STUDY MODULE DESCRIPTION FORM								
Name of the module/subject General knowledge of the aircraft 2					Code 1010601151010637634			
Field of study Aerospace Engineering				Profile of study (general academic, practical) (brak)		Year /Semester 3 / 5		
Elective path/specialty				Subject offered in:		Course (compulsory, elective)		
Aircraft Piloting				Polish		obligatory		
Cycle of study: Form of study (full-time,part-time)								
First-cycle studies				full-time				
No. of h	ours					No. of credits		
Lectur	e: 1 Classes	s: <b>1</b> Laboratory: -	F	Project/seminars:	-	1		
Status o	Status of the course in the study program (Basic, major, other) (university-wide, from another field)							
		(brak)			(br	ak)		
Education	on areas and fields of sci	ence and art				ECTS distribution (number and %)		
technical sciences						1 100%		
Technical sciences						1 100%		
Resp	onsible for subje	ect / lecturer:	Res	sponsible for subje	ct /	lecturer:		
mar	inż. Kaietan Szymańo	zvk	d	r hab. inż. Agnieszka Wr	óblev	wska		
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Fac	ulty of Transport Engir	neering	F	aculty of Transport Engin	neeri	ng		
	10110W0 3 00-903 P02			I. FIUIIUWU 3 00-903 FUZ	IIaII			
Prere	equisites in term	s of knowledge, skills an	id so	cial competencies				
1	Knowledge	In the field of airframe assemblie and emergency systems. [PRK4	es, control systems, hydraulic, pneumatic, fuel, air-conditioning 4]					
2	Skills	able to apply the scientific method	od in	solving problems [PRK4]				
3	Social	knows the limits of his knowledg	e limits of his knowledge and skills; can work in a group [PRK4]					
3	competencies							
Assumptions and objectives of the course:								
familia	rize the student with th	ne construction of the aircraft and	its ex	ecutive teams				
	Study outco	mes and reference to the	e edu	cational results for	r a f	field of study		
Know	vledge:							
1. has includii	detailed knowledge re	lated to selected issues in the fiel and their main components - [K	ld of c (1A_W	onstruction of manned ar /13]	nd ur	nmanned aerial vehicles,		
2. has broadened knowledge necessary for understanding of profile subjects and specialist knowledge about construction, methods of construction, manufacturing, operation, air traffic management, security systems, impact on the economy, society and the aviation and aerospace environment - [K14, W23]								
3. has a basic knowledge of the life cycle of devices, objects and technical systems, as well as the methods of their technical description - IK1A W221								
Skills	); ;							
1. is able to analyze objects and technical solutions, is able to search in catalogs and on manufacturers' websites ready components of machines and devices, including means and transport and storage devices, assess their suitability for use in their own technical and organizational projects - [K1A_1]09]								
2. can draw a schematic and a simple machine element in accordance with the principles of technical drawing - [K1A U16]								
3. is at covere	3. is able to develop a manual for servicing and repairing a simple machine or its subassemblies from the machine group covered by the selected specialty - [K1A_U18]							
Socia	al competencies:							

understands the need to learn throughout life; can inspire and organize the learning process of other people - [K1A\_K01]
 is aware of the social role of a technical university graduate, and especially understands the need to formulate and communicate to the public, in particular through mass media, information and opinions on the achievements of technology and other aspects of engineering activities; makes efforts to provide such information and opinions in a generally understandable way - [K1A\_K07]

# Assessment methods of study outcomes

computer exam using Aviationexam software

## Course description

The ability to classify the construction systems of airframe planes and helicopters, characterize the applied structural solutions of the main airframe assemblies. Ability to characterize control systems, hydraulic, pneumatic, fuel, air-conditioning and emergency systems. The ability to interpret the indications of on-board instruments to assess the technical condition of an aircraft and its systems

### Basic bibliography:

- 1. Cichosz E., Konstrukcja i praca płatowca, WAT, Warszawa 1986 r.
- 2. Olejnik A., Budowa statków powietrznych, WAT 1984 r
- 3. Błaszczyk J., Konstrukcja samolotów, cz.I., Obciążenia zewnętrzne, WAT, Warszawa 1984 r.
- 4. Danilecki S., Projektowanie samolotów, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2000 r.
- 5. Polak Z., Rypulak A., Bilski J., Awionika, przyrządy i systemy pokładowe, WSOSP, Dęblin 1999 r.
- 6. Spitzer Cary R., The Avionics Handbook, AvioniCon Inc, Williamsburg 2001 r.

7. Kazana J., Lipski J., Budowa i eksploatacja pokładowych przyrządów lotniczych, WKiŁ, Warszawa 1983 r.

# Additional bibliography:

# Result of average student's workload

Activity	Time (working hours)						
1. Participation in classes (according to plan)	30						
2. Participation in the exam / pass	1						
Student's workload							
Source of workload	hours	ECTS					
Total workload	30	1					
Contact hours	31	1					
Practical activities	0	0					