

# Refresher Course on EARTHQUAKE RESISTANT DESIGN OF BUILDINGS

Starting from 26<sup>th</sup> August 2017

**Venue** : PHD Chamber of Commerce & Industry, PHD House, 4/2 Siri Institutional Area, August Kranti Marg, New Delhi 110016

**Time** : 09:00 AM to 01:15PM; Tea Break (11:00 am to 11:15 am)

**Duration** : Total Lecture Hours : 28 (14 lectures of 2 Hours each)

**Course Coordinator**– Mr. S. C. Mehrotra\*

Lecture No.	TOPICS	TENTATIVE FACULTY(subject to their confirmation)	DATE
<b>Lecture 1</b> 09 AM to 11:00 AM	Understanding Dynamics, Free vibration (Frequencies and Mode Shapes)	Dr Vasant Matsagar, <i>Associate Professor, IIT Delhi</i>	26 <sup>th</sup> August 2017
<b>Lecture 2</b> 11:15 AM to 01:15 PM	Forced Vibration – response to Dynamic Loading : Harmonic Loading & earthquake Loading	Dr Vasant Matsagar, <i>Associate Professor, IIT Delhi</i>	26 <sup>th</sup> August 2017
<b>Lecture 3</b> 09 AM to 11:00 AM	Concepts of Equivalent Static Method, Dynamic Analysis by Response Spectrum Method and Time History Method	Dr D K Paul*, <i>Retd. Professor, IIT Roorkee</i>	02 September 2017
<b>Lecture 4</b> 11:15 AM to 01:15 PM	Impact of IS 1893 (Part 1) – 2016 and IS 13920 – 2016 on Geo-technical Aspects including Liquefaction Potential	Prof Mahesh Tandon*, <i>Managing Director, Tandon Consultants Pvt Ltd</i>	02 September 2017
<b>Lecture 5</b> 09 AM to 11:00 AM	Salient Features of Latest IS 1893 (Part 1) – 2016 Code	Mr Vipul Ahuja, <i>CEO &amp; Director, Ahuja Consultants Pvt Ltd</i>	09 September 2017
<b>Lecture 6</b> 11:15 AM to 01:15 PM	Salient Features of Latest IS 13920 – 2016 Code	Ms. Alpa Sheth*, <i>Managing Director VMS Consultants Pvt Ltd</i>	09 September 2017
<b>Lecture 7</b> 09 AM to 11:00 AM	Principal and Methodologies of Earthquake Resistant Design	Dr. Yogendra Singh*, <i>Professor &amp; HOD, EQ Engg. Department, IIT Roorkee</i>	16 <sup>th</sup> September 2017
<b>Lecture 8</b> 11:15 AM to 01:15 PM	Performance Based Seismic Design of Structures	Dr. Yogendra Singh*, <i>Professor &amp; HOD, EQ Engg. Department, IIT Roorkee</i>	16 <sup>th</sup> September 2017
<b>Lecture 9</b> 09:00 AM to 11:00 AM	Modelling, Analysis & Design, of a Building as per IS 1893 (Part 1):2016 & IS 13920 – 2016 using a software.	Mr. S. C. Mehrotra* & Mr. Gyanendra Sharma Mehro Consultants	23 <sup>rd</sup> September 2017
<b>Lecture 10</b> 11:15 AM to 01:15 PM	Modelling, Analysis & Design, of a Tall Building as per IS 1893 (Part 1):2016 & IS 13920 – 2016 using another softwares.	Mr. S. C. Mehrotra* & Mr. Gyanendra Sharma Mehro Consultants	23 <sup>rd</sup> September 2017
<b>Lecture 11</b> 09 AM to 11:00 PM	Clarifications to Questions Regarding IS 1893 (Part 1) :2016 and IS 13920 : 2016 (Part 1)	Prof C. V. R. Murty*, <i>Director, IIT Jodhpur</i>	7 <sup>th</sup> October 2017
<b>Lecture 12</b> 11:15 AM to 01:15 PM	Clarifications to Questions Regarding IS 1893 (Part 1) :2016 and IS 13920 : 2016 (Part 2)	Prof C. V. R. Murty*, <i>Director, IIT Jodhpur</i>	7 <sup>th</sup> October 2017
<b>Lecture 13</b> 09 AM to 11:00 AM	Use of different softwares		14 <sup>th</sup> October 2017
<b>Lecture 14</b> 11:15 AM to 01:15 PM	Special Topics & Discussions		14 <sup>th</sup> October 2017

\* - Member of the IS 1893 Codal Committee.