

MASTERS PROGRAMMES

A recent survey on members of the Southern African Institute for Industrial Engineers showed that a third of all Industrial Engineers have a postgraduate qualification. Thus, to be competitive in the job-market, postgraduate studies is one way to gain an advantage.

Masters Industrial Engineering (RESEARCH)

Industrial Engineering is a discipline of engineering dealing with the optimization of complex processes or systems. It is concerned with the development, improvement, implementation and evaluation of integrated systems of people, money, knowledge, information, equipment, energy, materials, analysis and synthesis, as well as the mathematical, physical and social sciences together with the principles and methods of engineering design to specify, predict, and evaluate the results to be obtained from such systems or processes.

Masters Data Science (STRUCTURED)

Data Science focuses on the development of innovative machine learning and optimisation techniques to produce novel, efficient and robust data science technologies, for use in Industrial Engineering and Engineering Management applications.

Data science techniques can be used on extremely large data sets to computationally reveal patterns, trends and associations, especially relating to human behaviour and interactions.

Masters Engineering Management (RESEARCH)

Engineering management often leads to a career that brings together the technological problem-solving abilities of engineering and the organisational, administrative, and planning abilities of management in order to oversee complex systems from conception to completion.

To illustrate this, technology management, as a sub-set of engineering management, is a specialised professional practice that captures technology-based innovation opportunities. It guides technological progress, assesses the potential of individual technologies and uses this potential to the benefit of business, society and the environment.

Masters Engineering Management (STRUCTURED)

The Masters Degree in Engineering Management (MEM) is a structured, module-based hybrid online masters degree in engineering management, specifically designed to prepare early to mid-career engineers of all disciplines and scientists to excel in their current roles, but also to build meaningful careers that will empower them to shape the future.

The curriculum is future-focused, innovative, industry-relevant and designed to suit the profile of the part-time student, wherever in the world the student may be. The MEM programme is hosted in the Department of Industrial Engineering.



FIND OUT MORE

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