**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. | |
| Al-Maarif University College | **1. Teaching Institution** |
| Computer Engineering Techniques | **2. University Department/Centre** |
| Drawing engineering | **3. Course title/code** |
| Bachelor in Computer Engineering Techniques | **4. Programme(s) to which it Contributes** |
| Face-to-face and online presence | **5. Modes of Attendance offered** |
| Year | **6. Semester/Year** |
| 90 | **7. Number of hours tuition (total)** |
| 22.06.2021 | **8. Date of production/revision of this specification** |
| **9. Aims of the Course** | |
| * Training the student to read electrical maps and design electrical maps that contain electrical switches and integrated circuits for buildings and laboratories. * Introduce the student to the importance of engineering tools and ways to use them in drawing geometric landscapes and projections. | |

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| **10· Learning Outcomes, Teaching ,Learning and Assessment Method** |
| **A. Knowledge and Understanding**  A1. Familiarize the student with drawing programs and applications  A2. Teaching the student to AutoCAD application |
| **B. Subject-specific skills**  B1. Drawing electrical engineering shapes and electronic maps |
| **Teaching and Learning Methods** |
| * Ordinary lecture in the manner of presentation and discussion * Online lecture |
| **Assessment methods** |
| * Interactive assessment that takes place directly between the student and the teacher. * Feedback from students * achievement test |
| **C. Thinking Skills**  C1. Teaching the student to acquire drawing skills on programs to draw electrical and electronic circuits  C2. Mastering the analysis and projection of electrical maps |
| **Teaching and Learning Methods** |
| * Online lecture and the regular lecture in the manner of presentation * Discussion in the classroom |
| **Assessment methods** |
| * Daily exams, monthly exams * Conduct experiments |

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| **11. Course Structure** | | | | | |
| **Assessment Method** | **Teaching Method** | **Unit/Module or Topic Title** | **ILOs** | **Hours** | **Week** |
|  |  | **Introduction** |  | 3 | 1 |
|  |  |  | 3 | 2 |
|  |  | **Lettering.** |  | 3 | 3 |
|  |  | **Geometrical Construction.** |  | 3 | 4 |
|  |  |  | 3 | 5 |
|  |  |  | 3 | 6 |
|  |  | **Conic Sections.** |  | 3 | 7 |
|  |  | **Isometric Drawing.** |  | 3 | 8 |
|  |  |  | 3 | 9 |
|  |  |  | 3 | 10 |
|  |  | **Orthogonal Projection.** |  | 3 | 11 |
|  |  |  | 3 | 12 |
|  |  |  | 3 | 13 |
|  |  | **Pictorial Projection.** |  | 3 | 14 |
|  |  | **Sections** |  | 3 | 15 |
|  |  | **Explanation & Drawing Of Electric & Electronic Symbols.** |  | 3 | 16 |
|  |  |  | 3 | 17 |
|  |  |  | 3 | 18 |
|  |  | **Drawing Of Electric & Electronic Board.** |  | 3 | 19 |
|  |  |  | 3 | 20 |
|  |  |  | 3 | 21 |
|  |  | **Integrated Circuit Drawings.** |  | 3 | 22 |
|  |  |  | 3 | 23 |
|  |  |  | 3 | 24 |
|  |  | **Drawing Of Generator Connectors.** |  | 3 | 25 |
|  |  |  | 3 | 26 |
|  |  |  | 3 | 27 |
|  |  | **Reading Different Electronic And Electric Maps.** |  | 3 | 28 |
|  |  |  | 3 | 29 |
|  |  |  | 3 | 30 |

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| **D. General and Transferable Skills (other skills relevant to employability and personal development)**  D1. Conducting experiments in the laboratory |

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| **12. Infrastructure** | |
| * Hand book isometric drawing * Handbook geometrical construction | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) |

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| 13. Admissions | |
| None | Pre-requisites |
| 8 | Minimum number of students |
| 100 | Maximum number of students |