

CODE : BIOHUM11		COURSE TITLE: MOLECULAR BIOLOGY WITH ESSENTIAL GENETICS		ECTS: 7	
COORDINATOR: MARCIN SCHMIDT			DEPARTMENT: BIOTECHNOLOGY AND FOOD MICROBIOLOGY		
COURSE CATEGORY					
VOLUME(H) 60				PERSONAL WORK (H)	
LECTURE: (H) 30	PRACTICALS / LAB (H) 30		PLACEMENT: (H)	PROJECT: (H)	OTHER MODALITIES: (H)
EVALUATION:		OTHER MODALITIES:		LECTURER(S)	
EVALUATION MODALITIES				MARCIN SCHMIDT AGNIESZKA OLEJNIK-SCHMIDT WOJCIECH JUZWA	
ORAL INDIVIDUAL REPORT					
WRITTEN INDIVIDUAL REPORT					
FINAL ORAL EXAM					
FINAL WRITTEN EXAM		X			
COMMENTS OF EVALUATION:			TEACHING METHODS: LECTURES & LABS		
SEMESTER: SUMMER			LANGUAGE: ENGLISH		
PERIOD: 15 WEEKS			YEAR OF STUDY: THIRD		
OBJECTIVES					
TO FAMILIRIZE STUDENTS WITH MOLECULAR BIOLOGY OF THE CELL AND BASIC GENETIC PROCESSES					
CONTENTS					
<ul style="list-style-type: none"> ▪ GENOME STRUCTURE AND ORGANISATION (PRO- AND EUCARYOTIC), ▪ REPLICATION, ▪ TRANSCRIPTION, ▪ TRANSLATION, ▪ GENETIC CODE, ▪ TRANSCRIPTION REGULATION IN PRO- AND EUCARIOTIC CELL, ▪ CELL MEMBRANES, ▪ COMPARTMENTS, ▪ INTRA- AND EXTRACELLULAR TRANSPORT, ▪ PROTEIN MODIFICATION, ▪ SORTING, ▪ SECRETION AND DEGRADATION, ▪ CELL CYCLE AND DIFFERENTIATION 					
GROUP SIZE: 15			PRE-REQUISITES: BIOCHEMISTRY		