**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 mechanical | ***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*** |
| 120 | ***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***  High serving ІІ ***solution to solve surveying problems and have a principal knowledge about***  High serving ІІ |
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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*** | | | | | |
|  |  |  |  | Introduction to vector algebra | Week |
|  |  |  |  | Forces:- types, force resolution , force composition | 1 |
|  |  |  |  | Moment of aforce ,couples | 2 |
|  |  |  |  | Transformation of force. | 3 |
|  |  |  |  | Resultant of forces , coplaner systems | 4 |
|  |  |  |  | Varginons principle , Resultant of non- coplaner systems | 5 |
|  |  |  |  | Monthly exam1 , equilibrium , free body diagram | 6 |
|  |  |  |  | free body diagrams, reactions | 7 |
|  |  |  |  | Reactions of simple structures | 8 |
|  |  |  |  | Reactions of compound structures | 9 |
|  |  |  |  | Monthly exam2 ,trusses | 10 |
|  |  |  |  | Method of joint , pullies | 11 |
|  |  |  |  | Method of section | 12 |
|  |  |  |  | عطلة نصف السنة | 13 |
|  |  |  |  | عطلة نصف السنة | 14 |
|  |  |  |  | Friction, static condition | 15 |
|  |  |  |  | Monthly exam3 ,solved problems | 16 |
|  |  |  |  | Centroid ,method of integration ,method of summation | 17 |
|  |  |  |  | Moment of inertia by integration and summation | 18 |
|  |  |  |  | Section modulus , radius of gyration , solved problems . | 19 |
|  |  |  |  | Monthly exam4 ,summary of static cases | 20 |
|  |  |  |  | Motion of particales, recti-linear motion | 21 |
|  |  |  |  | Analytical and graphical solutions | 22 |
|  |  |  |  | Curve linear motion , projectiles | 23 |
|  |  |  |  | Semi- graphical solutions, motion of lines | 24 |
|  |  |  |  | Monthly exam5 , solved problems | 25 |
|  |  |  |  | Planer motion , inertia effect | 26 |
|  |  |  |  | Monthly exam6 , solved problems | 27 |
|  |  |  |  | Instantaneous center | 28 |
|  |  |  |  | Simple mechanisms | 29 |
|  |  |  |  | Rigid body rotation | 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 |
| 38 | | Maximum number of students |
| Alaa Dawood Salman | | ***17. Course Instructors*** |

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