

<b>Module Title:</b>	Forensic Analysis
<b>Academic year:</b>	2009 2010
<b>Credit Value:</b>	5.0
<b>Pre- requisites:</b>	None
<b>Assessment:</b>	Continuous Assessment:                   30% Final examination:                           70%
<b>Aims</b>	<p>This module has been designed to provide the student with the knowledge of the principles separation systems including HPLC, GC and Capillary Electrophoresis and their hyphenated techniques. Emphasis will be placed on sample preparation and method development. It is also the aim of this module to provide the student with an understanding of the theory and instrumental operation of spectroscopic methods such as mass spectrometry and UV/Visible spectroscopy and the ability to perform structural identification of simple organics using mass spectrometry.</p>
<b>Module Content</b>	High Pressure Liquid Chromatography  Gas Chromatography  Capillary Electrophoresis  Mass Spectrometry  HPLC-MS and GC-MS  Sample Preparation

<b>Intended Learning Outcomes:</b> (September 2007)	Upon completion of this module the student will be able to: <ul style="list-style-type: none"><li>• Use a range of chromatographic, electrophoretic and spectroscopic systems.</li><li>• Apply the principles of chemical analysis for qualitative and quantitative determination of forensic samples.</li><li>• Apply the principles of method development and validation in HPLC and GC to achieve the results required.</li><li>• Describe the principle components and applications of mass spectrometry and its hyphenated techniques.</li></ul>
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