**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 anddemonstrate 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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| College of engineering  University of Baghdad | ***1. Teaching Institution*** |
| Mechanical Engineering Department  (MED) | ***2. University Department/Centre*** |
| **Mechanical drawing**  This course introduces the description of mechanical drawing principles. Topics covered: Auxiliary view, bolts & nut, key, rivet, spring, welding, fit & tolerance, gears, cams, assembly, is assembly,  . The course is designed to provide a background to higher level of mechanical drawing. The course is Taught through 3 hours a week. | ***3. Course title/code& Description*** |
| Mechanical Engineering (ME) | ***4. Programme(s) to which itContributes*** |
| Annual System: There is only one mode delivery, which is a "Day Program " The students are full time students, and on campus . they attend full day program in face to face mode . the academic year is composed of 30 week regular subjects . | ***5. Modes of Attendance offered*** |
| 1st & 2 nd / | ***6. Semester/Year*** |
| 90 hours / 3hrs. per week | ***7. Number of hours tuition (total)*** |
|  | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| • To impart and inculcate proper understanding of the theory of projection.  • To improve the visualization skills.  • To enable the students with various concepts like dimensioning, conventions and standards related to working drawings in order to become professionally efficient.  • To impart the knowledge on understanding and drawing of simple residential/office buildings. | |

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| ***10·Learning Outcomes*** |
| • Students will be able to understand the theory of projection.  • Students will be able to know and understand the conventions and the methods of engineering drawing.  • Students will be able to improve their visualization skills so that they can apply these skills in developing new products.  • Students will be able to prepare simple layout of factory buildings. |
| ***11.Teaching and Learning Methods*** |
| 1. Lectures . 2. Tutorials . 3. Homework and assignments 4. Lab. Experiments . 5. Tests and Exams . 6. In class Questions and discussions . 7. Connection between Theory and Application 8. Extracurricular activities. 9. Seminars . 10. In – And Out – Class oral conversations . 11. Reports , presentations , and posters . |
| ***12. Assessment Methods***  1- Examinations , tests , and Quizzes .  2- Extracurricular Activities .  3- Student Engagement during Lectures .  4- Responses obtained from student s Questionnaire about curriculum and faculty Member (Instructor) . |
| ***13. Grading Policy***  ***Manufacturing Processes:***   1. Quizzes :  * There will be a (35-40 )Quizzes during the academic year .   Classify between home work and class work.   * The quizzes will count 55% of the total course grade for * Comprehensive exam in mid-year will count 5% of the total course grade .  1. The final exam will be comprehensive , closed books and will take place in June 2014 from 9:00AM – 12:00 PM .   The final exam will count 40 % of the total course grade. |

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| ***14. Course StructureManufacturing processes and Statistics*** | | | | | |
| Assessment method | Teaching  Method | Topic title | Los Article 10) | hours | Week |
| 1-4 of article (12) | 1-11 of article (11) | Auxiliary view | 1-9 | 3 hours a week | 1 |
| 1-4 of article (12) | 1-11 of article (11) | Auxiliary view | 1-9 | 3 hours a week | 2 |
| 1-4 of article (12) | 1-11 of article (11) | Auxiliary view | 1-9 | 3 hours a week | 3 |
| 1-4 of article (12) | 1-11 of article (11) | bolts & nut | 1-9 | 3 hours a week | 4 |
| 1-4 of article (12) | 1-11 of article (11) | bolts & nut | 1-9 | 3 hours a week | 5 |
| 1-4 of article (12) | 1-11 of article (11) | bolts & nut | 1-9 | 3 hours a week | 6 |
| 1-4 of article (12) | 1-11 of article (11) | key | 1-9 | 3 hours a week | 7 |
| 1-4 of article (12) | 1-11 of article (11) | key | 1-9 | 3 hours a week | 8 |
| 1-4 of article (12) | 1-11 of article (11) | key | 1-9 | 3 hours a week | 9 |
| 1-4 of article (12) | 1-11 of article (11) | rivet | 1-9 | 3 hours a week | 10 |
| 1-4 of article (12) | 1-11 of article (11) | rivet | 1-9 | 3 hours a week | 11 |
| 1-4 of article (12) | 1-11 of article (11) | rivet | 1-9 | 3 hours a week | 12 |
| 1-4 of article (12) | 1-11 of article (11) | spring | 1-9 | 3 hours a week | 13 |
| 1-4 of article (12) | 1-11 of article (11) | spring | 1-9 | 3 hours a week | 14 |
| 1-4 of article (12) | 1-11 of article (11) | spring | 1-9 | 3 hours a week | 15 |
| 1-4 of article (12) | 1-11 of article (11) | welding | 1-9 | 3 hours a week | 16 |
| 1-4 of article (12) | 1-11 of article (11) | welding | 1-9 | 3 hours a week | 17 |
| 1-4 of article (12) | 1-11 of article (11) | welding | 1-9 | 3 hours a week | 18 |
| 1-4 of article (12) | 1-11 of article (11) | fit & tolerance | 1-9 | 3 hours a week | 19 |
|  | 1-11 of article (11) | fit & tolerance | 1-9 | 3 hours a week | 20 |
| 1-4 of article (12) | 1-11 of article (11) | gears | 1-9 | 3 hours a week | 21 |
| 1-4 of article (12) | 1-11 of article (11) | gears | 1-9 | 3 hours a week | 22 |
| 1-4 of article (12) | 1-11 of article (11) | cams | 1-9 | 3 hours a week | 23 |
| 1-4 of article (12) | 1-11 of article (11) | cams | 1-9 | 3 hours a week | 24 |
| 1-4 of article (12) | 1-11 of article (11) | assembly, | 1-9 | 3 hours a week | 25 |
| 1-4 of article (12) | 1-11 of article (11) | assembly, | 1-9 | 3 hours a week | 26 |
| 1-4 of article (12) | 1-11 of article (11) | assembly, | 1-9 | 3 hours a week | 27 |
| 1-4 of article (12) | 1-11 of article (11) | dis assembly, | 1-9 | 3 hours a week | 28 |
| 1-4 of article (12) | 1-11 of article (11) | dis assembly, | 1-9 | 3 hours a week | 29 |
| 1-4 of article (12) | 1-11 of article (11) | dis assembly, | 1-9 | 3 hours a week | 30 |

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| ***15. Infrastructure*** | | |
| **Text books :**  **Technical Graphics Communication**   1. كتاب الاستاذ عبد الرسول الخفاف , الطبعة الثالثة 1987 .   **References :**   1. Fundamentals of engineering drawing , second edition charlesJ.vierck 1960 . 2. Engineering Drawing and Graphic technology 12 th edition vierck1978 . 3. الرسم الهندسي د. فتحي شريف الطبعة الثانية 1967 | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| 1. Laboratory experiments in the computer lab. Of the department . 2. Available websites related to the subject . 3. Soft ware available. | Special requirements (include forexample workshops, periodicals,IT software, websites) | |
| Field and scientific visits .  Extra lectures by foreign guest lecturers . | Community-based facilities  (include for example, guest  Lectures , internship,field studies) | |
| ***16. Admissions*** | | |
| ME | | Pre-requisites |
| / | | Minimum number of students |
| 75 | | Maximum number of students |
|  | | ***17. Course Instructors*** |

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