CENTRE FOR RENEWABLE & SUSTAINABLE ENERGY STUDIES

Wind Energy

Date: 20 – 24 July 2020

Venue: M223, Mechanical Engineering, Faculty of Engineering, Stellenbosch University, Stellenbosch

Registration: CLOSED

Course fees: R11 400

Presenter:

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

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science & innovation Department: Science and Innovation REPUBLIC OF SOUTH AFRICA

Eskom

ENGINEERING EZOBUNJINELI INGENIEURSWESE

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.

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 4 Continuous Professional Development points.
A Certificate of Attendance will be awarded to all participants who attend the full course.

Venue and Time

This course will be presented at the Department of Mechanical Engineering, Faculty of Engineering, Stellenbosch University and will run Mo-Fri from 08:00 to 18:00 from 20 – 24 July 2020. Directions can be obtained from crses@sun.ac.za or http://crses.sun.ac.za/contact-us

Travel and Accommodation

Accommodation and travel are for your own account. The Stellenbosch Information Bureau can be contacted at tel. 021 883 3584 for delegates who want to make their own accommodation arrangements. A list of available accommodation can also be obtained from crses@sun.ac.za.

Registration

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

Registration close: 6 July 2020

Course Fees

- Cancellations made up to and including 6 July 2020 will be subject to a 15% handling fee. No refunds will be made after this date; however, substitutions will be accepted.
- Payment is mandatory for attendance.
- In the case of unforeseen circumstances, Stellenbosch University reserves the right to cancel the course or change the lecturer, in which case all fees will be reimbursed in full, on request.
- The course fee includes all study material, tea/coffee, and lunch.

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