

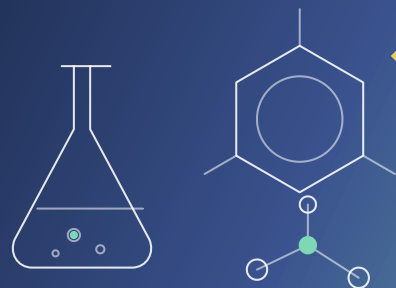
Module code

SEC-2401

Type of module

Undergraduate: Chemistry – Elective

Chemistry in Everyday Life



Modular credits

4

Total student
engagement

56 hours

Prerequisite

None

Anti-requisite

None

Aims

To apply and evaluate the chemical principles behind everyday materials, processes, and products. It promotes evidence-based reasoning and sustainability awareness in making informed decisions about the health, safety, and environmental impacts of chemical use.

Module learning outcomes (MLO)

On successful completion of this module, a student will be expected to be able to:

MLO 1

Analyse and illustrate key chemical principles underlying common household, food, and personal-care products encountered in daily life.

MLO 2

Analyse and compare how the chemical composition and structure of substances influence their function, safety, and sustainability.

MLO 3

Evaluate and justify the environmental, ethical, and health implications of chemicals used in modern consumer products and technologies.

MLO 4

Design and present an evidence-based communication linking chemical concepts to societal or sustainability issues.

MLO 5

Analyse and evaluate chemistry's role in promoting sustainable lifestyles and informed consumer choices.

Module contents

Introduction to everyday chemistry

Chemistry of the atmosphere and energy

Chemistry and the human body

Food chemistry and kitchen science

Cleaning products and household chemistry

Chemistry of personal care and cosmetics

Plastics, polymers, and materials

Everyday metals and technology

Assessment

60%

Examination

40%

Coursework

Examination
60%

10%

20%

10%

■ Examination — 60%

■ Assignment — 10%

■ Tests — 20%

■ Presentation — 10%

Formative assessment

Weekly discussions and feedback

Summative assessment

COMPONENT		WEIGHTING
Examination		60%
Coursework		40%
Individual		30%
Assignment		10%
Tests		20%
Group		10%
Presentation		10%

Graduate attributes and skills

University learning objectives (ULO) addressed

B Balanced & holistic individuals	E Ethical leaders	S Sustainable thinkers	T Transdisciplinary practitioners	A Adaptable & resilient lifelong learners	R Responsible global citizens	I Innovative problem-solvers
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B, S, T, R

Sustainability concept addressed

3	SDG 3 Good Health and Well-Being
4	SDG 4 Quality Education
12	SDG 12 Responsible Consumption and Production

Digital skills/software used (not limited to)

- Word processing software (e.g. Microsoft Word)
- Presentation tools (e.g. PowerPoint, Google Slides, Canva)
- Infographic and Design tools (e.g. Canva, Piktochart)
- Organisational tools (e.g. Outlook calendar)
- Online Collaboration platforms (e.g. Microsoft Teams, Zoom, Google Meet)
- LMS for Online Quizzes / Assignments (e.g. Canvas)

Micro-credentialling option No	Stackable towards GenBESTARI Undergraduate Degree Programme or other relevant Lifelong Learning Programmes No
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Document details

Office **ODVCE** Document date **27 June 2026** Status **New** Approval **GBF (12/02/2026)**