

<b>Number of Module</b>	<b>Name of Module</b>	<b>Lecturer</b>
VW-ATL-21a	Terminal Operations	Prof. Hartmut Fricke hartmut.fricke@tu-dresden.de
<b>Qualification Aim</b>	The students have knowledge of structures and measures to ensure aviation security. They can evaluate different security strategies specifically for terminal operations. Students are also able to describe the individual processes of passenger handling in the terminal with the aid of specific parameters and to model these operating processes. Students will be able to develop and apply stochastic-based models.	
<b>Content</b>	Content of the module are: <ul style="list-style-type: none"> <li>- Characterization of operating and movement processes in the terminal, such as general factors influencing aviation security,</li> <li>- Procedures and guidelines for emergency management,</li> <li>- Procedures for the assessment of hazard potentials,</li> <li>- modeling of operation and movement processes in the terminal of an airfield as well as</li> <li>- Requirements and design criteria for control systems in terminals.</li> </ul>	
<b>Teaching and Learning Methods</b>	3 SWS lecture, 1 SWS tutorial, and independent study.	
<b>Requirements for Participation</b>	Basic knowledge in linear algebra and analysis, differential equations and differential calculus, integral calculus, stochastics, traffic system theory, sound knowledge of the office application EXCEL and the programming language Python on bachelor level are required. In addition, the competencies to be acquired in the module Operations Research and Logistics are required.	
<b>Usability</b>	This module is one of 29 elective modules in the master's degree program Air Transport and Logistics, which must be chosen according to § 32 paragraph 3 of the examination regulations.	
<b>Requirements for the Award of Credits</b>	Credit points are earned when the module examination is passed. The module examination consists of a written examination lasting 120 minutes. The prerequisite for the examination is a test of 45 minutes. The examination language of the written paper and the test is German or English, at the student's choice.	
<b>Credit Points and Grades</b>	5 credit points can be acquired through the module. The module grade corresponds to the grade of the examination performance.	
<b>Frequency of Module</b>	The module is offered each academic year in the summer semester.	
<b>Workload</b>	The total workload is 150 hours.	
<b>Duration of the Module</b>	The module lasts one semester.	