|  |  |
| --- | --- |
| **Preparatory Year** | **السنة التحضرية** |

|  |  |
| --- | --- |
| **المستوى التحضيري 1** | **Preparatory Semester 1** |
| اسـم المقرّر | **Course Requisite** | **Contact Hours** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| رياضيات | --- | 3 | 3 | Mathematics | 1003101 | 1 |
| مهارات حاسب آلي | --- | 3 | 3 | Computer Skills | 1004101 | 2 |
| اللغة الانجليزية 1 | --- | 15 | 3 | English 1 | 1001101 | 3 |
| مهارات الاتصال | --- | 2 | 2 | Communication Skills | 1002101 | 4 |
| مهارات التفكير | --- | 2 | 2 | Thinking Skills | 1002102 | 5 |
|  |  |  | **25** | **13** | **Total Units of the Prep. Semester** |

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| --- | --- |
| **First Year** | **السنة الأولى** |

|  |  |
| --- | --- |
| **المستوى الأول** | **First Semester** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| فيزياء عامة 1 | --- | 1 | 3 | 4 | General Physics 1 | 1101101 | 1 |
| حساب التفاضل والتكامل 1 | --- | 1 | 3 | 4 | Calculus 1 | 1104101 | 2 |
| مقدمة علوم الحاسب | --- | 1 | 2 | 3 | Introduction to Computer Science | 1105101 | 3 |
| مصطلحات علمية | --- | --- | 2 | 2 | Scientific Terminology | 1100001 | 4 |
| ثقافة اسلامية 1 | --- | --- | 2 | 2 | Islamic Culture 1 | 1601101 | 5 |
|  |  | **3** | **12** | **15** | **Total units of the first semester** |

|  |  |
| --- | --- |
| **المستوى الثاني** | **Second Semester** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| كيمياء عامة 1 | --- | 1 | 3 | 4 | General Chemistry 1 | 1102101 | 1 |
| أحياء عامة 1 | --- | 1 | 3 | 4 | General Biology 1 | 1103101 | 2 |
| مقدمة الإحصـــاء | --- | --- | 3 | 3 | Introduction to Statistic | 1104131 | 3 |
| لغة عربية  | --- | --- | 2 | 2 | Arabic Language  | 1602101 | 4 |
| ثقافة اسلامية 2 | 1601101 | --- | 2 | 2 | Islamic Culture 2 | 1601201 | 5 |
|  |  | **2** | **13** | **15** | **Total units of the second semester** |

**وحدة التمارين المعتمدة = 2 ساعة اتصــــــال**

**وحدة العملي المعتمـــدة = 3 ساعات اتصال**

|  |  |
| --- | --- |
| **Second Year** | **السنة الثانية** |

|  |  |
| --- | --- |
| **المستوى الثالث** | **Third Semester** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| فيزياء عامة 2 | 1101101 | 1 | 3 | 4 | General Physics 2 | 1101202 | 1 |
| فيزياء عامة 3 | 1101101 | 1 | 3 | 4 | General Physics 3 | 1101203 | 2 |
| حساب التفاضل والتكامل 2 | 1104101 | 1 | 3 | 4 | Calculus 2 | 1104202 | 3 |
| ديناميكا حرارية | Co-req11101203 | --- | 3 | 3 | Thermodynamics | 1101221 | 4 |
|  |  | **3** | **12** | **15** | **Total units of the third semester** |

|  |  |
| --- | --- |
| **المستوى الرابع** | **Fourth Semester** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| فيزياء رياضية 1 | 1104202 | --- | 3 | 3 | Mathematical Physics 1 | 1101251 | 1 |
| ضــــوء | 1101203 | 1 | 3 | 4 | Optics | 1101211 | 2 |
| كهرومغنطيسية 1 | 1101202 | --- | 3 | 3 | Electromagnetism 1  | 1101231 | 3 |
| ميكانيكا تقليدية 1 | Co-req1101251 | --- | 3 | 3 | Classical Mechanics 1 | 1101252 | 4 |
| معادلات تفاضلية | 1104202 | --- | 3 | 3 | Differential Equations | 1104241 | 5 |
|  |  | **1** | **15** | **16** | **Total units of the fourth semester** |

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| --- | --- |
| **Third Year** | **السنة الثالثة** |

|  |  |
| --- | --- |
| **المستوى الخامس** | **Fifth Semester** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| فيزياء رياضية 2 | 1101251 | --- | 3 | 3 | Mathematical Physics 2 | 1101353 | 1 |
| كهرومغنطيسية 2 | 1101231 | --- | 3 | 3 | Electromagnetism 2 | 1101332 | 2 |
| ميكانيكا تقليدية 2 | 1101252 | --- | 2 | 3 | Classical Mechanics 2 | 1101354 | 3 |
| فيزياء حديثة | 1101211 | 1 | 3 | 4 | Modern Physics | 1101341 | 4 |
| اختياري 1 )ثقافة إسلامية 3)\*  | 1601201 | --- | 2 | 2 | Islamic Culture 3  | 1601301 | 5 |
|  |  | **1** | **14** | **15** | **Total units of the fifth semester** |

|  |  |
| --- | --- |
| **المستوى السادس** | **Sixth Semester** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| فيزياء ذرية وجزيئية | 1101341 | --- | 3 | 3 | Atomic and molecular Physics | 1101342 | 1 |
| دوائر الكترونية 1 | 1101332 | 1 | 3 | 4 | Electronic Circuits 1 | 1101312 | 2 |
| ميكانيكا الكم | 1101354 | --- | 4 | 4 | Quantum Mechanics | 1101355 | 3 |
| مقرر حر | --- | --- | 3 | 3 | Free Course | xxxxxxx | 4 |
| اختياري 2 (ثقافة إسلامية 4) \*\* | 1601301 | --- | 2 | 2 | Islamic Culture 4 | 1601401 | 5 |
|  |  | **1** | **15** | **16** | **Total units of the sixth semester** |

|  |  |
| --- | --- |
| **تدريب ميداني (الفصل الصيفي)** | **Field Training (Summer Semester)**  |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| تدريب صيفي | Department Approvement | 2 | 0 | 2 | Site Training | 1101391 | 1 |
|  |  |  |  | **2** | **Total units of the training semester** |

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| --- | --- |
| **Fourth Year** | **السنة الرابع** |

|  |  |
| --- | --- |
| **المستوى السابع** | **Seventh Semester** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| ميكانيكا احصائية | 1101355 | --- | 3 | 3 | Statistical Mechanics | 1101456 | 1 |
| فيزياء الجوامد | 1101355 | 1 | 3 | 4 | Solid State Physics | 1101471 | 2 |
| فيزياء نووية | 1101355 | 1 | 3 | 4 | Nuclear Physics | 1101461 | 3 |
| فيزياء الطاقة والبيئة | Co-req1101461 | --- | 3 | 3 | Physics of Energy and Environment | 1101462 | 4 |
|  |  | **2** | **12** | **14** | **Total units of the seventh semester** |

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| --- | --- |
| **المستوى الثامن** | **Eighth Semester** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| مقرر اختياري | --- | --- | 3 | 3 | Elective course | 11014xx | 1 |
| مقرر اختياري | --- | --- | 3 | 3 | Elective course | 11014xx | 2 |
| مقرر اختياري | --- | --- | 3 | 3 | Elective course | 11014xx | 3 |
| مشروع التخرج | --- | --- | 3 | 3 | graduation project | 1101492 | 4 |
|  |  |  | **12** | **12** | **Total units of the eighth semester** |