

MEng (Chemical Engineering) Structured

Focus area: Data Analytics

Module scheduling 2025

Year	Module	Code		Credits	Pre-requisite Co-requisite	Pre-reading start	Hybrid lecture block week		Post block end	Block week presentation mode	Department	Module lecturer(s)
1	Data Science (Eng)	14190	874	15	Pre-requisite: Programming 1st year university level or equivalent (enquire with DS lecturer)	24-Feb-25	10-Mar-25	14-Mar-25	25-Apr-25	F2F & online	Industrial Eng	Prof Mandla Gwetu
1	Applied Machine Learning	14022	874	15	Co-requisite: Data Sciences 774/874	17-Mar-25	31 Mar + 1 Apr 2025 14 Apr + 15 Apr 2025 29 Apr 2025		11-May-25	Online	Industrial Eng	Prof Andries Engelbrecht
1	Plantwide Dynamics and Control <i>Process Control 872</i>	10894	872	15		04-Aug-25	18-Aug-25	22-Aug-25	06-Oct-25	F2F & online	Chemical Eng	Prof Lidia Auret
2	Numerical Methods	36323	876	15		See information posted on SUNLearn	19-Mar-25 16-Apr-25	20-Mar-25 17-Apr-25	See information posted on SUNLearn	F2F & online	Applied Mathematics	Prof Nick Hale
2	Optimisation (Eng)	14020	874	15	Co-requisite: Data Sciences 774/874; AML 774/874	19-May-25	2 Jun + 3 Jun 2025 17 Jun + 18 Jun 2025 30 Jun 2025		13-Jul-25	Online	Industrial Eng	Prof Jacomine Grobler Dr Philip Venter
2	Data Analysis for Dynamic Processes <i>Data Analysis and Modelling 872</i>	10884	872	15	Pre-requisite: Applied Machine Learning 874 and Data Science (Eng) 874	29-Sep-25	13-Oct-25	17-Oct-25	See information posted on SUNLearn	F2F & online	Chemical Eng	Prof Tobi Louw
3	Advanced Topics in Engineering Management	11748	873	15		10-Feb-25	24-Feb-25	28-Feb-25	04-Apr-25	F2F & online	Industrial Eng	Prof Calie Pistorius Prof Sara Grobbelaar
3	Integrated Process Data Analysis <i>Data Analysis and Modelling 873</i>	10884	873	15	Co-requisite: Chemical Engineering Research Project 872		First semester (dates TBC)			F2F & online	Chemical Eng	Not presented in 2025
3	Chemical Engineering Research Project	10882	872	60		Orientation Feb	Individual contact sessions with supervisor throughout year.		See submission date on SUNLearn	Online	Chemical Eng	Individual supervisor