**Republic of Iraq**

 **The Ministry of Higher Education**

 **& Scientific Research**



**University: Alqadisiya University**

**College: College of Biotechnology**

**Department:Medecal Biotechnology**

**Stage:First stage**

**Lecturer name:** **Dr.Ghoson M.A.**

**Academic Status:Lecturere**

**Qualification:PHD**

**Place of work: Alqadisiya University**

**Course Weekly Outline**

|  |  |
| --- | --- |
| **Course Instructor** | Dr.Ghoson Mohammed Ali  |
| **E\_mail** |  |
| **Title** | Type here course title |
| **Course Coordinator** | Type here the came of course coordinator |
| **Course Objective** | Type here vourse objectives |
| **Course Description** | Type here course description |
| **Textbook** | **Campbell Biology 10th ed. Pearson Benjamin Cummings, USA** |
| **References** | Type here the reference (title,author,edition,publisher,year) |
| **Course Assessment** | Term Tests | Laboratory | Quizzes | Project | Final Exam |
| As (35%) | As (15%) | As (10%) | ---- | As (40%) |
| **General Notes** | Type here general notes regarding the course |

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**Course weekly Outline**

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| --- | --- | --- | --- | --- |
| **week** | **Date** | **Topics Covered** | **Lab. Experiment Assignments** | **Notes** |
| **1** |  | **INTRODUCTION & Orientation** | Laboratory safety rules |  |
| **2** |  | **WATER AND LIFE** | The Microscope |  |
| **3** |  | **CARBON AND THE MOLECULAR DIVERSITY OF LIFE** | The cell |  |
| **4** |  | **CARBON AND THE MOLECULAR DIVERSITY OF LIFE** | Macromolecules |  |
| **5** |  | **THE STRUCTURE AND FUNCTION OF LARGE BIOLOGICAL****MOLECULES** | Biological membrane |  |
| **6** |  | **A TOUR OF THE CELL** | Midterm Exam |  |
| **7** |  | **MEMBRANE STRUCTURE AND FUNCTION** | Enzymes |  |
| **8** |  | **AN INTRODUCTION TO METABOLISM** | Metabolism |  |
| **9** |  | **CELLULAR RESPIRATION AND FERMENTATION** | Cell division |  |
| **10** |  | **PHOTOSYNTHESIS** | Animal tissues |  |
| **11** |  | **THE CELL CYCLE** | Plant tissues |  |
| **12** |  | **THE MOLECULAR BASIS OF INHERITANCE** | Plant tissues |  |
| **13** |  | **FROM GENE TO PROTEIN** | Plant tissues |  |
| **14** |  | **VIRUSES** | Plant tissues |  |
| **15** |  | **Exam.**  | **Exam.** |  |
| **16** |  |  |  |  |

**Instructor Signature: Dean Signature:**

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**Course Weekly Outline**

|  |  |
| --- | --- |
| **Course Instructor** | **Dr.Ghoson Mohammed Ali**  |
| **E\_mail** |  |
| **Title** | **General Biology I I** |
| **Course Coordinator** | **Type here the came of course coordinator** |
| **Course Objective** | **Type here vourse objectives** |
| **Course Description** | **Type here course description** |
| **Textbook** | **Campbell Biology 10th ed. Pearson Benjamin Cummings, USA** |
| **References** | **Type here the reference (title,author,edition,publisher,year)** |
| **Course Assessment** | **Term Tests** | **Laboratory** | **Quizzes** | **Project** | **Final Exam** |
| **As (35%)** | **As (15%)** | **As (10%)** | **----** | **As (40%)** |
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**Course weekly Outline**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **week** | **Date** | **Topics Covered** | **Lab. Experiment Assignments** | **Notes** |
| **1** |  | **Resource acquisition and transport in vascular plants** | **Plant Diversity** |  |
| **2** |  | **Water and minerals are transported from roots to shoots** | **Plant Diversity** |  |
| **3** |  | **Stomata help regulate the rate of transpiration** | **Plant Anatomy** |  |
| **4** |  | **Sugars are transported from leaves and other sources to sites of use or storage** | **Plant physiology** |  |
| **5** |  | **The symplast is highly dynamic** | **The Prokaryotes** |  |
| **6** |  | **Angiosperm reproduction & biotechnology** | **Midterm Exam** |  |
| **7** |  | **Plant responses to internal and external signals** | **Enzymes** |  |
| **8** |  | **Animal reproduction** | **Kingdom Protista** |  |
| **9** |  | **Animal development** | **Kingdom Protista** |  |
| **10** |  | **Circulation and gas exchange** | **Kingdom Fungi** |  |
| **11** |  | **The immune system** | **The Invertebrates** |  |
| **12** |  | **Osmoregulation and excretion** | **The Invertebrates** |  |
| **13** |  | **Neurons, synapses and signalling** | **The Vertebrates** |  |
| **14** |  | **Sensory and motor mechanisms** | **Animal tissue**  |  |
| **15** |  | **Exam.**  | **Exam.** |  |

**Instructor Signature: Dean Signature:**