

Pharmacognosy Practicals (4 hours/ week)

I.

1. Introduction, safety rules. Macroscopic and microscopic knowledge. European Pharmacopoeia.
2. General methods in pharmacognosy.
3. Vegetable drugs containing carbohydrates (Starches, mucilages, etc.).
4. Plant acids and their drugs.
5. Plant lipids and their drugs.
6. Phenolglycosides, flavonoids, anthocyanins and chief drugs I.
7. Phenolglycosides, flavonoids, anthocyanins and chief drugs II.
8. Lignans, Coumarins and diarylheptanes.
9. Tannins and chief tannin drugs I. Methods used in tannin chemistry.
10. Tannins and chief tannin drugs II. Mass spectrometry of tannins, determination of procyanidins.
11. Anthraglycoside containing crude drugs I. Chemical tests.
12. Anthraglycoside containing crude drugs II. Quantitative determinations.
13. Terpenophenoloid and phloroglucine derivatives.
14. Personal task.

II.

Bitter substances of plants. Classification, reactions, bitterness value.

Essential oil containing drugs (Lamiaceae, Asteraceae, Apiaceae) I.

Essential oil containing drugs (Lamiaceae, Asteraceae, Apiaceae) II.

Saponins and chief saponin drugs.

Methods used in the identification and quality control of saponins.

Cardioactive glycosides and chief drugs.

Methods used in the analyses of cardioactive glycosides.

Tropane, piridine and piperidine alkaloid containing drugs I.

Tropane, piridine and piperidine alkaloid containing drugs II.

Quinoline, isoquinoline and morphine group alkaloids, their chief drugs I.

Quinoline, isoquinoline and morphine group alkaloids, their chief drugs II.

Indole, purine alkaloids I.

Indole, purine alkaloids II.

Personal task.