

## DEPARTMENT OF MECHANICAL AND MECHATRONIC ENGINEERING

### MEng Structured (Mechanical)

#### Programme Outline 2022

**8 modules** [15 credits each = 120 credits] +  
**Project** [60 credits] +  
**Professional Communication** [0 credits]

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

*The Section in brackets next to the group refers to the section on the Departmental Application form.*

<b>Group 1:</b> (Sec 3.3)	Numerical Methods	<a href="#">Department of Mechanical &amp; Mechatronic Engineering</a>
<b>Group 2:</b> (Sec 3.6)	<b><u>2 of the following:</u></b> <ul style="list-style-type: none"> <li>Advanced Topics in Engineering Management</li> <li>Data Science</li> <li>Project Management</li> <li>Project Economics &amp; Finance</li> </ul>	<a href="#">Department of Industrial Engineering</a> <a href="#">Department of Industrial Engineering</a> <a href="#">Department of Industrial Engineering</a> <a href="#">Department of Civil Engineering</a>
<b>Group 3:</b> (Sec 3.4 & 3.5)	Research Methodology Professional Communication	<a href="#">Department of Mechanical &amp; Mechatronic Engineering</a>
<b>Group 4:</b> (Sec 3.4 & 3.6)	<b><u>4 of the following:</u></b> <ul style="list-style-type: none"> <li>Advanced Photo Voltaic Systems</li> <li>Bioenergy</li> <li>Energy Storage Systems</li> <li>Hydro &amp; Ocean Energy</li> <li>Long-term Power System Planning</li> <li>Overview of the Power Industry <sup>1</sup></li> <li>Renewable Energy Policy</li> <li>Smart Grid Technology Overview</li> <li>Solar Thermal Energy Systems</li> <li>Wind Energy</li> </ul>	<a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a> <a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a> <a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a> <a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a> <a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a> <a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a> Registration: UCT – <a href="mailto:denise.botha@uct.ac.za">denise.botha@uct.ac.za</a> <a href="#">Centre for Sustainability Transitions</a> <a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a> <a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a> <a href="#">Centre for Renewable &amp; Sustainable Energy Studies</a>
<b>Group 5:</b> (Sec 3.6)	Project (Mechanical) 60 credits	Topics: <a href="#">Department of Mechanical &amp; Mechatronic Engineering</a>

- Offering of modules are subject to availability.
- Module choices are subject to approval by the Programme Coordinator.
- Project Topics will be finalised via the Programme Coordinator once registered in 2022.
- <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 ([ybarendse@sun.ac.za](mailto:ybarendse@sun.ac.za))

Revised: 2021207