

**University:*alnahrain***

**College:*medicine***

**Department: *Histology &embryology***

**Stage:*Two***

**Lecturer name: *Hayder J.K. Mubarak***

**Academic Status: Assistant *Professor***

**Qualification: *Ph. D***

**Place of work:*Al Nahrain medical college***

**Republic of Iraq**

**The Ministry of Higher Education**

**& Scientific Research**

**Course Weekly Outline**

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| **Course Instructor** | **Hayder Jawad Kathem Mubarak** | | | | |
| **E\_mail** | **Hayder\_67\_67@yahoo.com** | | | | |
| **Title** | **Assistant Professor** | | | | |
| **Course Coordinator** | **Hayder Jawad Kathem Mubarak** | | | | |
| **Course Objective** | 1. **To acquire knowledge about the morphogenesis and dynamica of developmental stages of human embryo and placenta.** 2. **Establish understanding of the process of gametogenesis and teratogenicity.** | | | | |
| **Course Description** | **First semester in medical embryology** | | | | |
| **Textbook** | * **Sadler TW (2006): Langman' medical embryology. 10th ed. Compositor Maryland Composition Co., Inc.** | | | | |
| **References** |  | | | | |
| **Course Assessment** | **Mid-Term Tests** | **Laboratory** | **Quizzes** | **Project** | **Final Exam** |
| **(20%)** | **(10%)** | **(10%)** | **----** | **(60%)** |
| **General Notes** |  | | | | |

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**Course weekly Outline**

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| --- | --- | --- | --- | --- |
| **week** | **Date** | **Topics Covered** | **Lab. Experiment Assignments** | **Notes** |
| **1** |  | **Fertilization and methods of contrception** | **The male and female gametes.** |  |
| **2** |  | **Ovulation – cleavage – normal implantation – stem cells** | **Fertilization. Illustrations for contraceptive procedures.** |
| **3** |  | **The 2nd week of pregnancy - bilaminar germ disc** | **Pre-implantation embryology** |
| **4** |  | **The 3rd week of pregnancy – clinical features of early pregnancy** | **The embryonic membranes of the bilaminar germ disc** |
| **5** |  | **Causes and management of infertility** | **The gasrulation and trilaminar germ disc** |
| **6** |  | **The embryonic period** | **The growth of the germ disc and early organogenesis** |
| **7** |  | **The fetal period** | **Introduction to systemic embryology, the vertebrate sectional organization** |
| **8** |  | **Mid-term examination** | **Mid-term examination** |
| **9** |  | **Spermatogenesis and spermiogenesis** | **External morphology of human fetus** |
| **10** |  | **Ovarian follicles and ovarian cycle** | **Histological organization of the seminiferous tubules.** |
| **11** |  | **The human placenta** | **Seminal fluid analysis** |
| **12** |  | **Functions of the placenta** | **Histological criteria of ovarian follicles** |
| **13** |  | **Teratology** | **General organization of the placenta and umbilical cord** |
| **14** |  | **Birth defects** | **Histological features of normal placenta and umbilical cord** |
| **15** |  | **Prenatal diagnosis of fetal abnormalities** | **Ultrasound of congenital anomalies** |

**Instructor Signature: Dean Signature:**