

Postgraduate Diploma (PGDip) (Chemical Engineering)

Programme credits: 120 | NQF Level 8 Qualification

This is a one-year, full-time qualification (enrolled from January – December along with the undergraduate academic schedule). Students enrol for and complete the compulsory modules and a minimum of four elective modules. Modules are selected in collaboration with a supervisor, based on the student's previous qualification, research interest, and future career plans.

PG Dip Module registered for	Module code	Module description	Semester presented
Compulsory modules			
Chemical Engineering 788	11606 788 (120)	Anchor module: Chemical Engineering	Anchor module
Mini-thesis 771	10883 771 (60)	Mini-thesis	Throughout year
Professional Communication 771	59447 771 (1)	Professional communication	Throughout year
Elective modules			
Choose minimum four modules from the list below (selected in collaboration with supervisor):			
Chemical Engineering			
Chemical Engineering 716	11576 716 (15)	Reactor Engineering I	1
Chemical Engineering 722	11576 722 (15)	Reactor Engineering II	2
Chemical Engineering 717	11576 717 (15)	Heat Transfer	1
Particle Technology 713	47902 713 (15)	Particle Technology	1
Chemical Engineering 711	11576 711 (15)	Thermodynamics	1
Chemical Engineering 723	11576 723 (15)	Mass Transfer Operations	2
Chemical Engineering 715	11576 715 (15)	Process Control	1
Chemical Engineering 721	11576 721 (15)	Process Modelling and Optimisation	2
Chemical Engineering D724	11576 724 (15)	Laboratory Training I	1
Chemical Engineering D771	41696 771 (15)	Laboratory Training II	2
Mineral Processing			
Mineral Processing 712	47988 712 (15)	Mineral extraction and separations	1
Mineral processing 725	47988 725 (15)	Fundamentals of mineral processing	2
Suggested complementary modules: Chemical Engineering 715 (Process Control) Chemical Engineering 771D (Laboratory Training II) Particle Technology 713 (Particle Technology)			
Bio-Energy Elective Modules			
Environmental Engineering 716	50431 716 (15)	Environmental Engineering	1
Chemical Engineering 718	11576 718 (15)	Bioprocess Engineering	1
Bio-energy 744	64904 744 (15)	Bioenergy	Block format (June/July)

Suggested complementary modules:

Chemical Engineering 715 (Process Control)

Chemical Engineering 723 (Mass Transfer Operations)

Chemical Engineering 721 (Process Modelling and Optimisation)

Additional elective module options

(To be selected at discretion, after consultation with supervisor.)

Project Management 713	51993 713 (15)	Project Management	Block format Hosted in Industrial Dept.
Renewable Energy Policy 771	11651 771 (15)	Renewable Energy Policy (Complementary to Bioenergy electives)	Block format Hosted in M&M Dept.
Sustainable Development 771	58718 771 (15)	Sustainable Development (Complementary to Bioenergy electives)	Block format Hosted in M&M Dept.