



MEDICAL UNIVERSITY OF PLOVDIV

FACULTY OF PHARMACY

DEPARTMENT OF PHARMACOGNOSY AND PHARMACEUTICAL CHEMISTRY

Protocol № 4/02.07.2024

CURRICULUM FOR PRACTICAL EXERCISES OF PHARMACOGNOSY

PART II (VII semester) 2024/2025

№	TOPIC	HOURS
1.	Macroscopic and microscopic analysis of herbal drugs derived from essential-oil plants, containing mainly linear, one- and bicyclic monoterpenes.	6
2.	Macroscopic and microscopic analysis of herbal drugs derived from essential-oil plants, containing mainly aromatic monoterpenes, derivatives of phenylpropane, sesquiterpenes and sesquiterpene lactones.	6
3.	Extraction and TLC analysis of <i>Matricariae aetheroleum</i> .	6
4.	Seminar: Medicinal plants and phytopharmaceutical products containing essential oils.	6
5.	Macroscopic and microscopic analysis of medicinal plants containing diterpenes, triterpenes, tetraterpenes, resins, balsams and iridoids.	6
6.	Macroscopic and microscopic analysis of medicinal plants containing sterols, cardiac glycosides, steroidal and triterpenoid saponins.	6
7.	TLC and spectrophotometric analysis of cardiac glycosides from <i>Digitalis purpureae folium</i> .	6
8.	Test: Medicinal plants and phytopharmaceutical products containing sterols, cardiac glycosides, steroidal and triterpenoid saponins.	6
9.	Macroscopic and microscopic identification of plant substances containing amines, carbocyclic alkaloids, piperidine, pyridine, tropane, quinolizidine and quinoline alkaloids.	6
10.	Macroscopic and microscopic analysis of medicinal plants containing isoquinoline, indole, purine alkaloids and steroidal glycoalkaloids.	6
11.	TLC and HPLC analysis of caffeine from <i>Theae folium</i> .	6
12.	Herbal drugs and medicinal products used for diseases of cardiovascular and nervous system, the respiratory tract, gastrointestinal tract, liver, biliary tract, urinary system, for treatment of cancer and for external use.	6
13.	Test: Medicinal plants and phytopharmaceutical products containing alkaloids.	6
14.	Macroscopic identification of herbal drug mixtures containing 10 ingredients. Microscopic identification of single herbal powders (review).	6
15.	Practical exam.	6

Head of the Department:

/ Assoc. Prof. K. Ivanov, PhD /