

About GUC

The German University in Cairo is an independent, nonprofit oriented Egyptian private institution, founded by the presidential decree in 2002, and managed by a consortium of Germans and Egyptians with the vision of building a leading center of excellence in teaching and research that will effectively contribute to the general welfare nationally and internationally and endeavor the scientific, technical, economic and cultural cooperation between Egypt and Germany. It is the first integrated German university outside Germany that has 3 Bologna cycles: B.Sc., M.Sc. and Ph.D. of 71 programs, aiming to integrate academia, research, and industry for the best practices model of education. In 2007, GUC inaugurated the first Industrial Park linked to education and research in Africa and the Middle East. In 2012, GUC established The Berlin campus in the heart of Berlin City, to facilitate the transfer of not only the German know-how but also European technical knowledge to the GUC international calibers.

About Civil Engineering Program

The Civil Engineering Program was established in 2009, degree offered by the Faculty of Engineering and Materials Science Faculty. Our vision is to provide a prominent and internationally recognized learning environment for the students, researchers, and faculty interested in diverse fields of Civil Engineering. The Civil Engineering Program owns one of the most current and comprehensive computer-based and experimental clusters of civil engineering labs. All labs are outfitted with popular and advanced civil engineering software, highly developed analog & digital field measurement instruments, as well as, state of the art lab engineering testing equipment. The Civil Engineering Program, as with the case with all academic programs offered by the GUC; has high caliber faculty members selected from national and international academic professionals.



Contact Us

Attn: Prof. Dr. Nayer A. El-Esnawy
 Head of Department and Professor of Structural Engineering
 The Civil Engineering Program, Room D1-326
 Faculty of Engineering and Materials Science

The German University in Cairo
 Main Entrance of Al Tagamoa Al Khames
 New Cairo City, Egypt
 Tel: +20-2-7589990-8 Ext.:1382 Fax: +20-2-7581041
 e-mail: nayer.elesnawy@guc.edu.eg



Faculty of Engineering and Materials Science

Civil Engineering Program

E U R O 2 0 1 5

First Workshop on
The Eurocodes for Building Design

5th to 7th April, 2015

Workshop Objectives

This first workshop Euro2015 aims to introduce the philosophy of the Eurocodes in structural analysis and design, as well as to provide knowledge and practical skills about the main features, standards and procedures for designing different structural members of buildings according to the Eurocodes. In particular:

- EC0; Basis of Structural Design
- EC1; Actions on Structures
- EC2; Design of Concrete Structures
- EC3; Design of Steel Structures
- EC7; Geotechnical Design
- EC8; Seismic Design

Who Should Attend

Structural engineers, academics, consultants, civil engineering students, researchers, code-policy makers, contractors and Industry professionals

Registration Details

Registration fee is 500 L.E. per participant. It includes workshop material, lunch, and tea/coffee breaks for the entire 3 days of the workshop. Please contact us by email to confirm your participation and seat reservation by 31st of March, 2015. Limited seats will be available for this event.

Workshop Language

English language is the language of the workshop. Also, all workshop material will be in English.

Workshop Program

Day 1, Sunday 5th of April

Registration and Opening Session

Prof. Dr. Balthasar Novak

- Session 1: Introduction to the Eurocodes;
- Session 2: Design of Concrete Structures
- Lunch Break
- Session 3: Design of Concrete Structures
- Session 4: Design of Concrete Structures

Day 2, Monday 6th of April

Prof. Dr. Ahmed El-Ghazouli and Dr. Amr Shaat

- Session 1: Design of Steel Members
- Lunch Break
- Session 2: Seismic Design Principles
- Session 3: Seismic Design Principles

Day 3, Tuesday 7th of April

Dr. Khalid Abdel-Rahman Barakat

- Session 1: Overview of EC7 & Partial Safety Factor
- Lunch Break
- Session 2: Design of Foundations
- Session 3: Design of Retaining Walls

Organizing Committee

Prof. Dr. Ibrahim El-Dimeery, Dean of Graduate Studies
 Prof. Dr. Moustafa Baraka, Program Director
 Prof. Dr. Nayer El-Esnawy, Head of Department

Dr. Mona Badr, Associate Professor
 Dr. Amr Shaat, Associate Professor
 Dr. Badr Abouzeid, Assistant Professor

Workshop Lecturers

Prof. Dr. Balthasar Novak - The University of Stuttgart

Prof. Novak, Founding Dean of the Civil Engineering Program at the GUC is a Professor on Concrete Structures at the University of Stuttgart. He studied at the Technical University in Darmstadt where he also got wrote his doctoral degree (title: Crack width limitation of prestressed concrete girders under combined thermal actions and loads). He is member of different national and international committees dealing with actions on bridges and other structures and the design of concrete structures and concrete bridges. Further more he is the head of a consulting office near Frankfurt/Main, Germany. His actual focus in the field of research is: design of bridges, development of bridge management Systems, earthquake resistant design, reinforcing elements using carbon fibres and the effect of the predicted climate change on R.C. Structures.

Prof. Dr. Ahmed El-Ghazouli - Imperial College London

Professor Ahmed Elghazouli is Head of Structural Engineering at Imperial College London. He has more than 25 years' experience in externally-funded research and specialist consulting work worldwide, and has held full-time and visiting posts in several institutions in Europe and elsewhere. His main research interests are related to the response of structures to extreme loading, focusing on the areas of structural earthquake engineering, structural fire engineering and structural robustness. He has produced over 200 international publications in related areas and has made significant contributions to Eurocode development activities. Professor Elghazouli is a Chartered Practising Engineer. He is a Fellow of the Institutions of Civil and Structural Engineers (CEng, FICE and FStructE), past Chairman of the Society for Earthquake and Civil Engineering Dynamics (SECED) and UK National Delegate to the International and European Associations for Earthquake Engineering (IAEE and EAEE).

Dr. Khalid Abdel-Rahman Barakat - Leibniz University of Hannover

Dr. Khalid Abdel-Rahman Barakat, graduated 1986 from AinShams University, Faculty of Engineering. In 1990 he went to University of Hannover in Germany where he got his master degree (1993) in Geotechnical Engineering (general Grade: "Excellent"). Then he worked at Institute for Mechanics and Structural Mechanics (IBNM) till 1996. Afterwards he started his PhD at university of Dortmund, Department for Geotechnical Engineering. His PhD was finalized in 1999. (General Grade: "Excellent"). In 2001, he joined the institute for Geotechnical Engineering at Leibniz University of Hannover as lecturer. Right now he is the deputy head at the same Institute. He is working in different research fields (Numerical modeling wind energy foundations, Water structures and Tunnels). He published more than 50 publications and supervised almost 45 B.Sc. and M.Sc. Theses.

Dr. Amr Shaat - The German University in Cairo

Dr. Amr Shaat obtained both his B.Sc. and M.Sc. degrees from Ain Shams University. He received his Ph.D. in 2007 from Queen's University, Canada. Dr. Shaat has a wide experience in both the academic and engineering consulting levels. Dr. Shaat has published more than 30 peer reviewed research papers in international journals and conferences, with a research focus on the analysis, design and construction of steel and composite materials. He serves also as a reviewer for several international journals. Dr. Shaat has worked as a senior structural engineer and a group leader in multi-national consulting firms. Dr. Shaat has participated in updating the Oman Highway Design Manual and General Specifications for Roads and Bridges. He is also a certified professional engineer for the design of high rise buildings (unlimited license) in the United Arab of Emirates since 2011.