**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 |
| Surveying Engineering Department | 2. University Department/Centre |
| Transportation Engineering | 3. Course title/code |
| ????? | 4. Programme(s) to which it contributes |
| Compulsory attendance | 5. Modes of Attendance offered |
| Full year | 6. Semester/Year |
| 2 hours/ week | 7. Number of hours tuition (total) |
| 2017 | 8. Date of production/revision of this specification  |
| 9. Aims of the Course: Teaching basics of transportation Engineering which includes: road user characteristics, traffic volume and speed studies, highway economy and finance, route location, planning, geometric design, earth work calculation, parking study, street lighting study, road safety study, road marking, road signs, construction equipment, road maintenance  |
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| 10· Learning Outcomes, Teaching ,Learning and Assessment Method:  |
| 1. Knowledge and Understanding

A1.: road user characteristicsA2., traffic volume and speed studiesA3., highway economy and financeA4. route location, planningA5. geometric designA6. earth work calculationA7. parking study, street lighting studyA8., road safety study, road marking,A9. road signs, construction equipment, road maintenance  |
|  B. Subject-specific skillsB1. Data collectionB2.statistical analysis |
|  Teaching and Learning Methods |
| Lecture notes, three home work, four monthly examinations |
|  Assessment methods  |
| Monthly examinations, home work, lecture attendance |
| C. Thinking Skills C1.solving mathematical problemsC2.collecting dataC3. Analysis of field dataC4. Statistical analysis  |
|  Teaching and Learning Methods  |
| Lecture notes, three home work, four monthly examinations |
|  Assessment methods |
| three home work, four monthly examinations |

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| D. General and Transferable Skills (other skills relevant to employability and personal development) D1.data collectionD2.statistical analysisD3.design |

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| 11. Course Structure |
| Assessment Method | TeachingMethod | Unit/Module or Topic Title | ILOs | Hours | Week |
| Exam  | Lector notes | Introduction  | Understanding  | 2 | 1 |
|  | Do  | road user characteristic | Do  | 4 | ,2, 3 |
| Home work | Do  | traffic volume study | Do  | 4 | 4,5 |
|  | Do  | Traffic speed study | Do  | 2 | 6 |
| Exam  | Do  | highway economy and finance | Do. | 2 | 7 |
|  | Do  | Route location and planning | Do  | 2 | 8 |
| Home work | Do  | Geometric design | Do  | 8 | 9, 10, 11, 12 |
| Exam  | Do  | Earthwork calculation | Do  | 2 | 13 |
|  | Do  | Parking and lighting study | Do  | 4 | 14, 15 |
| Home work | Do  | Road safety, road marking | Do  | 2 | 16 |
|  | Do  | Road signs, construction equipment | Do  | 4 | 17, 18 |
| Exam  | Do  | Road maintenance | Do  | 4 | 19,20 |

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| 12. Infrastructure |
| Lecture notes, text book | Required reading:· CORE TEXTS· COURSE MATERIALS· OTHER |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) |
| Analysis of field data | Community-based facilities(include for example, guestLectures , internship , field studies) |

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| 13. Admissions |
|  | Pre-requisites |
| 15 | Minimum number of students |
| 30 | Maximum number of students |