

**University Name: Diyala**  
**College Name: Agriculture**  
**Department Name: Field Crop Sciences**  
**Grade: Fourth**  
**Lecturer's Full Name: Ahmed Yassin Hassan**  
**Academic Title: Professor**  
**Academic Qualification: PhD**  
**Work Location: College of Agriculture / University of Diyala**

بسم الله الرحمن الرحيم



Republic of Iraq

Ministry of Higher Education and Scientific Research

Scientific Supervision and Evaluation Authority

### Subject plan completion form

Ahmed Yassin Hassan					Name
Ahmedhassan@uodiyala.edu.iq					Email
Medicinal Plants					Course Title
the classification of plants according to their environment, types, and uses. Active compounds and their types in medicinal plants. A study of the environmental factors affecting their growth, production, and improvement of their biological compounds					The course covers
To teach students about the most important medicinal plants with economic and therapeutic returns, and how to grow and produce them according to their living requirements					Course Objectives
How to cultivate and grow medicinal plants - Methods of cultivation and propagation - Improving their biologically active metabolites - Studying their environment according to their life requirements -					Basic Course Details -
Fawzi Taha Qutb Hussein. 1979. Medicinal Plants, Their Cultivation and -1 - Components Hermann Lichtenstein. 1981. Medicinal Plants2- - Ali Al-Rawi. 1966. Poisonous Plants in Iraq 3 - - Dr. Nasser Safar. Medicinal Plants Among the Arabs4 - Medicinal Plants by Dr. Bassem Kazim Breisem- 5 - Mossa, J.; Al-Yahya, M. A. and Al-Meshal 19876 - - Batanouny, K. H. 1999. Wild Medicinal Plants7- -					Textbooks
translated scientific books on medicinal plants from the Internet					External sources
Final Exam	Project	Daily Exams	Lab	Semester	Chapter Estimates
			15%	35%	
					Additional information

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## Subject lesson plan form

Notes	Practical Material	Theoretical Material	History	Week
	Botanical, industrial, and therapeutic classification of medicinal plants	Introduction to medicinal plants and their economic importance	2024 / 10 / 4	1
	Methods of cultivating medicinal plants	Classification of medicinal plants according to their therapeutic and chemical importance	2024 / 10 / 11	2
	Extraction of essential oils	Volatile oils and their composition	2024 / 10 / 18	3
	Storage applications for drying and storage	Alkaloids and their composition	2024 / 10 / 25	4
	Preservation and storage of essential oils	Glycosides and their composition	2024 / 11 / 1	5
	Extraction of volatile oils	Tanins and their composition	2024 / 11 / 8	6
	First/Practical Exam	The biological pathway for the synthesis of active substances in plants	2024 / 11 / 15	7
	Aqueous and alcoholic extraction of medicinal plants	Methods of cultivation and propagation of medicinal plants	2024 / 11 / 22	8
	Methods for separating and extracting volatile oils	Environmental factors affecting their growth and production: temperature and light	2024 / 11 / 29	9
	Methods for estimating the content of active compounds in plant parts	Environmental factors affecting their growth and production: soil and water	2024 / 12 / 6	10
	Methods for separating and extracting alkaloids	Importance of genetic factors in the growth and production of medicinal plants	2024 / 12 / 13	11
	Methods for separating and extracting glycosides	Scientific names for them and the growth environment of each of them	2024 / 12 / 20	12
	Factors affecting the spoilage and decay of medicinal and aromatic	Date of picking or cutting the economic part containing the	2024 / 12 / 27	13

	plants	active substances		
	Methods for preserving plant parts and their biological compounds	Suitable conditions for storing samples and medical drugs according to their content of medical compounds	2024 / 1 / 3	14
	Second/Practical Exam	Identification of the most important laboratory devices and equipment for extracting and estimating active substances	2024 / 1 / 10	15

رائد

توقيع العميد  
أ.د. رائد ابراهيم خليل  
15/1/2025

توقيع الاستاذ  
أ.د. احمد ياسين حسن  
15/1/2025