**Y E A R : S E C O N D**

S U B J E C T : E M B R Y O L O G Yعلم الاجنة

**Theoretical hours: 1**

**Practical hours: - Units: 1**

**SECOND SEMESTER**

|  |  |
| --- | --- |
| **EMBRYOLOGY: THEORETICAL SUBJECTS** | **HOURS** |
| Introduction, oogenesis, Spermatogenesis | **1** |
| Fertilization, cleavage, Implantation | **2** |
| Trilaminar embryonic disc | **1** |
| Placentation with classification | **1** |
| Development of cardiovascular system | **1** |
| Development of urogenital system | **2** |
| Development of body cavities | **1** |
| Development of digestive system | **2** |
| Development of respiratory system | **2** |
| Development of nervous system. | **2** |
| **Total** | **15** |

**Y E A R : S E C O N D**

S U B J E C T : G E N E T I C S

**Theoretical hours: 2**

**Practical hours: - Units: 2**

**FIRST SEMESTER**

|  |  |
| --- | --- |
| **GENETICS: THEORETICAL SUBJECTS** | **HOURS** |
| Genetics history and its theories | **2** |
| The cell and chromosome behavior | **2** |
| Mendelian inheritance and its modification | **2** |
| Genetics and statistics in pedigree analysis | **2** |
| Genes interaction | **2** |
| Multiple alleles and psudoalleles | **2** |
| Sex determination and inheritance related to sex | **3** |
| Linkage, crossing over and genetic map | **3** |
| Chromosomal mutations | **2** |
| The chemical and engineering basis of heredity | **2** |
| Gene frequency and factors affecting it | **2** |
| Resemblance between relatives | **2** |
| Selection | **2** |
| Methods of matting | **2** |
| **Total** | **30** |