

CODE BIOAGRI 09		COURSE TITLE: POLYMORPHISM OF THE PROTEINS		ECTS: 4	
COORDINATOR: DANUTA MACKIEWICZ			DEPARTMENT: GENETICS AND PLANT BREEDING		
Course Category BIOTECHNOLOGY					
VOLUME (H) 15			PERSONAL WORK (H)		
LECTURE: (H) 15	PRACTICALS /LAB (H)	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:		
SEMESTER: SUMMER			LANGUAGE: ENGLISH		
PERIOD: 15 WEEKS			YEAR OF STUDY: FOURTH		
OBJECTIVES					
<ul style="list-style-type: none"> ▪ Principles of protein electrophoresis and genetic interpretation of gels ▪ Isozyme application in genetics 					
CONTENTS					
<ul style="list-style-type: none"> ▪ Principles of protein electrophoresis, the isozyme definition ▪ Factors affecting the electrophoresis mobility of proteins: ▪ Enzymatic detection of proteins ▪ Techniques of storage and preparation of protein extracts ▪ Techniques of gel preparation electrophoresis and enzymatic staining ▪ Genetic interpretation of gels ▪ Application of isozyme markers in genetic, genetic of population and plant breeding ▪ Estimation of allelic frequencies of autosomal and heterosomal genes 					
GROUP SIZE: 10			PRE-REQUIRES:		