# TEMPLATE FOR COURSE SPECIFICATION

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification. |

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| 1. Teaching Institution | Al-Nahrain University |
| 2. University Department/Centre | Chemistry |
| 3. Course title/code | Industrial chemistry |
| 4. Modes of Attendance offered |  |
| 5. Semester/Year | First/2022-2023 |
| 6. Number of hours tuition (total) | 30 h |
| 7. Date of production/revision of this specification | 2022 |
| 8. Aims of the Course | |
| To introduce the student to the principles of geology | |
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| 9· Learning Outcomes, Teaching, Learning and Assessment Method |

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| A- Cognitive goals.  A1. Introducing the principles of geology  A2. Introducing students to the theories about geology and how it relate to chemistry |
| B. The skills goals special to the course. B1. Scientific skills  B2. Explain the relation between geology principles  B3. Developing students abilities to understand the geology principles |
| Teaching and Learning Methods |
| * Scientific lecture * Electronic lectures * Educational videos |
| Assessment methods |
| * Quizzes and exams * Homework * Presentations * Attendance and oral exam |
| C. Affective and value goals  C1. Expanding the student abilities to understand and discuss the course material  C2. Expanding the students’ knowledge and its application in daily life |
| Teaching and Learning Methods |
| * Group discussion with example in our daily life * Discussing the latest applications |

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| D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)  - Encouraging students to follow the latest update and participating in scientific workshops in and outside university |

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| 10. Course Structure | | | | | |
| Week | Hours | ILOs | Unit/Module or Topic Title | Teaching Method | Assessment Method |
| 1 | 2 |  | Introduction to geology | Lec. |  |
| 2 | 2 |  | Geology and sciences | Lec. and videos | Students presentation |
| 3 | 2 |  | Earth formation hypothesis | Lec. and videos | HW |
| 4 | 2 |  | Earth spheres | Lec. and videos | Quiz |
| 5 | 2 |  | Exam |  |  |
| 6-7 | 4 |  | Metals | Lec. and videos | Quiz |
| 8-9 | 4 |  | crystallography | Lec. and videos | HW |
| 10 | 2 |  | Introduction on rocks cycle | Lec. and videos | Students presentation |
| 11-12 | 4 |  | Presentation | Group discussion |  |
| 13 | 2 |  | Igneous rocks | Lec. and videos | HW |
| 14 | 2 |  | Sedimentary rocks | Lec. | Students presentation |

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| 11. Infrastructure | | |
| 1. Books Required reading: | | An Introduction to Geology Chris Johnson, Matthew D. Affolter, Paul Inkenbrandt, Cam Mosher, 2017 |
| 2. Main references (sources) | | Earle, S. (2015). Physical Geology. Victoria, B.C.: BCcampus. |
| A- Recommended books and references (scientific journals, reports…). | | The journal of geology |
| B-Electronic references, Internet sites… | | Elsevier  Wikipedia |
| 12. The development of the curriculum plan | |
| Developing the curriculum by keeping abreast of the latest developments in terms of published books and periodicals, in addition to adopting some illustrated scientific reports that may be useful and facilitate the process of understanding the scientific material. | |

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