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Registration Fee

Free

IMPORTANT DATES

Last date for Registration : **12-12-2020**

Intimation of selection : **13-12-2020**

WHO CAN APPLY?

Faculty and Research Scholars from AICTE approved institutions can register. Selected participants will be informed through mail. Selection is based on first-come-first-serve basis.

HOW TO APPLY

The applicants should fill the Registration Form through Google Forms using below link

A test will be conducted at the end of the program and joint certificates shall be issued (by AICTE & conducting institute) to those participants who have attended the program and have scored minimum 60% marks in the test.

Also, course material (2 textbooks) will be sent to 40 registered participants based on the performance in the test and who maintain more than 80 % attendance in the course

REGISTRATION LINK

<https://forms.gle/84CSr4niZ1tJHUri6>



AICTE – Sponsored

**TWO-WEEK ONLINE
FACULTY DEVELOPMENT PROGRAM
(FDP)**

on

**SEISMIC AND WIND
LOADS ON BUILDINGS
AND APPLICATIONS OF
ETABS AND ANSYS
FLUENT**

14th – 26th December, 2020

Organized by

**DEPARTMENT OF CIVIL
ENGINEERING**

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(Autonomous)

CBIT, established in the Year 1979, has developed in Four Decades of its journey, as one of the Premier Engineering Institute in INDIA, in Telangana State. The Institute offers Eleven UG and Eleven PG Programs into which Brilliant and Meritorious Candidates with good EAMCET Rank are seeking admissions at CBIT. CBIT Students are prepared and perfected holistically to secure Placements in reputed National and Multi-National Industries. Alumni, nearly 25,000 Graduate Engineers, are successfully placed in their Careers and as Entrepreneurs Globally. The Institute has been granted Autonomous Status from the Academic Year 2013-14 onwards.



ABOUT THE DEPARTMENT

The Department of Civil Engineering was established in the year 1979 with the inception of the Institute. The department offers a Four-Year Bachelor's Degree Program in Civil Engineering and Two-Year Master's Degree. In there are

about 500 Students pursuing Bachelor's Degree and 50 Students pursuing Master's Degree in the department. Many of the faculty members hold higher degrees from reputed institutions from India like IITs, NITs, IIITH and state universities and abroad. The department of civil engineering has three missions such as excellence in teaching and research; relevance to industry and society; and contribution to sustainable development. The department is well equipped with state-of-the-art laboratories to cater the needs of teaching, R&D and consultancy. The faculty of the department strive hard to impart the latest technical knowledge to the students and conduct quality research. The faculty offer technical services on live engineering problems to various government and private organizations

ABOUT THE FDP

With the heights of the buildings continuously on the rise and the increased frequency of the occurrence of earthquakes and cyclonic storms, the process of lateral load estimation has become a very important component of structural analysis. This necessitates the structural engineering faculty gain sound knowledge in the field, and to transfer it to the students. Though Earthquake engineering has gained a lot of importance, wind engineering on the other hand has not got its due. Hence the necessity arises to introduce wind engineering and computational fluid dynamics. The proposed programme besides dealing thoroughly with earthquake engineering would make an effort to impart introductory knowledge in Computational Fluid Dynamics (CFD), which is an emerging area in the field of wind engineering.

The department has the required softwares like ETABS, ANSYS FLUENT etc., available and the participants will get good exposure to these softwares.

COURSE CONTENT

- Introduction to Engineering Seismology
- Structural Dynamics
- Equivalent Static Method, Response Spectra Method
- Time History Analysis – Linear & Non-Linear
- Pushover Analysis
- Vibration Control Techniques
- Seismic Retrofitting
- Review of Wind Loads
- Introduction to Computational Fluid Dynamics
- Application of CFD to Structures
- Review of relevant codes

OBJECTIVES

- To make the participants acquire good conceptual knowledge in the fields of Earthquake engineering and Wind Engineering
- To introduce Computational Fluid Dynamics to the participants which enables them explore the research possibilities in the area.
- To make the participants well versed in the software applications of both earthquake engineering and wind engineering

RESOURCE PERSONS

Faculty from IIT'S, NIT'S, Universities, CBIT and other reputed institutions and Scientists from reputed organizations