



# CENTRE FOR RENEWABLE & SUSTAINABLE ENERGY STUDIES

## Postgraduate Diploma in Engineering (Mechanical Engineering) in Renewable and Sustainable Energy Studies 2022

### Scope:

This postgraduate diploma (Pg Dip in Eng) is aimed at prospective students with a BTech/ Advanced Diploma in engineering or BSc degree who want to gain additional background in renewable energy with a strong emphasis on the sustainability of the resources and technologies. The programme consists of 8 postgraduate modules of at least 15 credits each normally on the 700 level + Professional Communication [0 credits]. Most of the modules are presented by the Faculty of Engineering and the Centre of Sustainability Transitions at Stellenbosch University, while two optional modules are presented at other South African Universities, where the credits obtained can then be transferred to Stellenbosch University.

This document should be studied in consultation with the **PG Schedule for 2022**.

### Modules:

The PG Dip (Mechanical Engineering) in Renewable & Sustainable Energy:

<b>Required Modules:</b>		
Renewable Energy Systems	714	<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a> <a href="#">Centre for Sustainability Transitions</a>
Renewable Energy Policy	771	
Professional Communication	771	
<b>Choose six:</b>		
Sustainable Development	771	<a href="#">Centre for Sustainability Transitions</a>
Project Economics & Finance	712	<a href="#">Department of Civil Engineering</a>
Hydro & Ocean Energy	744	<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a>
Wind Energy	744	<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a>
Advanced Photo Voltaic Systems	744	<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a>
Energy Storage Systems	774	<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a>
Long-term Power System Planning		<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a>
Overview of the Power Industry <sup>1</sup>		<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a>
Smart Grid Technology Overview	774	<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a>
Bioenergy	744	<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a>

***Prospective students should note that the modules offered to Pg Dip in Eng students will be revised every year, taking into account the fast-changing context of renewable and sustainable energy, and the availability of experts in these fields.***

Students may apply to the Postgraduate Coordinator for recognition of modules done at other departments or institutions. However, no recognition can be granted for modules done as part of another qualification. Three new modules offered for the first time in 2022 – module codes to be provided asap.

<sup>1</sup> This optional module is presented by UCT. Students interested in taking this module will need to register for it at UCT as an Occasional Student, and then present the credits obtained to Stellenbosch University for recognition via Ms Y Barendse (<mailto:ybarendse@sun.ac.za>)

### Duration:

One year full-time, or two years part-time (all students are registered as full-time students).

Revised: 20211207