

B.Sc. Analytical Science

CHEMISTRY Fundamentals of Analytical, Inorganic, Organic & Physical Chemistry	BIOLOGY Fundamentals of Biochemistry, Genetics, Ecology, Cell Structure & Microbiology	MATHEMATICS Fundamentals of Calculus, Complex Nos., Vectors, Matrices, Variables & Functions, Probability etc.	COMPUTING YR 1 Hardware, DOS, Introduction to Windows, Software Packages	COMPUTING YR 2 Visualisation and Validation of Laboratory Data with Spreadsheets	PHYSICS Fundamentals of Mechanics, Optics, Sound, Electricity & Atomic Physics
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CHEMISTRY Analytical, Inorganic, Organic & Physical Chemistry	BIOLOGY Biochemistry, Genetics, Ecology, Cell Structure, Microbiology	MATHEMATICS Calculus, Complex No.s, Vectors, Matrices, Variables & Functions, Probability	COMPUTING Computer Organisation, Programming Languages	APPLIED COMPUTING Digital Computers, Peripherals, Interfacing	PHYSICS Mechanics, Optics, Sound, Electricity, Atomic Physics
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CHEMISTRY OPTION Organometallics, Surface Chemistry, Molecular Re-arrangements, Heterocycles	BIOLOGY OPTION Metabolism, Environmental, Microbiology, Food Biochemistry & Analysis	ANALYTICAL SCIENCE – CORE Chemical Equilibria, Atomic Spectroscopy, Electroanalytical Chemistry, Immunology, Bioanalytical Chemistry, Sampling, Separation & Chromatography		STATISTICS – CORE Variance, Quality Control, Sampling	INSTRUMENTATION – CORE Optics, Electronics, Interfacing, Signal Processing
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LITERATURE SURVEY	RESEARCH PROJECT	ANALYTICAL SCIENCE – CORE Advanced Spectroscopy, Industrial Analysis, Analytical Microbiology, The Analytical Approach Special Topics, e.g.: Agricultural & Food Analysis, Pharmaceutical Analysis, Sensors Speciation, Forensic Analysis	CHEMISTRY OPTION Materials, Polymer Characterisation, Thermal Analysis	BIOLOGY OPTION Cell Biology, Genetics, Microbiological Cell Structure, Pharmacology
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