



CURRICULUM FOR LECTURES PHARMACOGNOSY PART II (SEMESTER VII)

№	TOPIC	HOURS
1.	Terpenes - classification, biogenesis, general description and examples of different types of monoterpenes and sesquiterpenes.	3 hours
2.	Essential oils - classification, general description, effect and application. Herbal drugs and essential oils which contain mainly linear, one- and bicyclic monoterpenes, sesquiterpenes. Semisynthetic substances of monoterpenes.	3 hours
3.	Essential oils - herbal drugs and essential oils which contain mainly aromatic monoterpenes and derivatives of phenylpropane.	3 hours
4.	Diterpenes, triterpenes, tetraterpenes, polyterpenes and herbal drugs which contain them. Resins and balsams - general description, representatives and plant sources. Semisynthetic substances and medicinal products.	3 hours
5.	Monoterpenoids - iridoids. General description and classification. Carbocyclic iridoids, secoiridoids, valepotriates and medicinal plants which contain them. Sesquiterpenoids - sesquiterpene lactones. General description, classification, effect, application and herbal drugs which contain them. Semisynthetic substances and medicinal products.	3 hours
6.	Triterpenoids - steroids. Biogenesis, general description and classification. Sterols and herbal drugs which contain them. Medicinal products based on sterols. Cardiac glycosides - general description, classification, effect and application. The structure - activity relationship. Medicinal plants which contain cardenolides - Digitalis and Strophanthus type. Semisynthetic substances and medicinal products.	3 hours
7.	Saponins - general description, properties and classification. Steroidal saponins, triterpenoid saponins and herbal drug which contain them. Semisynthetic substances and medicinal products based on sterols and steroidal saponins.	3 hours
8.	Alkaloids - classification, biogenesis and general description. Herbal drugs which contain amides and alkaloids with nitrogen atom in the side-chain. Semisynthetic substances and medicinal products.	3 hours
9.	Pyrrolidine, piperidine, pyridine and tropane alkaloids and herbal drugs which contain them. Semisynthetic substances and medicinal products.	3 hours
10.	Quinoline and quinolizidine alkaloids and herbal drugs which contain them. Semisynthetic substances and medicinal products.	3 hours
11.	Isoquinoline alkaloids – biogenesis, classification and herbal drugs which contain them. Semisynthetic substances and medicinal products.	3 hours
12.	Indole alkaloids – biogenesis, classification and herbal drugs which contain them. Semisynthetic substances and medicinal products.	3 hours
13.	Imidazole, purine and steroidal alkaloids and herbal drugs which contain them. Semisynthetic substances and medicinal products.	3 hours
14.	Herbal drugs and medicinal products used for diseases of the respiratory tract, gastrointestinal tract, liver and biliary tract. Herbal drugs and medicinal products used for urinary disorders and cardiovascular diseases.	3 hours

15.	Herbal drugs and medicinal products which affect the nervous system. Herbal drugs and medicinal products used for cancer treatment and for external use.	3 hours
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Total 45 hours

The curriculum was approved by the Department council with Protocol № 01/09.01.2023.

Prepared by:

Approved by:

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