MODUL	FOOD 3S.2	COURSE TITLE	Fermentation	Technologies	ECTS 6
FACULTY COORDINATOR prof.dr		prof.dr hab Z.Krejpcio	DEPARTMENT	Food Science and Nutrition	
TEACHER			prof.dr hab. J.Nowak, prof. dr hab.Z.Czarnecki, dr m.Lasik, Dr m.Kuligowski, dr K.Goderska		
VOLUME (H)		4	45	PERSONAL WORK (H)	100
LECTURE (H)		LAB (H)	PLACEMENT (H)	PROJECT (H)	OTHER MODALITIES (H)
15		30			
EVALUATION			TEACHING METHODS		
EVALUATION MODALITES			Multimedial lectures adressed to all participants,		
ORAL INDIVIDUAL REPORT			Participation in demonstrations and labs		
WRITEN INDYVIDUAL REPORT 30%			Participation in trips to food technology plants		
FINAL ORAL EXAM			Reports form industry trips		
FINAL WRITTEN EXAM 70%					
COMMENTS OF EVALUATION			Power point presentaion on fermentation technology of the chosen product - preferably from		
SEMESTER (WINTER/SUMMER)			LANGUAGE		
ws			ENGLISH		
OBJECTIVES			ı		

OBJECTIVES

The aim of the course is to get information on fermentation (natural) methods of food fermentation

Acquire knowledge about major food contaminants and poisons and poisoning, toxicants formed during food processing and storage

Learn about functional and nutritional properties get by fermentation

Students have possibilities to visit breweries, distillery plants and malt production plants to evaluate the theory versus pratic technologies

CONTENTS

Basic on microorganisms in food fermentation and biomass production

Technology of fermented ethanol products, LAB in souring od vegetables and fungi in fermented foods

Yeast production for biomass - bakery yeast and yaest preparates

Probiotics and prebiotics - microorganisms mechanism of action and technology

Less known indigenous fermented foods

Future perspectives of fermented foods

PRE-REQUISES	basis of biochemistry and microbiology
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