

MSc Programme Structure & Elective Courses

New Cosmetic Chemistry Stream effective from Cohort 2027/28 (Subject to Approval)

Award Credit Requirements (30 Credit Units Total)

Courses are categorized into Programme Core, Stream Core (Cosmetic Chemistry), and Elective (Group A, Group B, and Stream Elective).

1. Master of Science in Chemistry (non-Stream):

- 15 credit units of Programme Core courses
- 15 credit units of Elective courses (including at least 6 credit units from Group A)

2. Master of Science in Chemistry (Cosmetic Chemistry Stream):

- 15 credit units of Programme Core courses
- 6 credit units of Stream Core courses
- 6 credit units of Stream Elective courses
- 3 credit units of Common Elective courses (Group B)

1. Programme Core Courses (15 credit units)

Course Code	Course Title	Level	Credit Units	Remarks
CHEM6118	Advanced Chemical Instrumentation	P6	3	-
CHEM6119	Frontiers in Chemical Biology	P6	3	-
CHEM6121	Academic and Industrial Research, Development and Innovation	P6	3	-
CHEM6125	Selected Topics in Chemistry & Molecular Sciences	P6	3	-
CHEM6126	Advanced Seminar Series	P6	3	-

2. Cosmetic Chemistry Stream Core Courses (6 credit units)

Course Code	Course Title	Level	Credit Units	Remarks
CHEM6130	Cosmetic Product Development and Formulation	P6	3	Also an elective course for non-stream students
CHEM6135	Cosmetic Science Management and Evaluation	P6	3	Prerequisite: CHEM6130 (For Cosmetic Chemistry Stream ONLY)

3. Programme Electives (15 credit units)

Group A (At least 6 CUs) – For Non-Stream Only

Course Code	Course Title	Level	Credit Units	Remarks
CHEM6127	Dissertation	P6	14	-
CHEM6129	Advanced Directed Studies	P6	6	-

Group B – Common Electives (Non-Stream: Group A + B = 15 CUs; Stream: 3 CUs)

Course Code	Course Title	Level	Credit Units	Remarks
CHEM6114	Food Processing and Food Chemistry	P6	3	-
CHEM6123	Postgraduate Symposium	P6	1	-
CHEM6128	Environmental Health & Risk Assessment	P6	3	-
CHEM6130^	Cosmetic Product Development and Formulation	P6	3	Also a Stream Core course
CHEM6131	Frontiers in Modern Synthetic Chemistry	P6	3	-

Course Code	Course Title	Level	Credit Units	Remarks
CHEM6132	Frontiers in Sustainable Energy Conversion and Storage	P6	3	-
CHEM6133	Advanced Entrepreneurship Programme in Chemistry	P6	3	-
CHEM6134	AI for Chemistry	P6	3	-

[^] Note: Cosmetic Chemistry Stream students cannot select the same course as both a Core course and an Elective course.

Cosmetic Chemistry Stream Electives (6 credit units)

Course Code	Course Title	Level	Credit Units	Remarks
CHEM6136	Applied Cosmetic Project Studies	P6	6	For Cosmetic Chemistry Stream ONLY
CHEM6137	Cosmetic Internship/Placement	P6	3	For Cosmetic Chemistry Stream ONLY
CHEM6138	Selected Topics in Cosmetic Chemistry	P6	3	For Cosmetic Chemistry Stream ONLY

4. Important Notes for Cohort 2026 and After

Semester Schedule Overview

- All core courses are offered and must be taken in Semester A.
- Group B elective courses (except CHEM6130) are offered and taken in Semester B.

CHEM6127 Dissertation

- CHEM6127 Dissertation will be taken in Semester B and the Summer Term for full-time students.
- Students enrolling in CHEM6127 must meet a minimum CGPA requirement in Semester A and obtain prior approval from the course committee and Programme Leader. If the CGPA requirements in Semester A are not met or if the quota is full, students will be assigned to CHEM6129.



CHEM6129 Advanced Directed Studies

There are three possible durations:

- Semester A and B
- Semester B and the Summer Term
- Semester B only (with approval and a CGPA of 3.4 or above in Semester A)