Course name:

TECHNICAL INFRASTRUCTURE OF AGRICULTURE

ECTS	4
Course status	obligatory
Course final assessement/evaluation of outcomes	Credit
Prerequisites	

Main field of study:

AGRICULTURE

Profile of study	General-academic
The code of studies (education level)	SI (bachelor)
Semester of studies	winter / summer
Language of instruction	English

Course offered by:

course	Faculty of Production and Power Engineering	
Name of department offering the course	Department of Production Engineering, Logistics and Applied Computer Science	
Course coordinator	dr hab. inż. Zbigniew Kowalczyk	

Learning outcomes of the course:

Symbol of outcome		Reference to				
	Description of learning outcome	main field of study outcomes	discipline#			
	KNOWLEDGE – student knows and/or understands:					
TEG.SI_W01	has basic knowledge of the life cycle of the equipment, production facilities and technical systems used in agriculture	R01_W13	RR			
TEG.SI_W02	construction and operation of agricultural tractor systems and assemblies	R01_W16	TZ			
SKILLS – student is able to:						
TEG.SI_U01	read and create simple technical construction drawings	R01_U21 R01_U24	TZ			
TEG.SI_U02	draw diagrams of building sets of agricultural machines	R01_U21 R01_U24	TZ			
TEG.SI_U03	select technical means of production to the operating conditions of the farm in terms of the nature of the production	R01_U21 R01_U24 R01_U25	RR			
SOCIAL COMPETENCE- student is ready to:						
TEG.SI_K01	understand the need for lifelong learning	R01_K01	RR			

TEO SI KAS	be aware of the im	nportance of technical progress in the development	D04 K02			
TEG.SI_K02	of agriculture		R01_K03	TZ		
Teaching cont	ents:			-		
Lectures			20	hours		
Topics of the lectures	5-7. Life cycle and 8-10. Basics of ted 11-16. Fundamen	I-4. Technical means of production in agriculture - types, characteristics 5-7. Life cycle and consumption of technical means of production used in agriculture 8-10. Basics of technical drawing I1-16. Fundamentals of agricultural machinery I7-20. Working conditions of the tractor, tools and agricultural machines				
Accomplished l	earning outcomes	TEG.SI_W01, TEG.SI_U01, TEG.SI_U02, TEG.SI_K01, TEG.SI_K02				
Verification methods, rules and criteria of outcome assessment		Credit for the lecture in writing: open questions asset the final evaluation of the module 50%. The percental learning outcomes was adopted, defined as follows: 1. Unsatisfactory grade (2.0): it is issued if, in the scomponents (K, S or SC) of the subject learning out than 50% of the effective outcomes for a given compact. 2. Sufficient grade (3.0): it is issued if for each of the of learning outcomes, the student obtains at least 50 for a given component. 3. Assessment more than satisfactory (3.5): it is given arithmetic with three components (K, S or SC) of learning average). 4. A similar method of calculating the grades as presented grades good (4.0 • average 71-80%), above good very good (5.0- average> 90%). NOTE: The person conducting the classes, on the bothe applicable curriculum content of a given subject, experience, formulates an assessment using the above.	age scale of asope of at least comes, the students on the appliance of the appliance of the students of the st	ssessment of tone of the three udent obtains less ments (K, S or SC) ticable outcomes to of an average tes (61-70% on to 3 was adopted for tige 81-90%) and tident's mastery of own didactic tid formal criteria.		
Classes	1 4 Conoral atmos	ture and principles of the apprehien of an apprint well the	10	hours		
Topics of the classes	5-7. Principles of t	ture and principles of the operation of an agricultural he operation of the agricultural machinery and equipm	nent			
	8-10. Assessment	of the consumption of selected technical means of p	roduction used	I in agriculture		

TEG.SI_W02, TEG.SI_U01, TEG.SI_U02, TEG.SI_U03, TEG.SI_K01, TEG.SI_K02

Accomplished learning outcomes

	nethods, rules ar tcome assessme		Credit for the workshops on the basis of: - individual project (obligatory), assessed on a scale of 2.0-5.0. Participation in the final evaluation of the module 50%. NOTE: The person conducting the classes, based on the student's mastery of the applicable curriculum content of a given subject, based on his own didactic experience, formulates an assessment using the above-mentioned formal criteria.				
Seminars							hours
Topics of the seminars							
Accomplished learning outcomes symbol of learning outc			symbol of learning outco	omesof the sen	ninars		
Verification methods, rules and criteria of outcome assessment		together with participation	on in the final a	sessement (in	%)		
References:							
Basic	Skrobacki A., Ekielski A. Pojazd Białczyk W., Cudzik A., Czarnec Wrocławskie Towarzystwo Oświ			ki JCiągniki i po		•	
Supplementar	Dobrzański T. Rysunek techniczn			ny maszynowy. V	Wydawnictwo Wi	NT. 2015	
Structure of	learning outcor	mes:					
Discipline: R	R					2	ECTS**
Discipline: Ta	Z					2	ECTS**
Structure of	student activiti	es:					
Contact hour	'S			39	hours	1,6	ECTS**
including:	lectures			20	hours		
	classes and	classes and seminars		10	hours		
	consultations	consultations		5	hours		
	participation in research			hours			
	mandatory tr	mandatory trainerships			hours		
	participation in examinations		4	hours			
e-learning				hours		ECTS**	
student own work		60	hours	2,4	ECTS**		

^{*} where 10 hours of classes = 1 ECTC (in case of 15 h \to 2 ECTS) ** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes

[#] academic discipline code: RZ - animal science and fishery, PB - biological sciences, etc.