

Module Title:	Mathematical Methods
Academic year:	2009 2010
Credit Value:	4
Pre- requisites:	Mathematics 2
Assessment	Continuous assessment (20%) Final exam (80%).
Aims	To provide the student with knowledge and practice in mathematical methods relevant to physical and inorganic chemistry.
Module Content	Matrices and Determinants Functions of Several Variables: Numerical Integration:
Intended Learning Outcomes: (September 2007)	Having successfully completed this subject, the student will be able to: <ul style="list-style-type: none"> ▪ Apply complex numbers and matrix methods to practical exercises in areas such as Quantum Chemistry and X-Ray spectroscopy. ▪ Use differential calculus techniques as applied to the equations of Thermodynamics and Kinetics ▪ Calculate integrals of trigonometric functions, and know how to approximate integrals which lack a precise analytical solution