evel: master	
ourse title: Applied Infra-Red Spectroscopy	
tatus: elective	
CTS : 5	
equirements: none	
earning objectives	
o introduce students to the technical aspects of the transmission and reflection infra bectroscopy, as well as the conditions for recording infrared spectra. Training student olving problems in the field of application of infrared spectroscopy. Analysis of diff hysical and chemical properties of materials. Application of mathematical and computation technods for processing and interpretation of infrared spectra.	a red is for ferent tional
earning outcomes tudent will be able to describe and explain the theoretical principles of modern infrared bectroscopy and explain the possibility of extracting chemical information from the infrare bectra. Apply mathematical equations and software for processing of infrared spectra. Prop beasure transmission and reflection spectra of samples in different forms.	d berly
yllabus	
heoretical instruction	
he theoretical basis of IR spectroscopy, transmission techniques, attenuated total reflection techniques ATR, diffusion reflection technique DRIFT, Near Infrared region, the far-infregion, IR spectroscopy and chemometrics. The application of infrared spectroscopy for lentification of compounds and structural analysis. IR spectroscopy in quantitative analysis	ction rared r the

Weekly teac	Other:					
Lectures:	Exercises:	Other forms of	Student research:			
3	3	teaching: 1				