

Module (Course Syllabus) Catalogue 2023-2024

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| College/ Institute | Khabat Technical Institute | |
| Department | Medicinal Plants Production - Evening | |
| Module Name | Plant Taxonomy | |
| Module Code | PLT302 | |
| Degree | Technical Diploma <input checked="" type="checkbox"/> | Bachelor <input type="checkbox"/> High Diploma <input type="checkbox"/> Master <input type="checkbox"/> PhD <input type="checkbox"/> |
| Semester | Third | |
| Qualification | Master | |
| Scientific Title | Lecturer | |
| ECTS (Credits) | 6 | |
| Module type | Prerequisite <input type="checkbox"/> Core <input checked="" type="checkbox"/> | Assist. <input type="checkbox"/> |
| Weekly hours | | |
| Weekly hours (Theory) | (1) hr Class | (2) Total hrs Workload |
| Weekly hours (Practical) | (3) hr Class | (4.5) Total hrs Workload |
| Number of Weeks | 12 | |
| Lecturer (Theory) | Bilal Ibrahim Muhammed | |
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| Lecturer (Practical) | Bilal Ibrahim Muhammed Shwan Mohamad Baper | |
| E-Mail & Mobile NO. | bilal.muhammed@epu.edu.iq shwan.baper@epu.edu.iq | 07504699939 07513238524 |
| Websites | https://epuit.net/cbook/portal/login.php | |

Course Book

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| Course Description | The student will investigate the fundamental concepts of plant taxonomy from an approach and participate in a laboratory and field that demonstrate this study. The course is for students studying agriculture. |
| Course objectives | Plant taxonomy is the science that finds, identifies, describes, classifies, and names plants. It is also known as systematic botany. It helps to identify and name various plants on the earth. |
| Student's obligation | Students are asked to do mandatory the following duties during the 12 weeks of the semester: 1- Quiz. 2- Weekly practical report. 3- Homework. 4- Seminars. 5- Semester report. 6- Lab. activity. |
| Required Learning Materials | Computer, PowerPoint, Data show, white board, field and laboratory |
| Specific learning outcome: | <ul style="list-style-type: none">• To know all plants on the earth with their names.• To build up a reference system for plants for easy identification , naming and classification.• To understand the facts of evolution of different plants.• To give every plant an universal name to avoid confusions in naming of plants. |

Course References:

- 1- Adrian D. Bell, 1991, Plant Form: An illustrated guide to flowering plant morphology, Oxford University Press, Oxford.
- 2- Elias, Thomas S. 1980. The complete trees of North America: field guide and natural history. Van Nostrand Reinhold Co., New York.
- 3- Fernald, M. L. 1970. Gray's Manual of Botany: A handbook of the flowering plants and ferns of the central and northeastern United States and adjacent Canada, Van Nostrand Reinhold Co., New York.
- 4- Jones, George Neville. 1963. Flora of Illinois, 3d ed. American Midland Naturalist, University of Notre Dame, Notre Dame, Indiana.
- 5- Kirt, Russell R. 1993. Prairie plants of northern Illinois: identification and ecology. Stipes Publ., Champaign.

| Course topics (Theory) | Week | Learning Outcome |
|---|-------------|-------------------------|
| Introduction to Plant Taxonomy | 1 | |
| Principles of Classification | 2 | |
| Nomenclature | 3 | |
| Plant Identification | 4 | |
| Plant Morphology | 5 | |
| Plant Anatomy | 6 | |
| Plant Structures | 7 | |
| Taxonomic Methods and Techniques | 8 | |

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| Taxonomic Literature | 9 | |
| Plant Evolution and Phylogeny | 10 | |
| Taxonomy and Conservation | 11 | |
| Recent Advances in Plant Taxonomy | 12 | |
| Practical Topics | Week | Learning Outcome |
| Plant Identification | 1 | |
| Plant Collection | 2 | |
| Plant Dissection | 3 | |
| Field Surveys and Data Collection | 4 | |
| Plant Pressing and Drying | 5 | |
| Plant Diversity Surveys | 6 | |
| Taxonomic Projects | 7 | |
| Laboratory Work | 8 | |
| Order characters | 9 | |
| Family characters | 10 | |
| Some families in monocot | 11 | |
| Some families in dicot | 12 | |

Questions Example Design

Q1/ Define the plant taxonomy, dissection and drying.

Q2/ Describe the historical development of plant taxonomy,

Q3 What is the primary goal of plant taxonomy, and why is it important in the field of botany?

Q4/ Why is it important to know the family characters?

Q5/ Write the classification of plant structures.

Extra notes:

External Evaluator: