

# MSc Programme Structure & Elective Courses

*Applicable to Cohort 2026/27 and Onwards*

## 1. Core Courses (15 credit units)

| Course Code | Course Title                                                 | Level | Credit Unit |
|-------------|--------------------------------------------------------------|-------|-------------|
| 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. Elective Courses (15 credit units)

### Group A (At least 6 credit units)

| Course Code | Course Title              | Level | Credit Unit |
|-------------|---------------------------|-------|-------------|
| CHEM6127    | Dissertation              | P6    | 14          |
| CHEM6129    | Advanced Directed Studies | P6    | 6           |

### Group B

| Course Code | Course Title                           | Level | Credit Unit |
|-------------|----------------------------------------|-------|-------------|
| CHEM6114    | Food Processing and Food Chemistry     | P6    | 3           |
| CHEM6123    | Postgraduate Symposium                 | P6    | 1           |
| CHEM6128    | Environmental Health & Risk Assessment | P6    | 3           |

| Course Code | Course Title                                           | Level | Credit Unit |
|-------------|--------------------------------------------------------|-------|-------------|
| CHEM6130    | Cosmetic Product Development and Formulation           | P6    | 3           |
| CHEM6131    | Frontiers in Modern Synthetic Chemistry                | P6    | 3           |
| CHEM6132    | Frontiers in Sustainable Energy Conversion and Storage | P6    | 3           |
| CHEM6133    | Advanced Entrepreneurship Programme in Chemistry       | P6    | 3           |
| CHEM6134    | AI for Chemistry                                       | P6    | 3           |

### 3. Important Notes for Cohort 2026/27 and After

#### Semester Schedule Overview

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

#### CHEM6127 Dissertation

- Duration: Taken in Semester B and the Summer Term for full-time students.
- Eligibility & Enrollment: Students enrolling in CHEM6127 must meet a minimum CGPA requirement in Semester A and obtain prior approval from the Course Committee and Programme Leader.
- Reassignment: If the Semester A CGPA requirements are not met or if the quota is full, students will be assigned to CHEM6129.

#### CHEM6129 Advanced Directed Studies

There are three possible study durations available:

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