

<b>Georg-August-Universität Göttingen</b> <b>Module B.WIWI-BWL.0052: Logistics Management</b>	6 C 4 WLH
<b>Learning outcome, core skills:</b> The students <ul style="list-style-type: none"> <li>• are able to define the term “logistics” and to differentiate the functions and subareas of logistics,</li> <li>• are able to classify the term “supply chain management” and derive the associated goals,</li> <li>• know the objectives and constraints of layout planning,</li> <li>• are able to classify transport and vehicle routing within the logistical context,</li> <li>• are able to use basic algorithms on simple problems of layout and transport planning as well as vehicle routing,</li> <li>• know the basic structures of queuing systems,</li> <li>• are able to use simple calculations for queuing systems,</li> <li>• are familiar with storage requirement, functions, sorts and techniques,</li> <li>• are able to define the procedure of order-picking, know the different requirements and are able to define criteria for order-picking quality,</li> <li>• are able to use methods from Operations Research .</li> </ul>	<b>Workload:</b> Attendance time: 56 h Self-study time: 124 h
<b>Course:</b> B.WIWI-BWL.0052.Lec <b>Logistics Management</b> (Lecture) <i>Contents:</i> This lecture provides the fundamentals of logistics and logistics management . The focus is on the model-based decision-support and quantitative methods in logistics. In particular, the areas of layout planning, planning of transport and vehicle routing, queuing theory and storage and picking techniques as well as the planning of the material flow are considered.	2 WLH
<b>Course:</b> B.WIWI-BWL.0052.Ex <b>Logistics Management</b> (Exercise) <i>Contents:</i> Application of above topics and methods with numerical examples. For instance: <ul style="list-style-type: none"> <li>• Layout planning: Triangulation method</li> <li>• Transportation planning</li> <li>• Vehicle Routing Problems</li> <li>• Queuing theory ( - M/M/1 and M/M/c queuing problems )</li> <li>• Storing and order-picking</li> </ul>	2 WLH
<b>Examination: Written examination (90 minutes)</b> B.WIWI-BWL.0052.Mp: Logistikmanagement (MAN/MDM)	6 C
<b>Examination requirements:</b> In the module exam the students prove knowledge in following areas: <ul style="list-style-type: none"> <li>• Fundamentals of logistics management</li> <li>• Intra-company layout planning</li> <li>• Transport planning and vehicle routing</li> <li>• Queuing theory</li> </ul>	

<ul style="list-style-type: none"> <li>• Storage and order-picking</li> <li>• Application of basic algorithms form Operations Research on logistics proble</li> </ul>	
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<b>Admission requirements:</b> none	<b>Recommended previous knowledge:</b> B.WIWI-BWL.0004 Production and Logistics B.WIWI-OPH.0002 Mathematics
<b>Language:</b> English	<b>Person responsible for module:</b> Prof. Dr. Matthias Klumpp
<b>Course frequency:</b> each winter semester	<b>Duration:</b> 1 semester[s]
<b>Number of repeat examinations permitted:</b> twice	<b>Recommended semester:</b> 4 - 6
<b>Maximum number of students:</b> not limited	