**University: Alqadisiya University**

**College: College of Biotechnology**

**Department:Medecal Biotechnology**

**Stage:First stage**

**Lecturer name:** **Mohammed Al-Askeri**

**Academic Status: lecturer**

**Qualification:PHD**

**Place of work: Alqadisiya University**



**Republic of Iraq The Ministry of Higher Education**

 **& Scientific Research**

**Course Weekly Outline**

|  |  |
| --- | --- |
| **Course Instructor** | Dr.Mohammed Al-Askeri |
| **E\_mail** | Type your mail as example mail@yahoo.com |
| **Title** | Introduction to Biotechnology |
| **Course Coordinator** | Type here the came of course coordinator |
| **Course Objective** | Understand what is Biotechnology and how it was developed.- Appreciate the importance of biotechnology in our lives- Introduce biotechnology techniques and their use. |
| **Course Description** | This module is a mandatory course for the Biotechnology students.Biotechnology is defined as the use of living organisms or their products to enhance our livesand our environment. It is an introductory course and offers a broad view of biotechnology including an integration of historical and modern topics in biotechnology |
| **Textbook** | Biotechnology: An Introduction, 2005Author(s)/Editor(s): Susan R. BarnumPublisher: Thomson Books/ColeISBN: 0-534-49296-7 |
| **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 |

**University: Alqadisiya University**

**College: College of Biotechnology**

**Department:Medecal Biotechnology**

**Stage:First stage**

**Lecturer name:** **Mohammed Al-Askeri**

**Academic Status: lecturer**

**Qualification:PHD**

**Place of work: Alqadisiya University**

**Republic of Iraq**

**The Ministry of Higher Education**

**& Scientific Research**



**Course weekly Outline**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **week** | **Date** | **Topics Covered** | **Lab. Experiment Assignments** | **Notes** |
| **1** |  | What is Biotechnology? (ancient, classical and modern)  |  |  |
| **2** |  | Nature of genes, first cloning and recombinant DNA  |  |  |
| **3** |  | Basic principles of recombinant DNA technology  |  |  |
| **4** |  | Molecular Techniques: Constructing and screening of DNA |  |  |
| **5** |  | libraries, reporter genes and blotting. |  |  |
| **6** |  | Microbial Biotechnology  |  |  |
| **7** |  | Plant Biotechnology  |  |  |
| **8** |  | Animal Biotechnology  |  |  |
| **9** |  | Marine Biotechnology  |  |  |
| **10** |  | Genomics and Beyond |  |  |
| **11** |  | Microbial Biotechnology  |  |  |
| **12** |  | Plant Biotechnology  |  |  |
| **13** |  | Medical Biotechnology  |  |  |
| **14** |  | DNA Profiling and molecular Forensics  |  |  |
| **15** |  | Regulation, Patent and Society |  |  |
| **16** |  |  |  |  |

**Instructor Signature: Dean Signature:**