

CODE : BIOHUM 08		COURSE TITLE: GENETIC ENGINEERING		ECTS: 6	
COORDINATOR: MARCIN SCHMIDT			DEPARTMENT: BIOTECHNOLOGY AND FOOD MICROBIOLOGY		
COURSE CATEGORY					
VOLUME(H) 75				PERSONAL WORK (H)	
LECTURE: (H) 45	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: WINTER			LANGUAGE: ENGLISH		
PERIOD: 15 WEEKS			YEAR OF STUDY: FOURTH		
OBJECTIVES					
TO FAMILIRIZE STUDENTS WITH BASIC AND ADVANCED TECHNIQUES USED IN GENETIC ENGEENERING USED FOR BASIC RESEARCH, BIOTECHNOLOGY AND MOLECULAR MEDICINE					
CONTENTS					
<ul style="list-style-type: none"> ▪ PROPERTIES OF NUCLEIC ACIDS, ▪ ISOLATION AND PURIFICATION OF NUCLEIC ACIDS, ▪ RESTRICTION AND NUCLEIC ACIDS MODIFYING ENZYMES, ▪ PCR TECHNIQUES, ▪ PRO- AND EUCARYOTIC VECTORS, ▪ ARTIFICIAL CHROMOSOMES, ▪ MOLECULAR PROBES AND HYBRIDIZATION, ▪ GENOMIC AND DNA LIBRARIES, ▪ DIRECTED MUTAGENESIS, ▪ GENE EXPRESSION ANALYSIS AND QUANTIFICATION TECHNIQUES, ▪ DNA SEQUENCING, ▪ PROTEIN-PROTEIN INTERACTION DETECTION, ▪ BioINFORMATICS 					
GROUP SIZE: 15			PRE-REQUIRES: BIOCHEMISTRY AND MOLECULAR BIOLOGY		