

**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**](mailto:Hayder_67_67@yahoo.com) | | | | |
| **Title** | **Assistant Professor** | | | | |
| **Course Coordinator** | **Hayder Jawad Kathem Mubarak** | | | | |
| **Course Objective** | 1. **To study the details of morphogenetic and developmental changes of organs formation in the various body systems.** 2. **To identify the commonest forms of congenital malformations .** | | | | |
| **Course Description** | **Second 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**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **week** | **Date** | **Topics Covered** | **Lab. Experiment Assignments** | **Notes** |
| **1** |  | **Development of the axial skeleton and limbs.** | **Morphogenesis of somites.** |  |
| **2** |  | **Derivatives of the pharyngeal arches, pouches and clefts. Development of the facial prominences.** | **skull and limb buds.** |
| **3** |  | **Derivatives of the foregut.** | **Morphologenesis of the pharyngeal region and the face.** |
| **4** |  | **Derivatives of the midgut and hingut.** | **Morphogenesis of the gut tube.** |
| **5** |  | **Ontogeny of the lung bud.** | **Derivatives of the gut tube.** |
| **6** |  | **The kidney systems. Embryonic origin of the ureter, urinary bladder and urethra.** | **Morphogenesis of the respiratory system.** |
| **7** |  | **Sexual differentiation of gonads and genital ridges.Sexual differentiation of external genitalia.** | **Morphogenesis of the urogenital ridges.** |
| **8** |  | **Mid-term examination (theory)** | **Midterm examination** |
| **9** |  | **Development of the spinal cord.** | **Development of the ectodermal neural plate.** |
| **10** |  | **Development of the brain: The rhombencephalon. The mesencephalon and telencephalon.** | **Morphogenesis of the neural tube.** |
| **11** |  | **Development of the eye.** | **Morphogenesis of the eye.** |
| **12** |  | **Development of the ear.** | **Morphogenesis of the ear.** |
| **13** |  | **Cardiovascular development.** | **Morphogenesis of the cardiovascular development.** |
| **14** |  | **Ontogeny of the heart.** | **The fetal heart.** |
| **15** |  | **Over view.** | **Over view** |

**Instructor Signature: Dean Signature:**