSE/IT

Topics to be covered

- Image Processing and Deep Learning Networks.
- Classification of Images using Deep Learning Network.
- Introduction to CNN Models for Image Processing.
- Applications of Deep Learning and Image Processing in the area of Medical Images, Satellite Images, Forensic Image Analysis, and Image Compression..
- Hands-on sessions on Image Processing using Python and MATLAB.
- Hands-on sessions on Deep Learning Networks using Python.
- Hands-on sessions on CNN Models using Python.

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Objective of the Workshop

Deep Learning networks on Image Processing finds its application in biomedical, forensic science, remote sensing, agriculture, and in many more. Due to very wide area of applications, it attracts students, researchers, educators and industrialist from different background like Electronics and Communication Engineering, Computer Science Engineering, Biotechnology and Bioinformatics Engineering and others. This workshop will help the participants working or intend to work in the area of computer vision, biomedical engineering, forensic analysis, remote sensing images and telemedicine. It will help the participants to explore the new dimensions for their academic and research activities. The main objectives of the workshop are:
- To provide the recent development in the areas of biomedical engineering, forensic analysis, remote sensing images and telemedicine.
- To provide hands-on practice on image processing and deep learning using Python and MATLAB.

Workshop will be conducted in both Offline and Online Mode. All the lectures will be delivered remotely by keynote speakers, whereas hands-on session will be conducted by experts in the Lab. All the sessions will be available through googlemeet for the Online Participants.

There are no charges to attend the workshop in online mode. Participants willing to attend in offline mode need to pay Rs. 5,000/- for 5 days accomodation & Mess Charges in the University. Offline participants have to follow the Covid protocols. e-certificates will be given to the attendees with more than 80% attendance.
Free Registration, visit: https://tinyurl.com/JUITWSDIP

Contact:
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Engineering, JUIT

Examination Foreign Language(German)date 07/05/2018

SN	ROLL NO	NAME	CertificateReceived by
1	141015	Shivangi Sud	Absent/Not Certified
2	141097	Shruti	Absent/Not Certified
3	141310	Rishav Sapahia	Absent/Not Certified
4	141327	Harshit saini	Absent/Not Certified
5	141666	Akash Sharma	Absent/Not Certified
6	141806	Aakriti	Absent/Not Certified
7	141811	Nitin	YES
8	141836	Mansi Arora	Absent/Not Certified
9	141846	Archita Johari	Absent/Not Certified
10	141851	Vedika	YES
11	151005	Anish Vijan	YES
12	151066	Gundeep	YES
13	151088	Manikya	YES
14	151093	Arpit Rituraj	YES
15	151102	Akshit Sharma	YES
16	151103	Gauri Sharma	Absent/Not Certified
17	151212	Himank	Absent/Not Certified
18	151222	Anmol Mahajan	Absent/Not Certified
19	151226	Sahil	YES
20	151242	Saksham Thakur	Absent/Not Certified
21	151265	Anshul Chauhan	Absent/Not Certified
22	151300	siddharth malik	YES
23	151346	Sakshi	YES
24	151354	Sahil Rana	YES
25	151370	Rishu verma	Absent/Not Certified
26	151511	Mritunjay	Absent/Not Certified
27	151827	Rashika Dhar	Absent/Not Certified
28	151842	Saveena Solanki	YES
29	151845	ANUBHAVI	YES
30	161066	Ritankshee	Absent/Not Certified
31	161070	Rushmika singh	YES
32	161217	Suchetan Pathania	YES
33	161234	Tapasya	YES
34	161241	Parth verma	YES
35	161376	Saurabh Thakur	YES
36	161454	Himanshu Gupta	YES
37	161456	Shubham Garg	YES
38	161458	Shailesh Mishra	YES
39	151298	Siddhesh	YES
	Total		22