

CODE : ANIMBIO 6	COURSE TITLE: ANIMAL MOLECULAR GENETICS		ECTS: 5	
COORDINATOR: M. ŚWITOŃSKI		DEPARTMENT GENETICS AND ANIMAL BREEDING		
COURSE CATEGORY				
VOLUME: (H) 45			PERSONAL WORK (H)	
LECTURE: (H) 15	PRACTICALS / LAB (H) 30	PLACEMENT: (H)	PROJECT: (H)	OTHER MODALITIES: (H)
EVALUATION:		OTHER MODALITIES:		LECTURER(S)
EVALUATION MODALITIES				
ORAL INDIVIDUAL REPORT				
WRITTEN INDIVIDUAL REPORT				
FINAL ORAL EXAM				
FINAL WRITTEN EXAM	X			
COMMENTS OF EVALUATION:		TEACHING METHODS: LECTURES AND PRACTICALS		
SEMESTER: SUMMER		LANGUAGE: ENGLISH		
PERIOD: 15		YEAR OF STUDY: THIRD		
OBJECTIVES				
<ul style="list-style-type: none"> ▪ TECHNIQUES USED IN MOLECULAR GENETICS ▪ GENE STRUCTURE AND EXPRESSION ▪ DNA POLYMORPHISM ▪ LINKAGE GENOME MAPPING 				
CONTENTS				
<ul style="list-style-type: none"> ▪ GENOME ORGANISATION ▪ MECHANISMS OF GENE EXPRESSION (TRANSCRIPTION FACTORS, ALTERNATIVE SPLICING, RNA EDITING, POST TRANSLATION MODIFICATIONS ETC) ▪ TECHNIQUES USED IN MOLECULAR GENETICS: PCR, CLONING, RFLP, SSCP, STR, SEQUENCING, RT-PCR, MICROARRAYS, RNAi ETC. ▪ GENETIC MARKERS AND GENETIC ANALYSIS (PATERNITY, IDENTIFICATION OF CAUSATIVE MUTATIONS ETC) ▪ MUTATIONS AND GENETIC DISEASES ▪ MUTATIONS AND QUANTITATIVE TRAITS VARIABILITY 				
GROUP SIZE: 10 -15		PRE-REQUIRES: PRINCIPLES OF ANIMAL GENETICS		