School of Chemistry

Aims and Objectives: Session 2023-2024, Semester 1

Module CH1301: The Impact of Chemistry

Course Title: Chemistry against Crime

Duration: 7 hours

Lecturer: Professor S. E. M. Ashbrook

Aims: To introduce fundamental chemical aspects of forensic chemistry, to

relate these to other areas and give a basic understanding of key

analytical methods.

Objectives:

1. To understand the key techniques used in analytical chemistry and the significance and assessment of data.

- 2. To outline chemical and biological aspects of blood alcohol and to examine analytical methods for breath and blood alcohol analysis.
- 3. To examine the chemical structures and characteristics of illegal drugs, methods for their detection, and the use of performance enhancing drugs in sport.
- 4. To review the structures and characteristics of the main types of explosives, propellants and fire accelerants in common use.
- 5. To consider the origin of colour and the materials used for inks, paints and dyes, and the implications for forgery.