**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 .
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| ***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, guestLectures , internship,field studies) |
| ***16. Admissions*** |
| ME  | Pre-requisites |
| / | Minimum number of students |
| 75 | Maximum number of students |
|  | ***17. Course Instructors*** |

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