



<b>1. Subject name</b>	<b>Meteorology</b>				
<b>2. Subject name in Hungarian</b>	Meteorology				
<b>3. Code</b>	<b>BMEKOVVM231</b>	<b>4. Evaluation type</b>	<b>exam grade</b>	<b>5. Credits</b>	<b>3</b>
<b>6. Weekly contact hours</b>	<b>2 (7) Lecture</b>	<b>0 (0) Practice</b>	<b>0 (0) Lab</b>		
<b>7. Curriculum</b>	<b>Transportation Engineering MSc (K)</b>	<b>8. Role</b>	<b>Specialization (sp) at Transportation Engineering MSc (K)</b>		
<b>9. Working hours for fulfilling the requirements of the subject</b>					<b>90</b>
<b>Contact hours</b>	28	<b>Preparation for seminars</b>	4	<b>Homework</b>	0
<b>Reading written materials</b>	36	<b>Midterm preparation</b>	12	<b>Exam preparation</b>	10
<b>10. Department</b>	<b>Department of Aeronautics and Naval Architectures</b>				
<b>11. Responsible lecturer</b>	Dr. Rohács Dániel				
<b>12. Lecturers</b>	Dr. Rohács Dániel, Jankovics István				
<b>13. Prerequisites</b>					
<b>14. Description of lectures</b>					
<p>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 information. Weather Reports and Forecasts (METAR, TAF and others)</p>					
<b>15. Description of practices</b>					
<b>16. Description of laboratory practices</b>					
<b>17. Learning outcomes</b>					
<p>A. Knowledge</p> <ul style="list-style-type: none"> <li>Familiar with the meteorological processes affecting Air Traffic, know and understand their impact on aviation safety. Knows the weather reporting and forecasting methods used in aviation.</li> </ul> <p>B. Skills</p> <ul style="list-style-type: none"> <li>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.</li> </ul> <p>C. Attitudes</p> <p>-</p> <p>D. Autonomy and Responsibility</p> <ul style="list-style-type: none"> <li>Interested, responsive, making decisions with care and responsibility.</li> </ul>					
<b>18. Requirements, way to determine a grade (obtain a signature)</b>					
<p>Mid-term requirement: Performing laboratory exercises and 1 mid term exam          Final grade: 1 exam measuring the theoretical knowledge. The final grade is the result of the exam</p>					
<b>19. Opportunity for repeat/retake and delayed completion</b>					
<p>Retake possibility of a laboratory exercise or the mid-term exam          Retake exam possible according to the general rules of BME</p>					
<b>20. Learning materials</b>					

---

The presentation about the lectures  
Literature

**Effective date**

10 October 2019

**This Subject Datasheet is valid for**

Inactive courses

---