



UNIVERSITY OF CAPE TOWN

2-Day Courses on Eurocode Design of Concrete & Steel Structures

EC2: Eurocode Design of Concrete Structures

CPT: 13 & 14 Sep 2018: Southern Sun Newlands Hotel, Main Road, Newlands 7701

JHB: 17 & 18 Sep 2018: Protea Balalaika Sandton Hotel, 20 Maude Street, Sandton 2196

DBN: 20 & 21 Sep 2018: Southern Sun North Beach Hotel, 83/91 Snell Parade, Durban 4001

ECSA Validation Number: UCTEC2-18 (Two CPD credits)

Presenters: Prof. R.S. Narayanan (UK); Prof. A. Zingoni (South Africa)

EC3: Eurocode Design of Steel Structures

JHB: 22 & 23 Oct 2018: Protea Balalaika Sandton Hotel, 20 Maude Street, Sandton 2196

DBN: 25 & 26 Oct 2018: Southern Sun North Beach Hotel, 83/91 Snell Parade, Durban 4001

CPT: 29 & 30 Oct 2018: Southern Sun Newlands Hotel, Main Road, Newlands 7701

ECSA Validation Number: UCTEC3-18 (Two CPD credits)

Presenters: Prof. F.S.K. Bijlaard (The Netherlands); Prof. A. Zingoni (South Africa)



As part of its 2018 programme of short courses for the professional development of engineers in industry, the Structural Engineering & Mechanics Group at the University of Cape Town is pleased to announce the following 2-day courses on the Structural Eurocodes, which may be attended in either Johannesburg, Cape Town or Durban. Both courses are accredited with ECSA, and full attendance attracts 2 CPD credits per course.

Why the Eurocodes are Important

The biggest development in codified structural design that the world has seen in recent times is probably the introduction of the Structural Eurocodes, which have been implemented across the countries of the European Union, replacing the previous national standards, and also adapted in several other countries across the world. There are 10 Eurocodes covering: basis of structural design; loadings on structures; design of concrete,

steel, steel-concrete composite, timber, masonry and aluminium structures; geotechnical design; seismic design. The Eurocodes are generally considered to be the most technically advanced suite of structural design codes in the world today.

The majority of the South African structural design codes were largely based on the British Standards (BS), and with the gradual withdrawal of these over the past 4 years, the need has arisen to shift the basis of our design standards towards the Eurocodes. In this regard, the South African Loading Standard, SANS 10160, has been revised to be compatible with Eurocode design philosophy, making it easier for designers to make use of the material-specific, geotechnical and seismic Eurocodes, should they wish to do so. A decision has already been made to adopt Eurocode 2 for the design of concrete buildings, though a national annex may still need to be developed in this regard. Some of the major infrastructure associated with the 2010 FIFA World Cup in South Africa were designed using the Eurocodes. While the Eurocodes require a considerable amount of effort to learn, they offer the advantage of technical comprehensiveness, and often result in more economical designs, at the same time empowering structural engineers to practise internationally.

Who Should Attend

The forthcoming Eurocode courses will be of interest to all engineers concerned with the design of all types of structures in concrete and steel. Structural and civil engineers from consulting practices, the construction industry, municipal authorities, state-owned companies and government departments are all welcome. The courses will be particularly valuable to engineers wishing to work in other countries where Eurocodes are already in use (e.g. the Middle East), and to companies wishing to increase their international design competitiveness. The courses will be relevant for all levels of professional development, from recent engineering graduates and candidate engineers, to registered professional engineers, senior engineers and directors.

Outcomes

At the end of the course, participants will be thoroughly familiar with the Eurocode system of design standards, understand Eurocode design philosophy, and be able to use the Eurocodes to design buildings and other structures in concrete and steel. They will be able to appreciate the main differences between the Eurocodes, the British Standards and the equivalent South African design standards, and be better informed as regards the merits of each for a variety of situations.



Presenters



Professor F.S.K. Bijlaard (The Netherlands) will be the Guest Presenter for UCTEC3: Eurocode Design of Steel Structures. He is currently Professor of Steel Structures at Delft University of Technology. His particular areas of specialisation are the stability of steel structures and the behaviour of joints in steel structures. He has been Chairman of CEN (European Standards Body) Committee TC250/SC3, which has been responsible for all the structural Eurocodes on steel. Professor Bijlaard was also the Chairman of the ECCS (European Convention on Constructional Steelwork) Technical Committee

TC10 on Structural Connections, and also served as Chairman of the Dutch Steel Society. Before he retired, he was Head of the Department of Structural Engineering at Delft University of Technology. He has authored numerous publications and reports, and given many lectures, short courses and seminars on the Eurocodes in various countries, including South Africa.



Professor R.S. Narayanan (UK), CEng, FEng, FConsE, FStructE, will be the Guest Presenter for UCTEC2: Eurocode Design of Concrete Structures. He has been closely involved with the development of the Eurocodes over the past 25 years. He has been Chairman of CEN (European Standards Body) Committee TC250/SC2, which has been responsible for all the structural Eurocodes on concrete. Professor Narayanan has sat on a number of committees of the British Standards Institution, including that which was responsible for BS 8110 (Structural Use of Concrete). He has authored a number of books and manuals on Eurocode 2, and was also the chairman of the committee which drafted the

“Green Book” for BS 8110 and ENV EC2 (Manuals for RC Building Structures) produced by the Institution of Structural Engineers. He has given Eurocode lectures, short courses and seminars across the world, including Europe, Russia, the Middle East, China, India, Malaysia, South Africa and Namibia. Professor Narayanan is a Fellow of the Royal Academy of Engineering, a Visiting Professor at the University of Leeds, and a consulting structural engineer with over 40 years of experience. He is currently a consultant to Clark Smith Partnership, London.



Professor A. Zingoni (South Africa), PrEng, CEng, PhD, DIC, FSAAE, FIABSE, FStructE, is the Convenor of the courses. A former Head of the Department of Civil Engineering at the University of Cape Town, he leads the Structural Engineering and Mechanics Research Group at UCT. He holds MSc and PhD degrees in Structural Engineering from Imperial College London. His particular areas of research are shell structures, vibration analysis, and novel computational methods. He serves on numerous international scientific committees, has founded the International Conference on Structural Engineering, Mechanics & Computation (now held in Cape Town every 3

years), and authored (or edited) 10 books and numerous papers on various problems in structural mechanics. In 2016, the University of Cape Town honoured him for “original distinguished academic work”. He also takes keen interest in promoting the exchange of information between industry and academia. In 2007, he launched the UCT Eurocode seminars, an initiative aimed at “bringing the Eurocodes” to South Africa and familiarising local industry with the philosophy. A Chartered Engineer, Prof. Zingoni is a Fellow of the Institution of Structural Engineers, a Fellow of the South African Academy of Engineering, and a Fellow of the International Association of Bridge & Structural Engineering.



Registration

The registration fee for each course is R9,500-00 (all inclusive). This covers tuition by leading international speakers, comprehensive lecture notes (book + CD), lunches, teas, refreshments and a certificate of attendance on completion of a course. The certificate will show the ECSA validation number for claiming CPD points.

To book a place on the courses, the registration form (see Pages 5 & 6) must be completed and emailed or faxed back to the EBE Faculty via the contact details below. Submission via email is preferred (cc to the Convenor). The closing date for registration is **4 weeks** before the start of a course. However, the number of places on the courses is limited, and early registration is advised.

Contact Details

For Registration Enquiries:

Heidi Tait or Sandra Jemaar, CPD Programme
Faculty of Engineering & the Built Environment
University of Cape Town, Rondebosch 7701, Cape Town
Emails: ebe-cpd@uct.ac.za ; heidi.tait@uct.ac.za ; sandra.jemaar@uct.ac.za
Tel: 021 650 4922; Fax: 021 650 3082

For General Enquiries:

Prof. A. Zingoni, PrEng, CEng, PhD, FSAAE, FIABSE, FIStructE
Convenor: Eurocode Design of Concrete & Steel Structures
Professor of Structural Engineering & Mechanics
Department of Civil Engineering, University of Cape Town
Rondebosch 7701, Cape Town, South Africa
Tel: 021 650 2601; Email: alphose.zingoni@uct.ac.za



UNIVERSITY OF CAPE TOWN

Faculty of Engineering & the Built Environment

2-Day Courses on Eurocode Design of Concrete & Steel Structures

Johannesburg, Cape Town & Durban: September and October 2018

REGISTRATION FORM

| | | | |
|--|-----|--------|-------------------------|
| Surname: | | | |
| Full names (<i>as they appear on your ID or Passport</i>): | | | |
| ID or Passport Number: | | | |
| Name of Company/Organisation: | | | |
| Gender (<i>please tick</i>) : | M | F | |
| Disability (<i>please tick</i>): | Yes | No | If yes, please specify: |
| Postal address: | | | |
| Postal code: | | Email: | |
| Telephone: | | Cell: | |

A. Choice of Courses: In the table below, please tick against the course(s) required.

| | EC2: Eurocode Design of Concrete Structures (2.0 CPD Credits) | EC3: Eurocode Design of Steel Structures (2.0 CPD Credits) |
|---------------------|---|--|
| Cape Town | Thu 13 & Fri 14 Sep 2018 (2 Days) | Mon 29 & Tue 30 Oct 2018 (2 Days) |
| Johannesburg | Mon 17 & Tue 18 Sep 2018 (2 Days) | Mon 22 & Tue 23 Oct 2018 (2 Days) |
| Durban | Thu 20 & Fri 21 Sep 2018 (2 Days) | Thu 25 & Fri 26 Oct 2018 (2 Days) |

B. Registration Fees

The registration fee is **R9500-00** per course (all inclusive). This covers tuition by leading international speakers, comprehensive lecture notes (book + CD), lunches, teas, refreshments and a certificate of attendance on completion of a course. Registration for a course will only be confirmed upon receipt of payment.

C. Payment

Please note: Bank account details are different for Direct Transfers and Invoiced Payments.

Direct Transfer Payments (payment information for delegates not requiring an invoice):

Bank: Standard Bank
 Account name: UCT EBE CPD Program
 Branch and Code: Rondebosch 025009
 Account Number: 270 654 275

It is essential that you use your full name as a reference when making this payment.

Invoiced Payments: If you require a **tax invoice** for a company payment please indicate this below.

Tax Invoice required: Yes No

If a tax invoice is required, you will be sent an SD004 form to complete. Please be aware that it takes about 3 weeks for the university to issue a tax invoice, and payment is expected on receipt of the invoice.

I am remitting the amount of R..... for attendance on ONE / TWO courses (**underline** the applicable) as indicated above.

Signature: **Date:**

Please return the completed registration form **and proof of payment** (if you have not requested an invoice) via email to the EBE Faculty: ebe-cpd@uct.ac.za for the attention of Heidi Tait, and copied to the Convenor of the Eurocode Courses: Professor A. Zingoni, Department of Civil Engineering: alphose.zingoni@uct.ac.za

Also sign and return Page 2 to accept the Terms and Conditions.

Terms and Conditions

1. On submission of this registration form, you will receive email confirmation that your registration form has been received. Please allow 5 days for this acknowledgement. If places have run out, you will receive notice of this and your name will go on a waiting list.
2. Closing date for registrations is **4 weeks** before the start of a course. However, the number of places on the courses is limited, and early registration is advised. Please note that registration comprises (i) the submission of the completed registration form and (ii) the payment of the due registration fee. Registration will only be confirmed after full payment has been received.
3. Any cancellation must be notified in writing at least 6 weeks prior to the start of a course, **or the full fee will be charged**. If the fee has been paid and registration is cancelled not less than 4 weeks before the start of a course, an administrative fee of 15% of the full registration fee will be charged for the processing of the refund.
4. Registration may not be cancelled after the closing date for registrations. Any registered person who does not arrive for a course will be recorded as absent, and no refund will be payable.
5. If a registered delegate cannot attend a course, another person from the same organisation may attend in his or her place as a substitute, provided the substitution is notified at least 2 days before the course starts, and subject to approval by the Convenor.
6. A Certificate of Attendance will only be issued if payment has been received in full. The certificate will be issued in the name supplied on the registration form, and will show the ECSA validation number for claiming CPD points. Certificates will only be handed out at the end of the course. If a substitute attends the course in place of a registered delegate, the certificate will be issued to the substitute.
7. UCT reserves the right to take legal action to recover the full fees payable, and to recover the costs incurred as a result of such action.
8. UCT reserves the right to cancel a course if the number of registrations received is not sufficient to make the course viable. In such an event, any paid course registration fees will be refunded in full.

I have read and accept these terms and conditions

Signature:

Date: