Republic of Iraq

Ministry of Higher Education & Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form For The Academic Year 2017-2018

University: Baghdad

College : Engineering

Number Of Departments In The College : 12 Twelve

Date Of Form Completion : 1/9/2017

Dean ’s Name

Date : 1 / 9 / 2017

Signature

Dean ’s Assistant For Scientific Affairs

Date : 1 / 9 / 2017

Signature

The College Quality Assurance And University Performance Manager

Date : 1 / 9 / 2017

Signature

Quality Assurance And University Performance Manager

Date : 1 / 9 / 2017

Signature

**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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| Engineering College | ***1. Teaching Institution*** |
| University of Baghdad / department of Surveying | ***2. University Department/Centre*** |
| engineering Surveying | ***3. Course title/code& Description*** |
| BSc in surveying Eng.(3rd stage) | ***4. Programme(s) to which itContributes*** |
| Annual | ***5. Modes of Attendance offered*** |
| 2017-2018 | ***6. Semester/Year*** |
| 150 hours | ***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 Engineering Surveying applications and to give student a practical turning to manage a survey project. | |

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| ***10·Learning Outcomes*** |
| The student should deliver a complete knowledge and practical experience of applying engineering surveying solution to solve surveying problem. |
| ***11.Teaching and Learning Methods*** |
| 1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application. |
| ***12. Assessment Methods***  reports. |
| ***13. Grading Policy***  Annual grades from exam, reports, etc. + grade from the final exam. |

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| ***14. Course Structure*** | | | | | |
|  |  |  |  |  | Week |
| introduction | | | | | 1 |
| Leveling (method of leveling) | | | | | 2 |
| Applications of leveling(profile& cross section) | | | | | 3 |
| Tachometry | | | | | 4 |
| Leveling with tachometry procedure & compute coordinates | | | | | 5 |
| Measure & compute area in field | | | | | 6 |
| Measure & compute area from map | | | | | 7 |
| Compute area of cross sections | | | | | 8 |
| Compute volumes of uniform figures | | | | | 9 |
| Compute volumes of cut & fill | | | | | 10 |
| Method of corrections | | | | | 11 |
| Volume of borrow bit | | | | | 12 |
| Doing grid of leveling | | | | | 13 |
| ------------ | | | | | 14 |
| exam | | | | | 15 |
| Vertical curves | | | | | 16 |
| Compute level of points on vertical curves | | | | | 17 |
| Function of vertical curves | | | | | 18 |
| Unsymmetrical vertical curves | | | | | 19 |
| Horizontal curves | | | | | 20 |
| Types of horizontal curves | | | | | 21 |
| Methods of setting- out a simple circular curves | | | | | 22 |
| Tangential angles method….etc. | | | | | 23 |
| Compute coordinates of the curves | | | | | 24 |
| Reveres circular curves | | | | | 25 |
| Compound circular curves | | | | | 26 |
| Spiral curves | | | | | 27 |
| Clothoid curve | | | | | 28 |
| ------------ | | | | | 29 |
| Exam | | | | | 30 |

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| ***15. Infrastructure*** | | |
| Engineering and Cadastral surveying | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include forexample workshops, periodicals,IT software, websites) | |
| Field studies using (Total Station) | Community-based facilities  (include for example, guest  Lectures , internship,field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
| 10 | | Minimum number of students |
| 40 | | Maximum number of students |
| Assistant lecture (Luma K. Jasim) | | ***17. Course Instructors*** |

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