**Power and Energy**

Electric power and energy is a key factor to every economic and societal prosperity across the world. Historically, the electric grid was designed to be relatively simple i.e., bulk amount of power generation from generating station transmitted over transmission network and delivered to loads. Over the years, electric power grid became very complex with addition of the renewable power generation, microgrids and active loads. The smart grid revolutionized the way electricity is delivered from suppliers to consumers and describes the next generation of power systems with fully digitalized computer-based remote control and automation incorporating communications and information technology. In the new context, the electricity grid is viewed as:

* Modelling and analysis of modern and future power and energy systems
* Theoretical developments in planning and operation of power and energy systems
* Computational intelligence-based data analysis for power and energy systems
* Integrated operation of information and communication technologies (ICT) in power and energy systems
* New components for future power and energy systems
* Sustainability assessment of power and energy systems