# 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 programme specification. |

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| 1. Teaching Institution |  |
| 2. University Department/Centre | Al-Nahrain University/College of Science/ Chemistry Department |
| 3. Course title/code | Analytical Chemistry |
| 4. Modes of Attendance offered |  |
| 5. Semester/Year | 4th year/First semester/2022-2023 |
| 6. Number of hours tuition (total) | 2hrs+2hrs practical |
| 7. Date of production/revision of this specification | 4-9-2022 |
| 8. Aims of the Course: Electrochemical Methods for determination the sample by electrode | |
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| 9· Learning Outcomes, Teaching ,Learning and Assessment Methode |
| A- Cognitive goals . A1.electric cell  A2.electrodes  A3.application  A4.  A5.  A6 . |
| B. The skills goals special to the course. B1.  B2.  B3. |
| Teaching and Learning Methods |
| Data show  White bored |
| Assessment methods |
| Home work  Quizzes  attendance |
| C. Affective and value goals C1.  C2.  C3.  C4. |
| Teaching and Learning Methods |
| Data show  White bored |
| Assessment methods |
| Home work  Quizzes  attendance |

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| D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)  D1.  D2.  D3.  D4. |

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| 10. Course Structure | | | | | |
| Week | Hours | ILOs | Unit/Module or Topic Title | Teaching Method | Assessment Method |
| 2 | 4 |  | Introduction to Electrochemistry | Data show  White bored | Home work |
| 2 | 4 |  | Applications of Standard Electrode Potentials | White bored | Quizzes |
| 2 | 4 |  | Applications of Oxidation/Reduction Titrations | Data show  White bored | attendance |
| 2 | 4 |  | Potentiometry | White bored | Home work |
| 2 | 4 |  | Bulk Electrolysis: Electrogravimetry and Coulometry | Data show  White bored | Quizzes |
| 2 | 4 |  | Voltammetry | White bored | attendance |
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| 11. Infrastructure | | |
| 1. Books Required reading: | | yes |
| 2. Main references (sources) | | yes |
| A- Recommended books and references (scientific journals, reports…). | | yes |
| B-Electronic references, Internet sites… | | yes |
| 12. The development of the curriculum plan | |
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