The Faculty

Prof. Venkatesh Kodur

Dr. Venkatesh Kodur is a Professor and Chair person in the department of Civil & Environmental Engineering and also serves as Director of the Center on Structural Fire Safety and Diagnostics at the Michigan State University (MSU). His research has focused on the experimental behavior and analytical modeling of structural systems under extreme fire conditions, Constitutive modelling of material properties at elevated temperatures, developing guidelines for fire resistance design of structural systems, Evaluating fire performance of high performing materials, Performance based fire safety design, Failure investigations. He has published over 300 peer-reviewed papers in international journals and conferences in structural, material and fire resistance areas. He is serving as Associate Editor of Journal of Structural Engineering and Journal of Structural Fire Engineering, Chairman of ASCE Standards Committee on Fire Resistance, Chairman of ACI-TMS Committee 216 on Fire Protection and a member of EPSRC (UK) College of Reviewers. Dr. Kodur was part of the FEMA/ASCE Building Performance Assessment Team who studied the collapse of WTC buildings as a result of September 11 incidents.

Dr. Virendra Kumar

Dr. Virendra Kumar is an Associate Professor in the Department of Civil Engineering, NIT Jamshedpur. His research interest includes fire resistance of reinforced concrete structures, structural dynamics, earthquake resistant structures, structural health monitoring of structures, concrete technology, development of new cementitious materials, durability of structures. He has 19 years of academic experience. He has published many research papers in peer reviewed journals and national and international conferences.

Dr. B.K.Prasad

Dr. B. K. Prasad is an Associate Professor in the Department of Civil Engineering, NIT Jamshedpur. His research interest is Polymer modified concrete, fibre reinforced concrete, structural behaviour of polymer modified concrete under cyclic loading and concrete technology. He has published many research papers in peer reviewed journals and national and international conferences. He has 21 years of teaching experience.

About NIT Jamshedpur

National Institute of Technology, Jamshedpur, earlier known as Regional Institute of Technology was established on 15th August 1960 as a joint venture of Government of India and the Government of Bihar in the chain of REC's (Regional Engineering College) in India with the aim to generate technical graduates of highest standards who could provide technological leadership to the region. It was among the first eight Regional Engineering Colleges (RECs). This was the only REC in the country which was named as RIT (Regional Institute of Technology). Therefore RIT Jamshedpur was actually the REC of undivided Bihar & Jharkhand. On 27th December 2002 RIT Jamshedpur was converted to National Institute of Technology, Jamshedpur with the status of a Deemed University as per the decision of, MHRD, Govt. of India. The Institute has 12 departments including engineering, science and humanities. The Institute, with 200 faculty, 4000 students, 150 administrative and supporting staff, is a self-contained campus. The institute also offers M.Tech, Ph. D., Non-Formal B. Sc. Engineering Programme and MCA programmes.

Organizing Committee

Patron

Prof. Y. P. YADAV

Director, NIT Jamshedpur

GIAN Coordinator(s)

1. Dr. Virendra Kumar
   Associate Professor, Dept. of Civil Engg.

2. Dr. B.K. Prasad
   HOD, Deptt of Civil Engg..

Please send the application form to:

Dr. Virendra Kumar

Department of Civil Engineering
National Institute of Technology Jamshedpur
Phone: +91-9431330642, 7004800355
Email: adsfnitjsr @gmail.com
http://www.nitjsr.ac.in/

GOVERNMENT OF INDIA
MINISTRY OF HUMAN RESOURCE DEVELOPMENT

GIAN
GLOBAL INITIATIVE OF ACADEMIC NETWORKS

An International GIAN Course on Analysis and Design of Structures in Fire

(ADSF – 2017)

October 09-13, 2017

Course Coordinator(s)

Dr. Virendra Kumar
Dr. B. K. Prasad

Organised by

Department of Civil Engineering
National Institute of Technology Jamshedpur
Jamshedpur- 831014 (Jharkhand), India

OVERVIEW

Structural fire safety is the upcoming generation in the development of resilient built environment. The civil engineering professional has been developing from the traditional prescriptive design approach for fire safety towards performance based design approach. Analysis and design based on Performance based approach offers better level of fire safety for individual structural components. Also, it ensures the overall structural safety. It may also help to reduce the cost of fire protection. Significant research has been conducted in this area in the last couple of decades in the world as well as India. However, the state of art and practice has fallen behind in taking advantage of the latest research. The objective of this course is to introduce engineering professionals to the challenges of structural fire safety and familiarize them with fundamental concepts analysis and design of engineering tools. Special attention will be paid to the latest developments so that more people are motivated to conduct research in the area of structural fire safety.

Course Objectives

The primary objectives of the course are as follows:

Basic Course on Design and Analysis of structures exposed to fire. To understand the behavior of structural systems and materials under the fire effects. To gain an educational & comprehensive experience on fire resistance design concepts. To learn basic fire safety design issues. To apply rational design methodologies for fire resistance design. Recommended for graduate students and professionals in Civil/Mechanical/ Architectural Engineering disciplines interested in learning basic concepts of fire design and analysis of structures.

Course Content

Importance of Fire Safety & Effect of Fire on Materials and Structures, Fire Safety Objectives, Fire resistance & Case Study, Flashover Fires & Time-Temperature Curves used in Structural Design, Evaluation of Fire Resistance, Standard Fire Tests & Calculation Methods, Behaviour of Reinforced concrete Member/Structures in Fire, Behaviour of Steel and Composite Structures.

Accommodation

The participants will be provided accommodation on payment and availability basis.

Who can apply

Faculty from an academic Institution or Student (B.Tech./M.Tech./PhD), Professionals in Civil/ Mechanical/ Architectural Engineering, Scientist from research organization/consultants, Fire safety Engineer/Officer

Registration fee:

Participants from abroad:	US $500
Industry /Govt. Dept./Consultancy firms :	Rs. 5000/-
Academic/Research Organisations:	Rs. 4000/-
Students/ Research Schalor:	Rs. 1000/-

The course registration fee is to be paid by DD (issued from any nationalized bank) in favour of Director, NIT Jamshedpur Payable at SBI, NIT Branch (Code: 1882), Jamshedpur.

Venue

Computer Centre, NIT Jamshedpur

General Information:

The above fee include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility.

The participants will be selected on first-come –first serve basis up to a maximum of 50 participants. The registration form, complete in all respects, duly forwarded by the Head of the Institute/Department accompanied by demand draft of requisite amount and covering letter should reach on or before 6th October, 2017. For further details visit www.nitjsr.ac.in or please contact the course coordinators.

A Gian Course on
Analysis and Design of Structures in Fire
(ADSF – 2017)
October 09-13, 2017

Registration Form

(Photo copies/Soft copies can also be used or down load from www.nitjsr.ac.in)

1. Name: _____
2. Designation:_____
3. Department:_____
4. Organization:_____
5. Address for Correspondence:_____

   _____

   Email:_____

   Phone no:_____

   Fax no: _____
6. Highest Qualification:_____
7. Experience: _____
8. Accommodation required (Tick): YES/NO
9. DD Particulars:_____

   Amount:_____

   Date:_____

   DD. No:_____

10. Signature of Applicant:_____

11. Sponsorship & Signature of Competent Authority with date & Seal:_____