

Budapest University of Technology and Economics

Faculty of Transportation Engineering and Vehicle Enginee

Meteorology				
Meteorology				
BMEKOVRM231	4. Evaluation type	exam grade	5. Credits	3
2 (7) Lecture	0 (0) Practice	0 (0) Lab		
Transportation Engineering MSc (K)	8. Role	Specialization (sp) at Transportation Engineering MSc (K)		
or fulfilling the req	uirements of the s	ubject		90
28	Preparation for seminars	4	Homework	0
36	Midterm preparation	12	Exam preparation	10
Department of Aeronautics and Naval Architectures				
Dr. Rohács Dániel				
Dr. Rohács Dániel, Jankovics István				
	Meteorology BMEKOVRM231 2 (7) Lecture Transportation Engineering MSc (K) or fulfilling the req 28 36 Department of Aer Dr. Rohács Dániel	Meteorology BMEKOVRM231 4. Evaluation type 2 (7) Lecture 0 (0) Practice Transportation Engineering MSc (K) or fulfilling the requirements of the su 28 Preparation for seminars 36 Midterm preparation Department of Aeronautics and Nava	Meteorology BMEKOVRM231 4. Evaluation type exam grade 2 (7) Lecture 0 (0) Practice 0 (0) Lab	BMEKOVRM231 4. Evaluation type exam grade 5. Credits 2 (7) Lecture 0 (0) Practice 0 (0) Lab Transportation Engineering MSc (K) or fulfilling the requirements of the subject 28 Preparation for seminars 36 Midterm preparation Department of Aeronautics and Naval Architectures Dr. Rohács Dániel 5. Credits 5. Credits 5. Credits 5. Credits 6. Which is a preparation (Sp) at Transportation (K) Exam preparation 12 Exam preparation

14. Description of lectures

ATMOSPHERE - Structure of the atmosphere. Properties of atmosphere . The International Standard Atmosphere.

VISIBILITY - Basics, Humidity, Haze, Measurement

CLOUDS, PRECIPITATION - Cloud formation. Convection. Cloud Classification. Precipitation,

WINDS, THUNDERSTORMS, ICING - WINDS. Measurement. Forces. Wind Gradient. Thunderstorms, Supercells, Dangers of thunderstroms.

AIR MASSES AND WEATHER FRONT- Warm front. Cold Front. Occlusion. Stationary front. Convergence and squall lines. GLOBAL CLIMATOLOGY - Climatology. Jetstream. Low and High pressure areas..

WEATHER REPORTS - Weather infromation. Weather Reports and Forecasts (METAR, TAF and others)

15. Description of practices

16. Description of labortory practices

17. Learning outcomes

A. Knowledge

• Familiar with the meteorological processes affecting Air Traffic, know and understand their impact on aviaton safety. Knows the weather reporting and forecasting methods used in aviation.

B. Skills

 Ability to assess the impact of a given weather phenomenon on flight, from the point of view of aviation safety, economy and operation. Can interpret different flight meteorological messages.

C. Attitudes

D. Autonomy and Responsibility

• Interested, responsive, making decisions with care and responsibility.

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

Mid-term requirement: Performing laboratory excercises and 1 mid term exam

Final grade: 1 exam measuring the theoretical knowledge. The final grade is the result of the exam

19. Opportunity for repeat/retake and delayed completion

Retake possibility of a laboratory excercise or the mid-term exam Retake exam possible according to the general rules of BME

20. Learning materials

The presentation about the lectures
Literature

Effective date 10 October 2019 This Subject Datasheet is valid for Inactive courses