MASTER`S PROGRAMME CLINICAL CHEMISTRY

1ST YEAR OF STUDY, 1ST SEMESTER

COURSE TITLE		DRUG DESIGN	
COURSE CODE			
COURSE TYPE		full attendance/ tutorial	
COURSE LEVEL		2 nd cycle (master's degree)	
YEAR OF STUDY, SEMESTER		1 st year of study, 1 st semester	
NUMBER OF ECTS CREDITS 6		6	
NUMBER OF HOURS PER WEEK		4 (2 lecture hours + 2 seminar hours)	
NAME OF LECTURE HOLDER		Mangalagiu Ionel	
NAME OF SEMINAR HOLDER		Mangalagiu Ionel	
Prerequisites		Advanced level of English	
A GENERAL AND COURSE-SPECIFIC COMPETENCES			
General competences:			
	Course-specific competences:		
	Basically knowledge's concerning qualitative and quantitative correlation between Synthesis,		
	Structure and Biologically Active Compounds (SAR and QSAR).		
В	LEARNING OUTCOMES		
	At the end of the course students will have solid knowledge concerning SAR, mechanism of action,		
	synthesis and biological activity in related with different classes of drugs/ biologically active		
	compounds.		
С	LECTURE CONTENT		
	1) Fundamental knowledge's of drug design. SAR and QSAR		
	2) Design in the class of chemotherapeutic compounds		
	3) Design in the class of biologically active compounds used in diseases of central nervous system		
_	4) Design in the class of biologically active compounds used in hypertensive disesses		
D	RECOMMENDED READING FOR LECTURES		
	1. Grahman, P.L. An introduction to medicinal chemistry, 2nd ed.; Oxford University Press, 2001.		
	2. Silverman, R.B. The Organic Chemistry of Drug Design and Drug Action, Academic Press, New		
	YOR, 1992.		
	3. Nogrady, 1. Medicinal Chemistry, Oxford University Press: New York, NY, USA, 1998.		
4. Publications Mangalagiu: 1995-2020.			
E PRACTICAL WORKS AND SEMINAR CONTENT			
Labor protection. Presentation of laboratory works.			
	Design in the suitamide class. Homosuitamida.		
	Anumicrobials. Design. 2- (2- (2,0-bis (2-methoxy-2-oxoethoxy) phenyi) -2-oxoethyi) phinalazin-2-		
	Tuberculosis Design 3.5-Bis- (chloromethylpyridin) acetophenone		
	Antineonlastic Design 2- (1H-imidazol-1-v/) -N- (quinolin-8-v/) acetamide		
	Hypnotics and sedatives. Design, Barbituric acid or Phenothiazine derivatives		
	Analgesic-antipyretic, Design, Pyrazolones,		
	Final test. Evaluation of results.		
F	RECOMMENDED READING FOR PRACTICAL WORKS AND SEMINARS		
	1. Valette, G & Co. Medicaments Organiques de Synthese, Vol. 1-7. Ed. Masson et C ^{-ie} Paris		
	1969-1976.		
	2. Publications Mangalagiu: 1995-2020		
G EDUCATION STYLE			
LEA	RNING AND TEACHING METHODS	Mixed	
ASSESSMENT METHODS		Conditions: Practical works and seminarium are compulsory.	
		Evaluation: Written examination during semester	
		Written examination at the final of semester	
		Marks: scale: 1 to 10	
		20 % - evaluation during semester	
		80%- final exam	
LANGUAGE OF INSTRUCTION		English	