

## Course Description form Medicinal and Stimulant Plants

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| <b>Course Name:</b>  |
| Medicinal and Stimulant Plants   |
| <b>Course Code:</b>  |
| MEDS401  |
| <b>Semester/Year</b>   |
| First / 2025   |
| <b>Date this description was prepared</b>  |
| 15 January 2025  |
| <b>Available attendance forms</b>  |
| Compulsory   |
| <b>Credit Hours (total) / Number of Units (Total):</b>   |
| Number of hours = 2 and practical 3 , number of units = 3  |
| <b>Name of the course administrator (if more than one name is mentioned)</b>   |
| Dr. Ahmed Yassin Hassan  |
| <b>Course Objective</b>  |
| This course aims to deepen the student's knowledge of the sections of medicinal plants according to their forms, uses and chemical compounds, the impact of environmental factors on the growth of plants, the synthesis of biochemical compounds in medicinal plants , and the storage and preservation of medicinal plants after harvest   |
| <b>Teaching and Learning Strategies</b>  |
| <ol style="list-style-type: none"><li>1- Provide students with additional basics and topics related to previous learning outcomes to learn the foundations of learning and application in the curriculum of the subject of medicinal plants.</li><li>2- Enabling students to obtain knowledge of plant types according to their types and distribution in different environments .</li><li>3- Enable students to gain knowledge of how plants respond to optimal environmental conditions for growth and formation of biochemical compounds</li><li>4- Enabling students to know the ways and means to improve the agricultural reality and the quantitative and qualitative production of medicinal plants.</li></ol> |

| Course Structure |         |   |                                |   |                   |
|------------------|---------|---|--------------------------------|---|-------------------|
| Week             | Credits | Intended Learning Outcomes  | Unit or Topic Name             | Teaching*method                                       | Evaluation Method |
| 1                | 2       | Introduction to Medicinal Plants and their Economic Importance                      | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam:             |
| 2                | 2       | Division of medicinal plants according to their therapeutic and chemical importance | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam:             |
| 3                | 2       | Volatile oils and their installation  | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam:             |
| 4                | 2       | Alkaloids and their composition   | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam:             |
| 5                | 2       | Clycosides and their composition  | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam:             |
| 6                | 2       | Tannins and their composition   | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam:             |
| 7                | 2       | Biological pathway for the synthesis of plant active substances                     | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam:             |
| 8                | 2       | Methods of growing and propagating medicinal plants                                 | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam:             |
| 9                | 2       | Environmental factors affecting growth and production : temperatures and light      | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam:             |

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| 10 | 2 | Environmental factors affecting growth and production : soil and water  | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam: |
| 11 | 2 | The importance of genetic factors in the growth and production of medicinal plants                                    | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam: |
| 12 | 2 | Scientific names and the environment of growth of each of them  | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam: |
| 13 | 2 | Date of picking or cutting the economic part containing the active substances   | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam: |
| 14 | 2 | Conditions for storing medical forms and drugs and according to their content of medical vehicles                     | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam: |
| 15 | 2 | Identify the most important laboratory equipment and equipment for the extraction and estimation of active substances | Medicinal and Stimulant Plants | Explanation and presentation of the model and lecture | Exam: |