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

|  |  |
| --- | --- |
| **المستوى التحضيري 1** | **Preparatory Semester 1** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| رياضيات | --- | 1 | 2 | 3 | Math  | 1003101 | 1 |
| مهارات الحاسب الآلي | --- | 1 | 2 | 3 | Computer Skills  | 1004101 | 2 |
| اللغة الانجليزية 1 | --- | 1 | 2 | 3 | English 1 | 1001101 | 3 |
| مهارات الإتصال | --- | 0 | 2 | 2 | Communication Skills | 1002101 | 4 |
| مهارات التفكير | --- | 0 | 2 | 2 | Thinking Skills | 1002102 | 5 |
|  |  |  |  | **13** | **Total Units of the Prep. Semester** |

|  |  |
| --- | --- |
| **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 |
| إحصـــاء | --- | --- | 3 | 3 | Statistics | 1104231 | 3 |
| مصطلحات علمية | --- | --- | 2 | 2 | Scientific Terminology | 1001102 | 4 |
| ثقافة اسلامية 1 | --- | --- | 2 | 2 | Islamic Culture 1 | 1601101 | 5 |
|  |  |  |  | **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 | 1102201 | 1 |
| أحياء عامة 1 | --- | 1 | 3 | 4 | General Biology 1 | 1103201 | 2 |
| اللغة العربية  | --- | --- | 2 | 2 | Arabic Language  | 1602101 | 3 |
| مقدمة علوم الحاسب | --- | 1 | 2 | 3 | Introduction to Computer Science | 1105101 | 4 |
| ثقافة اسلامية 2 | 1601101 | --- | 2 | 2 | Islamic Culture 2 | 1601201 | 5 |
|  |  |  |  | **15** | **Total units of the second semester** |

**وحدة التمارين المعتمدة = 2 ساعة اتصــــــال / وحدة العملى المعتمـــدة = 3 ساعات اتصال**

**\* يشترط إجتياز الطالب لمقررات المستوى التحضيرى**

|  |  |
| --- | --- |
| **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.** |
| مقدمة البرمجة  | 1105101 | 1 | 2 | 3 | Int. to Programming | 1105211 | 1 |
| تصميم المنطق الرقمى | 1105101 | 1 | 2 | 3 | Digital Logic Design | 1105221 | 2 |
| الممارسات الأخلاقية والمهنية | --- | --- | 2 | 2 | Ethical and Professional Practices | 1105281 | 3 |
| رياضيات متقطعة | 1105221 | 1Tu | 2 | 3 | Discrete Mathematics | 1105231 | 4 |
| اختياري (1) ثقافة إسلامية  | 1601201 | --- | 2 | 2 | Elective (1) Islamic Culture | 1601xxx | 5 |
|  |  |  |  | **13** | **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.** |
| تطبيقات البرمجة | 1105211 | 1 | 2 | 3 | Programming Applications | 1105212 | 1 |
| تصميم النظم الرقمية | 1105221 | 1 | 2 | 3 | Digital Systems Design | 1105222 | 2 |
| هياكل البيانات | 1105211 | 1 | 2 | 3 | Data Structures | 1105241 | 3 |
| النظرية الحسابية | 1105231 | --- | 3 | 3 | Computation Theory | 1105232 | 4 |
| اختياري(2) ثقافة إسلامية  | 1601201 | --- | 2 | 2 | Elective (2) Islamic Culture | 1601xxx | 5 |
|  |  |  |  | **14** | **Total units of the fourth semester** |

|  |  |
| --- | --- |
| **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.** |
| برمجة شيئية | 1105212 | 1 | 2 | 3 | O.O.P. | 1105313 | 1 |
| تحليل وتصميم الخوارزميات | 1105241 | 1 | 2 | 3 | Analysis & Design of Algorithms | 1105314 | 2 |
| معمار الحاسب | 1105222 | 1 | 2 | 3 | Computer Architecture | 1105323 | 3 |
| نظم قواعد البيانات | 1105212 | 1 | 2 | 3 | Database Systems | 1105342 | 4 |
| جبر خطي | 1104101 | 1 | 2 | 3 | Linear Algebra | 1104222 | 5 |
|  |  |  |  | **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.** |
| برمجة الويب | 1105313 | 1 | 2 | 3 | Web Programming | 1105315 | 1 |
| ذكاء إصطناعى | 1105232 | --- | 3 | 3 | Artificial Intelligence | 1105333 | 2 |
| رسوميات الحاسب | 1105313 | 1 | 2 | 3 | Computer Graphics | 1105351 | 3 |
| نظم التشغيل | 1105323 | 1 | 2 | 3 | Operating Systems | 1105361 | 4 |
| شبكات الحاسب المحلية | 1105323 | 1 | 2 | 3 | Local Area Networks | 1105371 | 5 |
|  |  |  |  | **15** | **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 ميداني  | 90 credit hour & Dept. approval | 3 | 0 | 3 | Field Training | 1105482 | 1 |
|  |  |  |  | **3** | **Total units of the training semester** |

|  |  |
| --- | --- |
| **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.** |
| برمجة نظم الحاسب | 11053231105313 | 2 | 2 | 3 | Computer Systems Programming | 1105462 | 1 |
| هندسة البرمجيات | 1105342 | --- | 3 | 3 | Software Engineering | 1105443 | 2 |
| شبكات الحاسب الموسعة  | 1105371 | 1 | 2 | 3 | Wide Area Networks | 1105472 | 3 |
| مقرر حـــر | --- | --- | --- | 3 | Free Course | xxxxxxx | 4 |
| اختياري تخصص 1 | --- | --- | --- | 3 | Elective Specialization (1)  | 1105xxx | 5 |
|  |  |  |  | **15** | **Total units of the seventh semester** |

|  |  |
| --- | --- |
| **المستوى الثامن** | **Eighth Semester** |
| اسـم المقرّر | **Course Requisite** | **Units Type** | **Credit****Units** | **Course Title** | **Course Number & Code** | **No** |
| **Pr./Tu.** | **Th.** |
| بناء مترجمات البرامج | 1105462 | 1 | 2 | 3 | Compiler Construction | 1105463 | 1 |
| نظم الحوسبة الموزعة | 1105472 | 0 | 3 | 3 | Distributed Computing Systems | 1105473 | 2 |
| مشروع تخرج | 100 Cr. Hr. | 1 | 2 | 3 | Graduation Project | 1105483 | 3 |
| اختياري تخصص 2 | --- | --- | --- | 3 | Elective Specialization (2)  | 1105xxx | 4 |
| اختياري تخصص 3 | --- | --- | --- | 3 | Elective Specialization (2)  | 1105xxx  | 5 |
|  |  |  |  | **15** | **Total units of the eighth semester** |