

## Subject card

Subject name and code	ADVANCED CAD SYSTEMS, PG_00041295							
Field of study	Civil Engineering							
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026		
Education level	second-cycle studies		Subject group			Optional subject group		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Metal Structures -> Faculty of Civil and Environmental Engineering							
Name and surname	Subject supervisor		mgr inż. Pawe	eł Pieczka				
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30
	E-learning hours incl							i
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0		40.0		75
	Student learns how t			s of the selecte	ed softwa	are ded	icated to 3D	-modelling,
	Student learns how t detailling and dimens Student learns the p	sioning of the st	eel structures.					Ç.
Learning outcomes	detailling and dimens	sioning of the st	eel structures.			rkshop (		on.
Learning outcomes	detailling and dimens	rinciples of the particome nced skills in hin offered	preparation of to Subjusted Student is abludedicated to 3	the steel structory ject outcome le to use softwards 3D-modelling, dimensioning	ures wor	rkshop (	documentati Method of v	on. erification
Learning outcomes	Student learns the p  Course ou  [K7_U15] has advar civil engineering wit	rinciples of the particome inced skills in hin offered elimination of the particologies of dimensioning	Subject Student is abidedicated to detailling and steel structure.	ject outcome le to use softwa 3D-modelling, dimensioning es. vs the principles e software ded ng, detailling a	are of the	[SU1] /	Method of v Assessment int	on. erification of task
Learning outcomes	Course ou  [K7_U15] has advar civil engineering wit specialization/profile  [K7_W02] knows pri analysis, design and of complex construct	rinciples of the particome nced skills in hin offered elinciples of dimensioning citions and its  n and steel, concrete d), wood and	Subject Student is about the use of the to 3D-modelli dimensioning structures.	ject outcome le to use softwa ject modelling, dimensioning es. //s the principles e software ded ng, detailling a of the steel le to design an lected connect	are of the s of icated and	[SU1] A fulfilme	Method of v Assessment int  Assessment dge	on. erification of task of factual
Learning outcomes  Subject contents	Course ou  [K7_U15] has advar civil engineering wit specialization/profile  [K7_W02] knows pri analysis, design and of complex construct elements  [K7_U02] can design dimension complex (including reinforced masonry construction	rinciples of the particome need skills in the particome inciples of dimensioning citions and its  n and steel, concrete the particons and its  e selected softwom and plate elemections: bolts and steel inciples of the particons and its	Student is abidedicated to 3D-modelli dimension is abidimension set the steel structures.  Student know the use of the to 3D-modelli dimensioning structures.  Student is abidimension set the steel structures.	ject outcome le to use softwa 3D-modelling, dimensioning es. s the principles e software ded ng, detailling a of the steel le to design an lected connect ctures.  to 3D-modelling ng of the 2D an	are of the s of icated nd d ions of	[SU1] A fulfilme	Method of v Assessment Assessment dge Assessment	on. erification of task of factual of task
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Subject contents  Prerequisites and co-requisites Assessment methods	Student learns the p  Course ou [K7_U15] has advar civil engineering wit specialization/profile [K7_W02] knows pri analysis, design and of complex construct elements  [K7_U02] can desig dimension complex (including reinforced masonry constrution details  Demonstration of the structures. Modelling of the bea Modelling of the con	rinciples of the particome need skills in the particome need skills in the particolor of dimensioning stions and its  n and steel, concrete the particolor of the particolor o	Student is abidedicated to 3D-modelli dimension is abidimension set the steel structures.  Student know the use of the to 3D-modelli dimensioning structures.  Student is abidimension set the steel structures.  Are dedicated the ments. Modelli and welds. Coll deliverables.	ject outcome le to use softwa 3D-modelling, dimensioning es. s the principles e software ded ng, detailling a of the steel le to design an lected connect ctures.  to 3D-modelling ng of the 2D an	are of the s of icated nd d ions of	[SU1] A fulfilmed [SW1] A fulfilmed [SU1] A fulf	Method of v Assessment Int Assessment Assessment Idge Assessment I dimensioni	on. erification of task of factual of task
Subject contents  Prerequisites and co-requisites	Student learns the p  Course ou [K7_U15] has advar civil engineering wit specialization/profile [K7_W02] knows pri analysis, design and of complex construct elements  [K7_U02] can desig dimension complex (including reinforced masonry constrution details  Demonstration of the structures. Modelling of the bea Modelling of the con Generating worksho	rinciples of the particome need skills in the particome need skills in the particolor of dimensioning stions and its  n and steel, concrete the particolor of the particolor o	Student is abidedicated to 3D-modelli dimension is abidimension set the steel structures.  Student know the use of the to 3D-modelli dimensioning structures.  Student is abidimension set the steel structures.  Are dedicated the ments. Modelli and welds. Coll deliverables.	ithe steel structive place to utcome le to use softward additional ses. It is stated as the principles of the steel le to design an elected connect ctures. It is a D-modelling and of the 2D are lision checks.	are of the s of icated nd d ions of	[SU1] A fulfilmed [SW1] A fulfilmed [SU1] A fulf	Method of v Assessment Int Assessment Assessment Idge Assessment I dimensioni	on. erification of task of factual of task
Subject contents  Prerequisites and co-requisites Assessment methods	Student learns the procession of complex construction details  Demonstration of the structures. Modelling of the congenerating worksho	rinciples of the particome need skills in the particome need skills in the particolor of dimensioning stions and its  n and steel, concrete the particolor of the particolor o	Subject of the structures.  Subject of the structure of t	ithe steel structive place to utcome le to use softward additional ses. It is stated as the principles of the steel le to design an elected connect ctures. It is a D-modelling and of the 2D are lision checks.	are of the s of icated nd d ions of	[SU1] A fulfilmed ling and ructures	Method of v Assessment Int Assessment Assessment Idge Assessment I dimensioni	on. erification of task of factual of task

	Supplementary literature	-			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Creating 3-D model of the steel structures. Generating workshop drawings and deliverables.				
Work placement	Not applicable				

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