Mathematics 238 (WTW 238)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	16.00
NQF Level	06
Programmes	BEng (Mechanical Engineering)
	BEng (Chemical Engineering)
	BEng (Chemical Engineering) ENGAGE
	BEng (Civil Engineering)
	BEng (Civil Engineering) ENGAGE
	BEng (Computer Engineering)
	BEng (Computer Engineering) ENGAGE
	BEng (Electrical Engineering)
	BEng (Electrical Engineering) ENGAGE
	BEng (Electronic Engineering)
	BEng (Electronic Engineering) ENGAGE
	BEng (Industrial Engineering)
	BEng (Industrial Engineering) ENGAGE
	BEng (Mechanical Engineering) ENGAGE
	BEng (Metallurgical Engineering)
	BEng (Metallurgical Engineering) ENGAGE
	BEng (Mining Engineering)
	BEng (Mining Engineering) ENGAGE
Service modules	Faculty of Engineering, Built Environment and Information Technology
Prerequisites	WTW 256 and WTW 258 GS
Contact time	1 tutorial per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Mathematics and Applied Mathematics
Period of presentation	Semester 2

Module content

Linear algebra, eigenvalues and eigenvectors with applications to first and second order systems of differential equations. Sequences and series, convergence tests. Power series with applications to ordinary differential equations with variable coefficients. Fourier series with applications to partial differential equations such as potential, heat and wave equations.

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