Subject name	**Agricultural Engineering**	
Subject code	**E.1.AI.SC.ECTIE.A**	
Department	**Institute of Machinery Management, Ergonomics and Production Processes**	
Faculty	**Production and Power Engineering**	
Subject supervisor/Lecturer	**Professor Tadeusz Juliszewski, Dr Tomasz Głąb**	
General information	**semester**	**autumn**
	ECTS credits	**5**
	Lectures total	**20**
	Field classes	**10**
Objective and general description	Machinery and its management used in technologies of agricultural production. Fundamentals of the construction and utilization of various agricultural tools and machines will be presented. 1. Tractors – construction and utilization. 2. Tillage machinery (tillage systems) 3. Seeders and planters 4. Fertilizer distributors 5. Pest control equipment 6. Harvesters (combine harvesters, straw harvesters) 7. Forage crops (machines and equipment) 8. Root crops (mechanical harvesting) 9. Mechanical harvest of fruits and vegetables 30 hours are divided into 20 hours of lectures and 10 hours practical class (on the farm). Subject statistic 1. Number of hours and ECTS credits - compulsory subject Hours: 125; ECTS: 5 2. Number of hours and ECTS credits - facultative subject Hours: - ; ECTS: - 3. Total number of hours and ECTS credits, a student must earn by direct contact with academics (lectures, classes, seminars....) Hours: 30; ECTS: 1,2 4. Total number of hours and ECTS credits, a student earns in the course of a practical nature, such as laboratory, field trips and design classes Hours: 10; ECTS: 0,4 5. Expected personal workload (without or with academics participation during consultations) necessary for realization of subject objectives. Hours: 95; ECTS: 3,8	
Assessment method	Examination	
References	CIGR Handbook of agricultural engineering. Vol. III. Plant production engineering.	