**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 programmer specification. |

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| Engineering college | ***1. Teaching Institution*** |
| University of Baghdad department of surveying | ***2. University Department/Centre*** |
| Engineering Drawing | ***3. Course title/code& Description*** |
| Bsc in surveying eng. (1st stage) | ***4. Programme(s) to which itContributes*** |
| Annual | ***5. Modes of Attendance offered*** |
| 2017-2018 | ***6. Semester/Year*** |
| 90 | ***7. Number of hours tuition (total)*** |
|  | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The course aims to introduce the | |

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| ***10·Learning Outcomes***  ***The student should deliver a complete knowledge and practical experience of applying lea squares adjustment solution to solve surveying problems and have a principal knowledge about lea squares adjustment*** |
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| ***11.Teaching and Learning Methods*** |
| This includes, lectures, tutorials , reports and technical practical's |
| ***12. Assessment Methods***  Exams and reports |
| ***13. Grading Policy***  **Annual grades from exams, reports,etc + grade from the final exam** |

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| ***14. Course Structure*** | | | | | |
|  |  |  |  |  | Week |
|  |  |  |  | Drawing Instruments ,their uses | 1 |
|  |  |  |  | Types of lines,applications | 2 |
|  |  |  |  | Graphic geometry ,line division ,angle bisections | 3 |
|  |  |  |  | Tangent to curves , reverse curves, pentagon | 4 |
|  |  |  |  | Scale, auto CAD principles | 5 |
|  |  |  |  | Ellipse , concentric circles and parallelogram method | 6 |
|  |  |  |  | Auto CAD application | 7 |
|  |  |  |  | Monthly exam1 , | 8 |
|  |  |  |  | Projection, flat surfaces , application 1 | 9 |
|  |  |  |  | Orthographic projection ,curve surfaces application 2 | 10 |
|  |  |  |  | Orthographic projection ,combined surfaces application 3 | 11 |
|  |  |  |  | Monthly exam2 | 12 |
|  |  |  |  | Dimensions , application 1 | 13 |
|  |  |  |  | عطلة نصف السنة | 14 |
|  |  |  |  | عطلة نصف السنة | 15 |
|  |  |  |  | Auto CAD application | 16 |
|  |  |  |  | Missing lines and missing view, application 1 | 17 |
|  |  |  |  | Missing view, application 2 | 18 |
|  |  |  |  | Auxiliary views, application 1 | 19 |
|  |  |  |  | Auto CAD application | 20 |
|  |  |  |  | Monthly exam3 , | 21 |
|  |  |  |  | Pictorial drawings, isometrics of curved objects | 22 |
|  |  |  |  | Ellipsi in isometrics | 23 |
|  |  |  |  | Monthly exam4 | 24 |
|  |  |  |  | Auto CAD application | 25 |
|  |  |  |  | Oblique drawing, application 1 | 26 |
|  |  |  |  | Rotations of pictorial drawing, application2 | 27 |
|  |  |  |  | Sectional view, , application 1 | 28 |
|  |  |  |  | Monthly exam5 | 29 |
|  |  |  |  | Auto CAD application | 30 |

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| ***15. Infrastructure*** | | |
|  | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include forexample workshops, periodicals,IT software, websites) | |
| NA | Community-based facilities  (include for example, guest  Lectures , internship,field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
| 10 | | Minimum number of students |
| 23 | | Maximum number of students |
| Alaa Dawood Salman | | ***17. Course Instructors*** |

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