



Course ID: HODTH24	Course name: SELECTED TOPICS IN BIOTECHNOLOGY		
Cycle: THIRD	Year: FIRST	Semester: II	ECTS credits: 10
Course status: ELECTIVE	Total course hours: 60 Lectures: 30 Laboratory: 30		
Teaching participants:	Teachers and associates with expertise in the field to which the subject belongs		
Prerequisite for enrollment:	Biotechnology		
Course aims:	The aim of this course is to acquaint students with the latest advances in engineering, biological, medical and agricultural aspects of biotechnology.		
Thematic course units:	Application of biotechnology in various industries: food, agriculture, pharmacy, chemical industry, environment, bioproducts, textiles, medicine Renewable energy sources Biofuels Agrobiotechnology Environmental biotechnology Bioremediation Food technology Biotechnology in medicine and pharmacy Bioethics and biosecurity		
Learning outcomes:	<p>Knowledge: After the course the student will be able to: explain the scope, concepts and terminology of biotechnology ; research and explain current events and advances in biotechnology; acquire knowledge related to selected trends in biotechnology; understands the development, advantages and disadvantages of using new technologies in selected areas of biotechnology; apply knowledge from selected areas of industrial biotechnology as one of the most promising new approaches to pollution prevention, resource conservation and cost reduction; understands the concept of biotechnology that includes working with nature to increase and optimize existing biochemical pathways that can be used in production.</p> <p>Skills: Students will gain an understanding of gene technology, microbial biotechnology, plant biotechnology, using biotechnology in environment, food and agriculture biotechnology. Also, student will be able practically apply acquired knowledge from the selected topics of biotechnology.</p> <p>Competences: This course is designed to provide students fundamental theoretical and practical concepts that are core to all aspects of biotechnology within a framework of real-world applications. Students</p>		

