Academic	Research Field	Description
Prof B Nleya	Optical Networks and Network Security	Energy-efficient networking, resources allocation and management in all optical networks as well as security and access control in IoT Enabled Networks.
Dr N Pillay	Applied Computational Intelligence	Application of artificial intelligence in process control, control loop optimization, nonlinear control and controller performance analysis for industrial control systems.
Dr N Singh	Bio-Engineering	Conscious control of the autonomic nervous system; understanding the central governor theory.
Mr KE Moorgas	Intelligent Systems	The merging of embedded systems with machine intelligence; includes topics such as machine learning, pattern recognition, image processing, computer and robotic vision, NLP and autonomous systems.
Mr R Sewsunker	Renewable Energy and Energy Efficiency using Distributed Intelligence	Specific focus on the emerging DC paradigm with current work on optimal control methods applied to DC nanogrids and microgrids. Other DC- related topics include optimised water pumping, intelligent lighting and smart metering.