

School of pharmacy
Department of Pharmacognosy & Pharmaceutical Biotechnology

Course title: Pharmacognosy 1 (Practical, M-Pharm)

Credit: 1 credit, Sunday (13-15)

Prerequisite: Medicinal plant

Course Instructors: Dr. Mostafa Pirali Hamedani, Dr. Mahsa Sabernavaei, Dr. Sajjad Nasseri

Responsible Instructor: Dr. Mostafa Pirali Hamedani (piralihamedani.m@iums.ac.ir)

Course Description:

This course offers a foundation and explore the identification and determination of the amount of herbal compounds, get to know the basics of research in the field of pharmacognosy, be prepared to carry out herbal medicine controls, and also acquire skills in the field of extraction.

Course Evaluation:

In Class Practitioner & Quiz	30%
Final exam (multiple-choice questions, descriptive questions)	70%

Pharmacognosy 1 (Practical) -2025 Course Table

(Sunday 15-17)

	Subject	Instructor(s)	Teaching methods	Date
1	Introduction to Practical Pharmacognosy	Dr. Pirali	Laboratory Method	19 Oct.
2	Methods of extraction of natural compounds	Dr. Nasser	Laboratory Method	26 Oct.
3	Chromatographic Methods (TLC)	Dr. Nasser	Laboratory Method	2 Nov.
4	Chromatographic Methods (Column Chromatography)	Dr. Nasser	Laboratory Method	9 Nov.
5	Determining the amount of ash and water	Dr. Pirali	Laboratory Method	16 Nov.
6	Determining the amount of pectin	Dr. Pirali	Laboratory Method	23 Nov.
7	Starch extraction	Dr. Sabernavaei	Laboratory Method	30 Nov.
8	Determination of swelling coefficient /Mucilage test	Dr. Sabernavaei	Laboratory Method	7 Dec.
9	Identification tests for Alkaloids	Dr. Sabernavaei	Laboratory Method	14 Dec.
	Final Exam			21 Dec.

Note:

All classes will be held in Besarati (Eastern 7) street, North Shahin Boulevard

The absence hours of a student should not exceed 4/17 in theoretical, 2/17 in practical and laboratorial. Otherwise, the score for that course or section will be considered as zero.

Note 1: allowed absences are accepted provided that students bring in documents for that and the related professor approves it. Acting against absences (either excused or not) will be the decision of the professor and agreement of the college.

References:

- ١- *Trease and Evans pharmacognosy*. Evans WC.Saunders. Edinburg. The latest edition.
- ٢- *Harborne AJ*. Phytochemical methods a guide to modern techniques of plant analysis. Springer science & business media; 1998 Apr 30.