



One Day Webinar on

Hands on Design of Composite Beams



Organised by: **Centre of Excellence in Structural Engineering and Disaster Management (CESEDM), JUIT Waknaghat**

Date: 27/11/2021 (Saturday)

Time: 10:00 AM – 12:00 Noon

NO REGISTRATION FEE

Registration Link: <https://forms.gle/vHtMFWZcAsrgi8g2A>

The Google Meet link for the Webinar will be shared after successful registration.

Brief Overview of Composite Beams:

Steel-concrete composites are one of the most rapidly adopted structures, especially in cases where large clear spans are required with high strength to weight ratio. The formation of steel-concrete composites using individual steel and concrete elements needs an understanding of the independent behaviour of both components along with an insight on the possible interaction between the two. One of the most critical parameters of the design of composite sections is the design of the connection to unite steel and concrete. The objective of this webinar is to introduce the audience to the concept of Steel Concrete Composites and to enable them to carry out the design of composite beams.

Instructor: Dr. Pankaj Kumar, Assistant Professor, Civil Engineering Department, NIT Nagaland

About the Instructor: Dr. Pankaj Kumar is currently working as an Assistant Professor in Department of Civil Engineering at NIT Nagaland. He obtained his Doctorate (Ph. D.) and Masters (M. Tech.) from Malaviya National Institute of Technology Jaipur in Structural Engineering. Prior to joining NIT Nagaland, he served as an Assistant Professor (Senior Grade) at Jaypee University of Information Technology (JUIT), Waknaghat, Solan, Himachal Pradesh, India from July, 2018 to December 2019. He also worked as an Assistant Professor in Poornima Institute of Engineering and Technology Jaipur (September 2017 – July 2018). He has expertise in



development and execution of experimental test setup for large/full scale Reinforced Cement Concrete and Steel- Concrete Composite Structures. Dr. Kumar published four papers in SCI/SCIE/Scopus journals and present and publish three papers in international conferences. He successfully completed one externally sponsored Research and Development Project funded by The Institution of Engineers (India) as a Principal Investigator. He also involved as a team member in various consultancies projects of Structural Design, Proof Checking of Buildings and Bridges, Mix design of concrete and testing of Reinforcement bars.

About CESEDM: Centre of Excellence in Structural Engineering and Disaster Management has been functioning as an inter-disciplinary body at JUIT Wagnaghat with a vision of creating and disseminating intellectual resources aimed at improving the overall quality of built environment, primarily focused at disaster risk assessment, reduction and management ensuring life safety within economic, physical, social, cultural, and environmental constraints.

About the Department of Civil Engineering: Civil Engineering Department in JUIT was established in 2003. It is running three full time PG programmes (Structural Engineering; Construction Management; Environmental Science & Engineering) along with UG programme in Civil Engineering. In addition, Ph.D. degree is offered in the areas of Geotechnical Engineering, Structural Engineering, Construction Management, Hydropower Engineering, Environmental Engineering and Water Resources. The department has the state of art facilities for pursuing various R & D activities. The Department is actively engaged in providing consultancy services and training program to different government and private sector in and around Himachal Pradesh.

About JUIT, Wagnaghat: Jaypee University of Information Technology, Wagnaghat is set up by Act No. 14 of 2002 vide extraordinary gazette notification of Government of Himachal Pradesh dated May 23, 2002. Approved by the UGC under section 2(f) of the UGC Act, vide letter no. F.9-10/2002(CPP-I) dated 09 December 2002. At present, UG & PG courses are being offered in Bioinformatics, Biotechnology, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Electronics & Computer Engineering and Information Technology. The University is offering Ph.D. in Bioinformatics, Biotechnology, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Humanities & Social Sciences, Mathematics and Physics & Materials Science.