IRAN UNIVERSITY OF MEDICAL SCIENCES

School of Pharmacy
Department of Pharmacognosy & Pharmaceutical Biotechnology

Course Title: Medicinal Plants (Practical, **M-Pharm**)
Credit: 1 credit, Monday (13-15)
***Prerequisite*:** Medicinal Plant (Theory)
Course Instructors: Dr. Paria Sharafi-Badr, Dr. Sajjad Nasseri, Dr. Mahsa Sabernavaei, Dr Mahdi Tavakoli zadeh
Responsible Instructor: Dr. Paria Sharafi-Badr (sharafibadr.pr@iums.ac.ir)

Course Description:

The class focuses on the safety, quality, and chemistry of plant products, highlighting characteristics related to human health and nutrition. Laboratory activities provide a primer on protocols used to analyze the quality and chemistry of raw botanical ingredients (herbs, medicinal plants, extracts), which are the type of analyses conducted by industry to assess quality. Students work in groups on specific products to assess quality and will report a product specification sheet.

Course Evaluation:

In Class Practitioner, Projects & Activities	25%
Final exam (multiple-choice questions, descriptive questions)	75%

Important Note:

Final Exam will be held as determined by the registrar's office.

Allowed absences are accepted provided students bring in documents for that and the related professor approves it. Acting against absences (excused or not) will be the professor's decision and the college's agreement and will be marked as an omission.

Semester Project(s):

More information will be determined during class discussions.

References:

1. Jackson, B.P. and Snowdon, D.W., 1990. *Atlas of microscopy of medicinal plants, culinary herbs and spices*. Belhaven Press.

Medicinal Plants (Practical, **M-Pharm) -2024 Course Table**

(Monday 13-15)

	Subject	Instructor(s)	Teaching methods	Date
1	Class grouping, Identification of pharmaceutical market samples Herbarium sample preparation method, Identification of plant & herbarium samples	Dr. Sharafi-Badr	Discussion Based Learning	08 Apr.
2	The principles of preparing plant powders for micrographs, Microscopic Identification of starch powders with different plant sources. Identification of plant & herbarium samples	Dr. Sharafi-Badr	Discussion Based Learning	15 Apr.
3	Identification of samples of plants & herbarium samples Microscopic Identification of zingiber	Dr. Sabernavaei	Discussion Based Learning	22 Apr.
4	Identification of plant samples & herbarium samples Microscopic Identification of Glycyrrhiza glabra	Dr. Sabernavaei	Discussion Based Learning	29 Apr.
5	Identification of plant samples & herbarium samples Microscopic Identification of Senna	Dr. Tavakoli zadeh	Discussion Based Learning	06 May
6	Identification of plant samples & herbarium samples Microscopic Identification of Calendula	Dr. Tavakoli zadeh	Discussion Based Learning	13 May
7	Identification of plant samples & herbarium samples Microscopic Identification of Datura	Dr. Nasseri	Discussion Based Learning	20 May
8	Identification of eight samples of plants & two herbarium samples Microscopic Identification of Atropa	Dr. Nasseri	Discussion Based Learning	27 May
9	Visiting the botanical garden			
Final Exam				