

Card of Course

Description of Course:	
Code of course	-----
Name of course	Infrastructure and Operations of the Airports
Version of course	2013/2014
A. Place of the course in system of study	
Level of education	Intermediate
Degree of education	engineering
Kind of education	Full-time studies
Field of study	Transport
Profile of study	General academic profile
Specialisation	Main field
Place of teaching of course	Faculty of Transport
Place of realization of course	Department of Air Transport Engineering
Coordinator of course	Michał Kozłowski, Ph.D., Eng.
B. General characteristic of the course	
Block of courses	main field
Group of courses	specialization
Level of course	intermediate
Status of course	faculty with choice limited
Language of course	english
Nominal semester	-
Academic year	2013/2014
Preliminary requirements	international air law; transport infrastructure
Limit of number of students	-

C. Effects of education and manner of teaching	
Purpose of course	To give the knowledge and basic skills in using standard methods of planning and design of airport elements and operational processes, associated with the specifications contained in Annex 14 to the Convention on International Civil Aviation.
Methods of evaluation	Perform exercises and design classes (with calculations)
Effects of education	Look – table 1
Form of didactic studies and number of hours per week	Lecture and exercises – 2 hours
Contents of education	<ol style="list-style-type: none"> 1. Definitions, standards and recommended practices for aerodromes (SARPs Annex 14 ICAO); movement area infrastructure. 2. Visual aids for navigation. 3. Radio navigation aids; aerodrome traffic; obstacles and obstacle limitation surfaces; airport operational services. 4. Rescue and fire fighting; safety management system. 5. Ground handling; airport capacity; slots allocation.
Methods of verification of effects of education	Look – table 1
Examination	-
Literature	<ol style="list-style-type: none"> 1. Convention on International Civil Aviation, signed at Chicago on 7 December 1944 (ICAO Doc 7300). 2. Annex 14 to the Convention on International Civil Aviation – Aerodromes. 3. Airport Planning Manual (ICAO Doc 9184). 4. Aerodrome Design Manual (ICAO Doc 9157). 5. Airport Services Manual (ICAO Doc 9137). 6. Manual on Certification of Aerodromes (ICAO Doc 9774). 7. Safety Management Manual (ICAO Doc 9859). 8. Council Regulation (EEC) No 95/93 of 18 January 1993 on common rules for the allocation of slots at Community airports. 9. Edited by Czernicki F., Skoczny T. „Polish Airports – Competitive Challenges, Regulatory Requirements and Development Perspectives”. University of Warsaw / Faculty of Management Press & Polish Airports State Enterprise; Warsaw 2013.
www of course	Does not have
D. Student's job	

Number of credits ECTS	3
Number of hours of student's job for achievement of education's effect (description):	75h (lecture – 10h; study of the literature – 25h; perform exercises and design classes with calculations – 25h; consultation and assessment exercises and design classes – 15h)
Number of credits ECTS on the course with direct participation of academic teacher	1
Number of credits ECTS on practical activities on the course	2
E. Additional informations	
Notes	
Date of last modernization	31.10.2013

Table 1

General academic profile			
Course's effects		Field effects	Area effect
Knowledge			
Effect:	Theoretical knowledge on airports infrastructure and operational processes	Tr1A_W08	T1A_W03
Code of effect:	W_01		
Verification:	perform exercises		
Effect:	Knowledge on ICAO standards of the technical parameters of the airport infrastructure	Tr1A_W09 Tr1A_W12	T1A_W07 T1A_W04
Code of effect:	W_02		
Verification:	perform exercises		
Effect:	Knowledge on the requirements for the airport operational processes	Tr1A_W09 Tr1A_W12	T1A_W07 T1A_W04

Code of effect:	W_03		
Verification:	perform exercises		
Skills			
Effect:	It has an evidence base for design of the runway	Tr1A_U03 Tr1A_U20 Tr1A_U23 Tr1A_U24	T1A_U02 T1A_U14 T1A_U16
Code of effect:	U_01		
Verification:	Performance design classes (with calculations)		
Effect:	It has an evidence base for analyze and evaluate the possibility of aircraft operations on the given runway category in specified meteological conditions	Tr1A_U03 Tr1A_U20 Tr1A_U23 Tr1A_U24	T1A_U02 T1A_U14 T1A_U16
Code of effect:	U_01		
Verification:	Performance design classes		
Effect:	Know how to perform a risk analysis	Tr1A_U03 Tr1A_U20 Tr1A_U23 Tr1A_U24	T1A_U02 T1A_U14 T1A_U16
Code of effect:	U_01		
Verification:	Performance design classes		
Social competences			
Effect:	Is able to participate in the project team		
Code of effect:	K01	Tr1A_K03	T1A_K03
Verification:	Implementation of the project, individual and group consultation of the project, oral defense of the concepts used in the project		