

## Course Description – summer 2022

<b>Title</b>	Factory Planning and Enterprise Logistics
<b>Faculty</b>	Mechanical Engineering
<b>Professor</b>	Prof. Dr. Lutz Huxholl
<b>ECTS</b>	5
<b>Level</b>	Bachelor
<b>Requirements</b>	-
<b>Add. Information</b>	<a href="https://www.hs-schmalkalden.de/hochschule/fakultaeten/fakultaet-maschinenbau/internationales/englische-kurse.html">https://www.hs-schmalkalden.de/hochschule/fakultaeten/fakultaet-maschinenbau/internationales/englische-kurse.html</a>
<b>Content</b>	<p>The module „Factory Planning and Enterprise Logistics“ draws attention to planning a new production site respectively optimising an existing site. It covers aspects to be considered for the location of a new site and the design and the layout of the buildings and processes to be used. The organisation of the processes within the site will also be illustrated. Coming from the product, processes related to manufacturing (how to design a certain workplace) and logistics (means of transportation) have to be designed fulfilling the market requirements in terms of economic targets, timing and flexibility for model and volume changes. The module gives an overview about the tools and methods to be used. This includes simulation tools for manufacturing, material flow and capacity planning. Finally, the performance of a manufacturing organisation is affected by stock-keeping and warehousing. Basics of the configuration of warehouses such as storage space and traffic zones will be explained.</p>