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 2017-12018

University: Baghdad

College: Engineering

Number Of Departments In The College:

Date Of Form Completion: June –1/ 9 / 2017

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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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| University of Baghdad | ***1. Teaching Institution*** |
| Engineering college - Surveying Dept. | ***2. University Department/Centre*** |
| Cartography | ***3. Course title/code & Description*** |
| 4 stage | ***4. Programme(s) to which it Contributes*** |
| Annual | ***5. Modes of Attendance offered*** |
| 2017 | ***6. Semester/Year*** |
| 60 hours | ***7. Number of hours tuition (total)*** |
| 2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| Lesson is designed to training the students on how the earth's surface, anybody and another astronomer representation by coordinates on a plane surface and compute the distortion quotient and direction | |

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| ***10·*** ***Learning Outcomes*** |
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| ***11.*** ***Teaching and Learning Methods*** |
| A-Knowledge and Understanding  1. Locate position  2. Compute the distance  3. Compute direction  4. Compute distortion  B- Discussion ,explain and example |
| ***12. Assessment Methods***  Exam, homework , class work |
| ***13. Grading Policy***  20% Practical : 10 practices , 2 quiz  20% Theoretical : 2-3 semesters exam , 2-3 quiz  60% Final Exam |

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| ***14. Course Structure*** | | | | | |
| Assessment Method | Teaching  Method | Unit/Module or Topic Title |  | Hours | Week |
| Exam | Discussion | Introduction , Scale. |  | 2 | 1 |
|  | Example | Latitudes and longitudes, Small and Great Circles:2ch. 1. |  | 2 | 2 |
|  |  | Distortion : 1 ch.4, 3 ch. 10 |  | 2 | 3 |
|  |  | Distortion :1 ch.4, 3 ch. 10. |  | 2 | 4 |
|  |  | Ciassification of Pr0jection and their Properties:1 ch.5, 3 ch. 10. |  | 2 | 5 |
|  |  | Ciassification of Pr0jection and their Properties:1 ch.5, 3 ch. 10. |  | 2 | 6 |
|  |  | Construction and Characteristics of Cylindrical Projections 1 ch.5 ,2ch. 7, 3 ch. 10 ,4 ch.2 . |  | 2 | 7 |
|  |  | Construction and Characteristics of Simple Cylindrical Projections: 1 ch.4, 2 ch.8, 3 ch.10,4 ch.2. |  | 2 | 8 |
|  |  | Orthomorphic Mercotor’s Projection: 1 ch.4&5 and 10. |  | 2 | 9 |
|  |  | Cassini s projection:1 ch. 11,  2 ch.8. |  | 2 | 10 |
|  |  | Conformal Transverse Mercator’s Proj.,U.T.M:4 ch.2,1 ch.10, 11 and 12. |  | 2 | 11 |
|  |  | Normal Secant Cylindrical Projections:2 ch.8, 4 ch.2. |  | 2 | 12 |
|  |  | Conical Projections:(Normal and Tangential):1 ch.5, 8 and 10, 2 ch.6, 3 ch.10 , 4 ch .3. |  | 2 | 13 |
|  |  | The Conical Projection With Tow Standard Parallels :1 ch.5, 2 ch.6 ,4 ch.2. |  | 2 | 14 |
|  |  | Conical Equal Area (Bonne’s Proj.):2 ch.6 ,4 ch.3,3 ch.10. |  | 2 | 15 |
|  |  | The Polyconic Projection:2 ch.6. |  | 2 | 16 |
|  |  | Zenthal Projections:1 ch.4,5,10,2 ch.4, 3 ch.10, 4 ch.5. |  | 2 | 17 |
|  |  | Gnomonic Projections(Polar and Equatorial):2 ch.4, 3 ch.10 ,4 ch.5. |  | 2 | 18 |
|  |  | Stereographical Projections(Polar and Equatorial):4 Ch.5,2 ch.4 ,3 ch .10. |  | 2 | 19 |
|  |  | Orthographic Projections(Polar and Equatorial):2 ch .4, 1 ch .9, 4 ch.5. |  | 2 | 20 |
|  |  | Orthographic Projections(Polar and Equatorial):2 ch .4, 1 ch .9, 4 ch.5. |  | 2 | 21 |
|  |  | Orthographic Projections(Polar and Equatorial):2 ch .4, 1 ch .9, 4 ch.5. |  | 2 | 22 |
|  |  | Analysis of the Relationships between the Zenithal |  | 2 | 23 |
|  |  | Non – Perspective ZenithalProjections,The Zenithal Equidistant Proj:2 ch.4 ,4 ch.5. |  | 2 | 24 |
|  |  | The Zenithal Equal – Area Projections:2 ch.4, 4 ch.5, 3 ch.10, 1 ch.8. |  | 2 | 25 |
|  |  | Practical Construction of Map Projection:1ch .6. |  | 2 | 26 |
|  |  | The Projection Tables,Scale Conversion of the Tabulated Coordinates:1 ch.6, ch. 7. |  | 2 | 27 |
|  |  | Relationships between Graticules and Grids: 1 ch.2 ,ch.3, ch.5, ch.6. |  | 2 | 28 |
|  |  | The choice of a Suitable Map Projection :1 ch.9, 3 ch.10, 2 ch.13, 4 ch.6. |  | 2 | 29 |
|  |  | The choice of a Suitable Map Projection :1 ch.9, 3 ch.10, 2 ch.13, 4 ch.6. |  | 2 | 30 |

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| ***15. Infrastructure*** | | |
| Map projection | 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) | |
| ***16. Admissions*** | | |
| Pass third stage | | Pre-requisites |
| 20 student | | Minimum number of students |
| 50 student | | Maximum number of students |
| A. T. Omar Ali Ibrahim | | ***17. Course Instructors*** |

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