

	Module	Description	Host	Presented for CPD accreditation only	Presented for both academic and CPD accreditation
Overview	Overview of the Power Industry	A systemic view of the traditional and future electrical power industry within a broader societal energy context.	UCT		9 - 15 Mar 2022
	Smart Grid Technology Overview	Introduction to the key concepts of the Smart Grid, including information and communication technologies and their application and integration.	SU		7 - 11 Feb 2022
	Power system analysis	The fundamentals, models and applications of power system load flow, short-circuit analysis, stability and control.	WITS	1 - 7 Dec 2021	16 - 20 May 2022
Planning & Operations	Power System Asset Management	Strategic and tactical approaches to asset management principles and practices applied to a power system with increasing renewables.	UP		21 - 25 Feb 2022
	Power System Data Analytics	The data analytics life cycle applied to solve power system problems, with special focus on demand and renewable energy short-term forecasting.	SU	14 - 18 Feb 2022	30 May - 3 Jun 2022
	Long-term Power System Planning	The principles and techniques informing optimised long-term generation capacity planning, and transmission expansion planning.	SU	26 Jan - 1 Feb 2022	25 - 29 July 2022
	Distribution Customer Concepts	Understanding the concepts inherent in the end use of electricity, including load modelling, pricing, technologies, and mini- and microgrids.	SU		9 - 13 May 2022
	Distribution Network Planning and Operations	Distribution network technical planning fundamentals, codes and regulations, and applications, and protection and technical operations.	NWU	31 Jan - 4 Feb 2022	1 - 5 Aug 2022
	Power System Operations	The fundamentals of power system operations in a future with high shares of VRE, and the processes and technologies that support such operations.	SU	1 - 7 Dec 2021	4 - 8 Apr 2022
	Power System Flexible Operations	Operational power system flexibility optimisation where technical systems and electricity markets interact, and flexibly operating power plants.	UCT	24 - 30 Nov 2021	20 - 24 June 2022
	Advanced Photovoltaic Systems	Fundamentals, financial modelling, technical design, installation and maintenance of PV systems.	SU		11 - 15 Jul 2022
	Wind Energy	Fundamentals, resource and feasibility modelling, technical design, project development and grid-integration of Wind Energy systems.	SU		4 - 8 Jul 2022
	Energy Storage Systems	Fundamentals, applications, technologies, modelling and design, and economics of Energy Storage systems.	SU		5 - 9 Sep 2022
Technology	Solar Thermal Energy Systems	Fundamentals of solar thermal energy systems, specifically CSP, including concentrator principles and thermal storage applications.	SU		28 Mar - 1 Apr 2022
	Smart Grid Communications	Communications fundamentals, applications and technologies within the context of the power system.	SU		22 - 26 Aug 2022
	Bioenergy	The practical and commercial application of various technologies for biomass conversion into bio-energy, ranging from bio-fuels to electricity.	SU		6 - 10 Jun 2022
	Hydro and Ocean Energy	Ocean and hydro energy associated with the elevation or movement of water, including resources, conversion technologies, and implementation.	SU		1 - 5 Aug 2022
	Renewable Energy Systems	The scientific, engineering, resource and integration aspects of various types of renewable energy systems at introductory level.	SU		28 Feb - 4 Mar 2022