**Elective courses**

**First level:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course no.** | **Course name** | **No. of hours** | | **Total** | **Registration requirements** | **Exam time** | **The great score** |
| **Theoretical** | **Practical** |
| **ABT E.01** | **التفكير النقدى**  **Critical thinking** | **1** | **-** | **1** |  | **2** | **50** |
| **ABT E.02** | **مهارات الاتصال وسوق العمل**  **Business communication** | **1** | **-** | **1** |  | **2** | **50** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course no.** | **Course name** | **No. of hours** | | **Total** | **Registration requirements** | **Exam time** | **The great score** |
| **Theoretical** | **Practical** |
| **ABT E.03** | **التجهيزات اللازمه لمستخدمى للتكنولوجيا الحيويه instrumentation for biotechnologists** | **1** | **1** | **2** |  | **2** | **50** |
| **ABT E.04** | **حقوق الملكيه الفكريه**  **Intellectual property protection** | **1** | **-** | **1** |  | **2** | **50** |

**Second level:**

**Third level:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course no.** | **Course name** | **No. of hours** | | **Total** | **Registration requirements** | **Exam time** | **The great score** |
| **Theoretical** | **Practical** |
| **ABT E.05** | **الانزيمات والهرمونات**  **Enzymes and hormones** | **1** | **1** | **2** |  | **2** | **50** |
| **ABT E.06** | **البروتيومكس والبروتينات المهندسة وراثياً**  **Proteomic and protein engineering** | **1** | **1** | **2** |  | **2** | **50** |

**Fourth level:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course no.** | **Course name** | **No. of hours** | | **Total** | **Registration requirements** | **Exam time** | **The great score** |
| **Theoretical** | **Practical** |
| **ABT E.7** | **اداره وتسويق التكنولوجيا الحيويه**  **Management and marketing in biotechnology** | **1** | **1** | **2** |  | **2** | **50** |
| **ABT E.8** | **بيوتكنولوجيا الاغذيه**  **Food biotechnology** | **1** | **1** | **2** |  | **2** | **50** |

**Fifth level:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course no.** | **Course name** | **No. of hours** | | **Total** | **Registration requirements** | **Exam time** | **The great score** |
| **Theoretical** | **Practical** |
| **ABT E.9** | **Literature survey رصد المراجع والابحاث** | **1** | **-** | **1** |  | **2** | **50** |
| **ABT E.10** | **Industrial project المشاريع الصناعيه** | **1** | **-** | **1** |  | **2** | **50** |