Report

Six Day Online Workshop on

"Mix-Design Methodology for Concrete and Bitumen"

A six day online workshop on "Mix-Design Methodology for Concrete and Bitumen" was organized by the Department of Civil Engineering. The program was organized from 2nd September 2019 to 7th September 2019 (6 Days). The workshop was designed for the Academicians/Engineers and Engineering students to give an exposure to the new innovative ideas and current sustainable construction practices in Civil Engineering in order to make them familiar to mix design method for flexible and rigid pavement.

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. Pankaj 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

First Day					
10:30-11:10 AM	Prof. Ashok Kumar Gupta	Inaugural Lecture			
		High Tea			
11:30-1:30 PM	Mr. Abhilash Shukla	Concrete Mix Design: Overview			
		Lunch			
02:30-05:00PM	Mr. Tanmay Gupta Mr. Jaswinder	Casting of Concrete Mix-Design Samples of Various Strengths (Concrete Lab) • Mix-Design Cubes of Standard Sizes • Split Tensile Testing Cylinder of Standard Sizes			
	Second Day				
09:00-10:20 AM	Mr. Abhilash Shukla	Introduction to Cement and its Testing Methodologies			
High Tea					
10:40-12:30 PM	Mr. Tanmay Gupta Mr. Jaswinder	Cement Lab Testing: Normal ConsistencyInitial and Final Setting Time			
		Lunch			
02:00-05:00 PM	Dr. Pankaj Kumar Mr. Jaswinder	 Cement Lab Testing Continued: Specific Gravity of Cement Compressive strength of Cement Tensile strength of Cement Soundness of Cement 			
	,	Third Day			
09:00-10:20AM	Dr. Pankaj Kumar	Concrete Matrix and its Constituents			
	High Tea				
10:40-12:30 PM	Dr. Pankaj Kumar Mr. Jaswinder	Concrete Matrix Lab Testing:			
	Lunch				
02:00-05:00 PM	Dr. Pankaj Kumar Mr. Jaswinder	 Concrete Matrix Lab Testing Continued: Specific Gravity of Coarse Aggregate Flakiness Index and Elongation Index of Coarse Aggregate Impact Abrasion Test Workability Tests on Concrete 			
Fourth Day					
09:00-10:20 AM	Dr. Amardeep	Bitumen Grading, Properties and Mix Design in Pavement Construction: Methodological Different Specifications for Bitumen Mix Design Discussion			

	High Tea				
10:40-12:30 PM	Dr. Amardeep Mr. Jaswinder	Bitumen Lab Tests: Introduction to Different Graded Bitumen Penetration Test Softening Point Test			
		Lunch			
02:00-05:00 PM	Dr. Amardeep Mr. Jaswinder	Bitumen Lab Tests:			
Fifth Day					
09:00-10:20 AM	Dr. Saurabh Rawat	Specification for Proctor and CBR Method as Per BIS			
High Tea					
10:40-12:30 PM	Dr. Saurabh Rawat Mr. Itesh Kumar Singh	Optimum Moisture ContentDry DensityProctor Test			
	Lunch				
02:00-05:00 PM	Dr. Amardeep Mr. Jaswinder	CBR TestBitumen Mix Design			
Sixth Day					
09: 00- 11:30 AM	Mr. Aakash Gupta	Specification of IRC 37 for Pavement Design • Benkelman Beam Deflection Test			
		High Tea			
11:30-12:30PM	Dr. Pankaj Kumar Mr. Tanmay Gupta Mr. Jaswinder	Concrete Sample Testing (Strength Assessment) Cement Sample Testing (Strength Assessment)			
12:30-01:00 PM	Dr. Amardeep Dr. Pankaj Kumar Dr Tanmay Gupta	Feedback Session			
01:00-01:30PM	Prof. Ashok Kumar 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	25
Other Participants	50

Feedback of the Participants

Types of Participants	Total No. of Registered Participants
HPPWD Assistant and Junior Engineers	Excellent (80%)
(20)	Very Good (7%)
	Good (13%)
Other Participants (50)	Excellent (85%)
	Very Good (12%)
	Good (3%)

With Regards

Dr. Amardeep,

Program Coordinator

Department of Civil Engineering

Jaypee University of Information Technology Waknaghat