

**University: Al-Qadesiayh**

**College: Biotechnology**

**Department: Agri.biotechnology**

**Stage: Second**

**Lecturer name:Muhannad.M.sahib**

**Academic Status:Asistant Prof**

**Qualification:PhD**

**Place of work:College Biotechnology**

**Republic of Iraq**

**The Ministry of Higher Education**

**& Scientific Research**

**Course Weekly Outline**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course Instructor** | Muhannad Mohammed sahib | | | | |
| **E-mail** | [Muhannad\_sahib@yahoo.com](mailto:Muhannad_sahib@yahoo.com) | | | | |
| **Title** | Plant Physiology | | | | |
| **Course Coordinator** | course | | | | |
| **Course Objective** | Plant physiology is the study of the functions and process occurring in plants, the vital processes in plant and how plant work | | | | |
| **Course Description** | ----------------------- | | | | |
| **Textbook** | ------------------------ | | | | |
| **References** | **Plant Physiology, 3rd ed (Aug 30 2002)**  by Lincoln Taiz and Eduardo Zeiger | | | | |
| **Course Assessment** | Term Tests | Laboratory | Quizzes | Project | Final Exam |
| As (27%) | As (13%) | ----- | ---- | As (60%) |
| **General Notes** |  | | | | |



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| --- | --- | --- | --- | --- |
| **week** | **Date** | **Topics Covered** | **Lab. Experiment Assignments** | **Notes** |
| **1** | **4/10** | **Introduction of plant physiology** ,**Plant cell organelles** |  |  |
| **2** | **11/10** | **Water properties – Water movement**, **Types of solutions and colloids** ,**Properties of colloids** |  |  |
| **3** | **18/10** | **Water-Physical Relations in Plant Cell, Diffusion and Osmosis ,Plant cell as an osmotic system** |  |  |
| **4** | **25/10** | **Theories of water absorption and transport, Ascent of sap,** **Transpiration** |  |  |
| **5** | **1/11** | **Mineral Nutrition in plant** |  |  |
| **6** | **8/11** | **First mid Term Exam** |  |  |
| **7** | **15/11** | **Photosynthesis, Light-chloroplasts**, **Light reactions** |  |  |
| **8** | **22/11** | **CO2 Assimilation**, **Factors affecting photosynthesis** |  |  |
| **9** | **29/11** | **Cellular Respiration**, **Glycolysis and Kreb’s cycle**, **Oxidative Phosphorylation ,Factors affecting on Respiration** |  |  |
| **10** | **6/12** | **Plant hormones: Biochemistry and metabolism** |  |  |
| **11** | **13/12** | **Auxins** |  |  |
| **12** | **20/12** | **Cytokines** |  |  |
| **13** | **27/12** | **Gibberellins** |  |  |
| **14** | **3/1** | **Absscic acid** |  |  |
| **15** | **10/1** | **second mid Term Exam** |  |  |
| **16** |  |  |  |  |

**Instructor Signature: Dean Signature:**