**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

 **COURSE SPECIFICATION**

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| **The aim of this course is to introduce students the basic concepts and the use of engineering drawing in the design and manufacturing filed,The students acquaint with the basic knowledge and skills in engineering drawing and the capability to read and interpret blue prints for manufacturing. The students can also develop an understanding of 2D and 3D computer aided drafting with the requirements of good engineering drawings and be able to apply them to their work** |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Mechanical Engineering Department (MED) | ***2. University Department/Centre*** |
| Engineering drawing  | ***3. Course title/code & Description*** |
| Mechanical Engineering ( ME ) | ***4. Programme(s) to which it Contributes*** |
|  Annual | ***5. Modes of Attendance offered*** |
| 2018-2019 | ***6. Semester/Year*** |
| 90 hours | ***7. Number of hours tuition (total)*** |
| 24/10/2018 | ***8. Date of production/revision of this specification***  |
| ***9. Aims of the Course*** |
| 1. Introducing the student to the fundamentals of geometric drawing of the lines, the dots, the sections and the isometric so that the student can translate the engineering drawings that face him
2. Teaching students how to draw manually
3. Preparing students to learn mechanical drawing for the second stage
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| ***10·*** ***Learning Outcomes***  |
| At the end of the class, the student will be able to:1. Knowledge and Understanding

a 1- Ability to use engineering toolsa 2- The ability to understand the types of linesa 3- The ability to understand engineering processesa 4- The ability to understand the projectionsa 5- The ability to understand isometric drawinga 6- Ability to understand axial projection1. Subject-specific skills

b 1- Innovation techniquesb 2- Application of skillsb 3- Use of engineering tools |
|  ***11.*** ***Teaching and Learning Methods*** |
| Explain, discuss and draw in class, solve a descriptive example and give homework |
|  ***12. Assessment Methods***  |
| Class and homework assignments and examinations***13. Grading Policy*** |

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| ***14. Course Structure*** |
| Assessment Method | TeachingMethod | Unit/Module or Topic Title | LOs( Article 10 ) | Hours | Week |
| Exam ,home work and class work | Discussion explain and examples | Engineering Tools | A,B,C,D | 3 | 1 |
| = | = | types of lines | = | 3 | 2 |
| = | = | Engineering operations | = | 3 | 3 |
| = | = | Engineering operations | = | 3 | 4 |
| = | = | Ellips | = | 3 | 5 |
| = | = | Projection | = | 3 | 6 |
| = | = | Plane of projection | = | 3 | 7 |
| = | = | View of the object | = | 3 | 8 |
| = | = | Drawing the six projections | = | 3 | 9 |
| = | = | Section  | = | 3 | 10 |
| = | = | Sectional View  | = | 3 | 11 |
|  = | = | Sectional View  | = | 3 | 12 |
|  = | = | Dimensions | = | 3 | 13 |
| = | = | Place the dimensions | = | 3 | 14 |
| = | = | Drawing a variety of exercises | = | 3 | 15 |
| = | = | Drawing a variety of exercises | = | 3 | 16 |
| = | = | Isometric projection | = | 3 | 17 |
| = | = | Isometric drawing | = | 3 | 18 |
| = | = | Isometric drawing | = | 3 | 19 |
| = | = | Isometric drawing | = | 3 | 20 |
| = | = | Isometric drawing | = | 3 | 21 |
| = | = | Drawing a variety of exercises | = | 3 | 22 |
| = | = | Drawing a variety of exercises | = | 3 | 23 |
| = | = | Drawing a variety of exercises | = | 3 | 24 |
| = | = | Oblique projection | = | 3 | 25 |
| = | = | Oblique projection | = | 3 | 26 |
| = | = | Oblique projection | = | 3 | 27 |
|  = | = | Oblique projection | = | 3 | 28 |
|  = | = | Drawing a variety of exercises | = | 3 | 29 |
| = | = | Drawing a variety of exercises | = | 3 | 30 |

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| ***15. Infrastructure*** |
| ***Textbook*** * .
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* ***References***
1. كتاب الرسم الهندسي (عبدالرسول الخفاف)
2. Graphics for engineers(JANES HEARLS)Addison wisely company-second edition 1989

***Others*** | Required reading:· CORE TEXTS· COURSE MATERIALS· OTHER |
| * Workshops
* Software
* Websites

. | Special requirements (include for example workshops, periodicals, IT software, websites) |
| * Guest lectures
* Internship
* Field studies.
 | Community-based facilities(include for example, guestLectures , internship , field studies) |
| ***16. Admissions*** |
|  | Pre-requisites |
| 80 student | Minimum number of students |
| 70 student | Maximum number of students |
| ***Instructor:*** ***Prof. Hussein Yosif*** | ***17. Course Instructors*** |

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