Continuing Engineering Education Centre UET, Lahore

PROGRAMME

Insha'Allah

26th April 2018 (Thursday)

Event	Time (Hours)
Registration	0830 - 0900
Recitation from Holy Quran	0900 - 0905
Opening Remarks	0905- 0915
Introduction to 2D and 3D Analysis	0915 - 1030
Tea Break	1030 - 1100
Introduction to Computer Aided Analysis and Design	1100 - 1130
Analysis and Design in ETABS	11:30-12:30
Lunch/Prayer Break	1230 - 1330
Verification of Analysis Results	1330 -1430
Guidelines for slab and Footing Design	1430 - 1500
Tutorials/Practice	1500 – 1530
Closing/Certificate Distribution	1530 – 1600

University of Engineering and Technology, Lahore

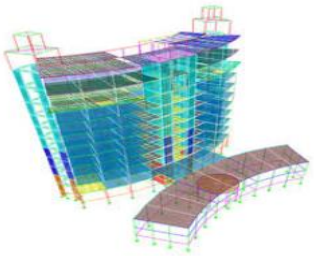
Continuing Professional Development (CPD)

A Workshop on

Introduction to Computer Aided Analysis and Design of Buildings

On

April 26, 2018 (Thursday)



2D~3D ANALYSIS, ETABS, Frame Structure, Slab and Footing Design Guidelines

Resource Person

Dr. Muhammad Irfan-ul-Hassan
Asstt. Prof., Director EQ Engg. Lab.
Civil Engineering Department

PURPOSE AND BACKGROUND

All working professionals including engineers require continuous up-gradation of their knowledge and skills to improve working competency and efficiency. University of Engineering and Technology Lahore has conceived a Continuing Professional Development Program for its growing community of professional engineers. A series of short courses and workshops, in addition to many other academic and professional activities, are now offered by UET on regular basis.

This workshop has been designed to enhance the knowledge of young professional about "Applications of computer aided analysis and design(CAAD) of structures in building design industry and academia". This course will mainly benefit the early career professional who see their future in building design.

The CAAD part is not thoroughly covered at the undergraduate level as compared to theoretical design of buildings and thus it is very important to equip young engineers with this very useful analysis and design tool.

CPD TITLE:

Introduction to Computer Aided Analysis and Design of Buildings

OBJECTIVES:

Introducing young engineers to the significance of Computer Aided Analysis and Design, Discussing basics of CAAD.

MAIN CONTENTS:

1) A Brief Introduction to CAAD
2) 2-D and 3-D Analysis difference
3) Forces, Deformations, Reactions, Loadings (Gravity, EQ, and wind loadings)
4) Modeling multistorey buildings in ETABS
5) Analysis and Design of frames and areal elements in ETABS.
6) Verification of Analysis Results
7) Practice/Tutorials on CAAD

TARGET PARTICIPANTS:

Junior Civil Engineers,
Structural engineers,
Architectural Engineers
Structural engineering students

SPECIAL FEATURE:

❖ **A certificate of one CPD point will be awarded to the participants.**

WHO SHOULD ATTEND?

-Beginners working in the Field of analysis and design and detailing of buildings or willing to work in the design of structures.
- Students

- *For practicing tutorials bring your LAPTOP with ETABS/SAFE installed*

COURSE VENUE:

Computer Lab, Civil Engineering Department

COURSE FEE:

Rs 3000/- (For Professional Engineers)
Rs 1500/- (For Faculty and Teachers)
Rs 1000/- (For Students)

REGISTRATION PROCESS

Application Form dully filled along with required documents and Fee in the form of Pay Order/ Bank Draft in favour of "PEB Coordinator" or online payment to Habib Bank Limited, UET Branch, **A/C No. 01287902267903** should reach on or before **26-04-2018.**

For more information, Contact:

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The related information can also be found on the website

http://www.ceec.uet.edu.pk/

PROFILE OF RESOURCE PERSONS

Dr. Muhammad Irfan-ul-Hassan is serving as Assistant Professor and Director Earthquake Engineering Lab. at the Department of Civil Engineering, UET Lahore. He completed his PhD in Civil Engineering (*Testing and Computational modelling of concrete*) from Vienna University of Technology, Austria. Dr Irfan-ul-Hassan has a strong background in design of structures and computer aided analysis and design of multistorey buildings. His research interest includes Analysis and design of structures, testing on concrete materials, multiscale modelling. He has reviewed and designed a lot of masonry structures, multistorey concrete frame structures, industrial buildings, water tanks and treatment plants. He also possesses a lot of research and teaching experience in Pakistan as well as in Austria.