

(Table 5.2) Course unit description

Study program : Chemistry			
Type and level of studies: PhD in chemistry			
Course unit: Chemistry of Heterocyclic Compounds			
Teacher in charge : Prof. Dr Zorica Bugarčić			
Language of instruction: English			
ECTS: 10			
Prerequisites: entered the second or the third year of study program			
Semester: Winter semester (3rd year) or summer semester(2nd year)			
Course unit objective The aim of this course is to provide students with modern knowledge about the most important classes of heterocyclic compounds, as well as about significant chemical transformations of these compounds and synthetic methods for their preparation.			
Learning outcomes of Course unit After completing this course students will have necessary theoretical knowledge about cyclization reactions for preparation of heterocyclic compounds. In addition, they will be able to apply knowledge gained in scientific research through the lectures, independent seminar papers and tests.			
Course unit contents <i>Theoretical classes:</i> Nomenclature of heterocyclic compounds. Five-membered rings with one heteroatom. Six-membered rings with one heteroatom. Five-membered rings with two heteroatoms. Six-membered rings with two heteroatoms. Condensed heterocyclic systems. Seven-membered heterocyclic systems.			
Literature 1.Heterocyclic Chemistry, J. A. Joule, G. F. Smith, Chapman and Hall, 1972.			
Number of active teaching hours			Other classes
Lectures: 5	Practice:	Other forms of classes	Independent work: / /
Teaching methods Lectures, seminars, colloquiums			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	10	oral examination	15
practical classes/tests		written examination	15
Seminars/homework	20	
Project			
Other (colloquiums)	40		
Grading system			
Grade	No. of points	Description	
10	91-100	Excellent	
9	81-90	Exceptionally good	
8	71-80	Very good	
7	61-70	Good	
6	51-60	Passing	
5	<51	Failing	