

CALENDAR-THEMATIC PLAN
Independent work on the elective course
"Control Quality of Drugs" for students

IV year of the Faculty of Pharmacy for the 7th semester of 2021/2022 academic year

№ п/п	Topic	Hours
1	Modern methods of pharmaceutical analysis, its specific features and main criteria. Ways to establish the quality of medicines. Testing for the maximum content of impurities by HFC.	5
2	Reactions for identification of multicomponent drugs by cations and anions.	5
3	Identification reactions of multicomponent drugs by analytical-functional groups.	5
4	Quality control of unstable drugs and dosage forms and perishable drugs.	5
5	Quality control of medicines in pharmacies. Regulatory documentation governing the quality control of medicines. Express analysis of dosage forms. Quality control of drugs of intrapharmacy production. Quality control of concentrated solutions, powder dosage mixtures, liquid dosage forms, eye drops containing inorganic and organic drugs, injectable solutions of pharmacy production, drugs of ointment consistency, determination of homogeneity of ointments, their qualitative and quantitative quality control	5
6	Control of medicines of industrial production. Quality control of tablet forms of drugs. Quality control of injectable drugs of industrial production.	5
7	Physical, physicochemical methods of quality control of medicines. Physico-chemical methods of control of multicomponent drug mixtures without prior and with preliminary separation of components. Chromatographic methods of research of medicines. Quality control of medicines by physical properties, refractometric and titrometric, titrometric and refractometric, chromatographic, photocolometric, spectrophotometric methods	5
8	Pharmaceutical analysis in biopharmacy and pharmacokinetics. General information on biopharmacy and pharmacokinetics. The concept of biopharmaceutical factors. Ways to establish the bioavailability of drugs. The main tasks and features of biopharmaceutical analysis. Drug metabolism. Test methods used in biopharmaceutical analysis.	5
Total		40