



CENTRE FOR RENEWABLE AND SUSTAINABLE ENERGY STUDIES

## Wind Energy

(Certificate of Attendance)

**29 July – 3 August 2019**

**Department of Electrical Engineering, Room E207**

### Synopsis

This module deals with the harvesting of energy from wind. It addresses the availability of the resources, the types of systems and machines, their capabilities and limitations, the processes of setting up such systems and their associated costs and environmental impacts.

### Wind Power

Brief history, current state of industry and industry drivers. Predominant technologies and trends, theory of operation, electro-mechanical and aerodynamic principles. Fundamentals of power quality and grid integration. Wind energy project development: process and methodologies, including wind resource assessment. Feasibility factors such as energy capture calculation, environmental impact assessment, grid aspects and essential economics.

**No academic credits can be obtained by attending this course.**

### Who should attend

Engineers, technologists and technicians active in the energy sector. Architects, planners and developers. Government and local authority officials. Investors.

### Certification and Accreditation

The module has been registered with the Engineering Council of South Africa for Continuous Professional Development points. A Certificate of Attendance with an indication of the CPD points and level will be awarded to all participants who attend the full course from Monday morning to Saturday lunchtime.

### Venue and Time

This course will be presented at the Department of Electrical Engineering, Room E207 and will run from 08:00 to 17:00 on Mo-Fri, 29 July – 3 August 2018 and from 09:00 to 13:00 on Saturday 3 August 2018. Directions can be obtained from <http://www.ee.sun.ac.za/>.

### Travel and Accommodation

All travel arrangements are for your own account. Call the Stellenbosch Information Bureau on 021 883 3584 for accommodation near the university. You can request a list of available guesthouses from [crses@sun.ac.za](mailto:crses@sun.ac.za).

### Registration

The course is designed for a restricted number of attendees so as to personalise and maximise the learning experience. Bookings will be taken on a first come first served basis.

[Click HERE to register online](#)

**No registration is final until you have received a confirmation by email from Stellenbosch University.**

**Registrations close on Monday 15 July 2019.**

### Course Fees

- Course fee for the five and a half-day course: R10 800.00
- The registration form must be accompanied by a cheque made out to Stellenbosch University, or proof of a direct deposit to Stellenbosch University.
- **Cancellation of enrolment made up to and including Friday Monday 15 July 2019 will be subject to a 15% handling fee.** No refunds will be made after this date; however, substitutions will be accepted.
- Attendance without payment will not be permitted.
- In the case of unforeseen circumstances, Stellenbosch University reserves the right to cancel the course or change the lecturer with two weeks' notice, in which case all fees will be reimbursed in full on request.
- The course fee includes all study material, tea/coffee and lunches.

### Presenter

**Mr Gareth Erfort** is a lecturer at the Mechanical and Mechatronic Engineering department of Stellenbosch University. He previously worked for CSIR and spent 2 years abroad working on international civil engineering projects. He is completing his PhD thesis on in Vertical Axis Wind Turbines, utilising CFD and genetic algorithms.



Centre for Renewable and Sustainable Energy Studies



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