

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/Etoshha 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	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 Wajnaghat

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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Modelling: Creating model objects, Properties and specifications, Supports, etc.
22/09/20	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Overview of the IS Codes: Limit state design as per IS 800:2007 – part 1
25/09/20	<ul style="list-style-type: none"> • Overview of the IS Codes: Limit state design as per IS 800:2007 – part 2 Features available in STAAD.Pro
26/09/20	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Interpretation of the results – Statics check, deflected shape, mode shapes, etc.
01/10/21	<ul style="list-style-type: none"> • Understanding the basics of Structural Dynamics from the perspective of earthquake engineering and wind engineering – Features available in STAAD.Pro
02/10/21	<ul style="list-style-type: none"> • Design - Steel design and Concrete design in STAAD.Pro – Understanding of each design parameter and its impact on the design
03/10/21	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Examples RCC buildings – Starting from geometry creation to design of main elements
05/10/21	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Current Practices 	
11:00-01:00PM	Dr. Amardeep	Different Test for <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Without Waste Material • With Waste Materials 	
19/11/20 Third Day			
10:00-11:00PM	Dr. Aakash Gupta	Flexible Pavement <ul style="list-style-type: none"> • Methods of Construction • Current Practices based on utilization of different waste materials 	
11:00-01:00PM	Dr. Aakash Gupta	Live Test on <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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

<i>Types of Participants</i>	<i>Total No. of Registered Participants</i>
HPPWD Assistant and Junior Engineers	20
Other Participants	60

Feedback of the Participants

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

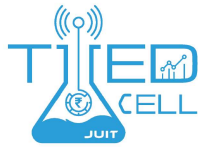
With Regards

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