

MME-CAME – Track: Modelling and Simulation Engineering – Suggested Curriculum Overview

1 Semester WS	Engineering Compulsory Courses				Engineering Elective Courses		<p style="text-align: center;">German language course (Once in any of the 4 semesters, recommended in the beginning of studies)</p>
Computational Intelligence in Engineering Quality Management Advanced Control Systems Management and Engineering Perspectives				and	Elective Courses		
				Choose from these electives <ul style="list-style-type: none"> • Additive Manufacturing I - Technologies and Processes • Modelling, Model Reduction and Simulation in Laser Processing - Applications • Numerical Methods in Mechanical Engineering • Machine Tools • Control Engineering • Tensor Algebra and Tensor Analysis for Engineering Students I • Mechatronics and Control Techniques for Production Plants • Artificial Neural Networks in Structural Mechanics • Advanced Finite Element Methods • Fundamentals of Lightweight Design 			
2 Semester SS	Engineering Compulsory Courses				Engineering Elective Courses		<p style="text-align: center;">German language course (Once in any of the 4 semesters, recommended in the beginning of studies)</p>
Failure of Structures and Structural Elements Nonlinear Structural Mechanics Continuum Mechanics Intelligent Monitoring of Engineering Systems				and	Elective Courses		
Management Compulsory Courses				Choose from these electives			
Marketing Management				<ul style="list-style-type: none"> • Multibody Dynamics • Simulation of Discrete Event Systems • Mechanics of Engineering Materials • Digital Work: Challenges and Solutions 			
3 Semester WS	Engineering Compulsory Courses						<p style="text-align: center;">German language course (Once in any of the 4 semesters, recommended in the beginning of studies)</p>
Advanced Software Engineering							
Management Compulsory Courses							
Financial Management Human Resource Management Management Accounting Strategic Management							
International Business							
4 Semester SS	Master Thesis (six months)						<p style="text-align: center;">German language course (Once in any of the 4 semesters, recommended in the beginning of studies)</p>