

Faculty of Transportation Engineering and Vehicle Enginee

Subject name Air Traffic Management (ATM)

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2. Subject name in Hungarian	Air Traffic Management (ATM)					
3. Code	BMEKOVRM224	4. Evaluation type	mid-term grade	5. Credits	3	
6. Weekly contact hours	1 (3) Lecture	0 (0) Practice	1 (4) Lab			
7. Curriculum	Transportation Engineering MSc (K)	8. Role	Specialization (sp) at Transportation Engineering MSc (K)			
9. Working hours	for fulfilling the req	uirements of the su	ubject 90			
Contact hours	28	Preparation for seminars	9	Homework	0	
Reading written materials	47	Midterm preparation	6	Exam preparation	0	
10. Department	Department of Aeronautics and Naval Architectures					
11. Responsible lecturer	Dr. Rohács Dániel					
12. Lecturers	Dr. Rohács Dániel, Gál István					
13. Prerequisites						
14. Description of	lectures					
complete Air Traffic BASIC ELEMENTS Control. Air Space M THE LIMITATIONS traffic hubs and rout FUTURE OBJECTI Clean Sky projects. ADVANCED AND F	System. - The structure of air Aanagement OF CURRENT SYS es. Structure and evon VES AND DOCUME FligthPath 2050. UTURE SYSTEMS -	traffic. International n TEM - The history of plution of air traffic. NTS - Traffic analysis Separating and colli	rules and laws. Air T air traffic growing. In s and forecasting. Si sion avoidance syste	d for Air Traffic Manage Traffic Flow Manageme Industry crises and thei Ingle European Sky. S ems. Augmented Real	ent. Air Traffic ir effects. Important ESAR projects. ity systems.	
15. Description of	practices					

16. Description of labortory practices

During labor courses students become familiar with the basic processes and future developments, especially with rTower and stress monitoring methods.

17. Learning outcomes

A. Knowledge

- Knows and understands the basic methods and necessities of Air Traffic Management.
- Knows the system of ATM and its subprocesses, related methods and technologies, and their capabilities.
- Get familiar with the current important research areas and objectives, and with actual projects.

B. Skills

 Based on the knowledge above the student can master the deeper, more specific knowledge of ATM activities and subprocesses guickly and easily.

C. Attitudes

• Interested, responsive.

D. Autonomy and Responsibility

18. Requirements, way to determine a grade (obtain a signature)

Performing laboratory practice and 1 mid-term exam (measuring the theoretical knowledge). The final grade is the result of the mid-term exam.

19. Opportunity for repeat/retake and delayed completion

Retake possibility of a laboratory excercise or the mid-term exam						
20. Learning materials						
The presentation about the lectures Literature						
Effective date	10 October 2019	This Subject Datasheet is valid for	Inactive courses			