

CODE BIOAGRI0 6		COURSE TITLE: BIOPHYSICS		ECTS: 4	
COORDINATOR: KRZYSZTOF POLEWSKI			DEPARTMENT: PHYSICS		
Course Category BIOTECHNOLOGY					
VOLUME (H) 90			PERSONAL WORK (H)		
LECTURE: (H) 45	PRACTICALS / LAB (H) 45	PLACEMENT: (H)	PROJECT (H)	OTHER MODALITIES: (H)	
EVALUATION:		OTHER MODALITIES:	LECTURER(S)		
EVALUATION MODALITIES					
ORAL INDIVIDUAL REPORT					
WRITTEN INDIVIDUAL REPORT					
FINAL ORAL EXAM	X				
FINAL WRITTEN EXAM					
COMMENTS OF EVALUATION:		TEACHING METHODS:			
SEMESTER: WINTER		LANGUAGE: ENGLISH			
PERIOD: 15 WEEKS		YEAR OF STUDY: FIRST			
OBJECTIVES					
<ul style="list-style-type: none"> ▪ Fundamental forces and interactions in nature. ▪ Electromagnetic interactions in biological structures ▪ Physical methods in biology. Water properties 					
CONTENTS					
<ul style="list-style-type: none"> ▪ Fundamental forces and interactions in nature ▪ Electromagnetic interactions, Thermodynamics in closed and open systems ▪ Molecular basics of biological phenomena ▪ Spectroscopic methods. ▪ Biophysics of membranes ▪ Biophysics of biological structures. ▪ Electrical properties of biomolecules ▪ Water ▪ Nuclear physics and radioactivity 					
GROUP SIZE: 20		PRE-REQUIRES:			