

MME-CAME – Track: Digital Engineering – Suggested Curriculum Overview

1 Semester WS	<p style="text-align: center;">Engineering Compulsory Courses</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">Computational Intelligence in Engineering</td> <td style="width: 25%;">Quality Management</td> <td style="width: 25%;">Advanced Control Systems</td> <td style="width: 25%;">Management and Engineering Perspectives</td> </tr> </table>	Computational Intelligence in Engineering	Quality Management	Advanced Control Systems	Management and Engineering Perspectives	<p style="text-align: center;">Engineering Elective Courses</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">Elective Courses</td> </tr> </table> <p style="text-align: center;">and</p> <p>Choose from these electives</p> <ul style="list-style-type: none"> • Advanced Finite Element Methods • Control Engineering • Artificial Neural Networks in Structural Mechanics • Fundamentals of Lightweight Design • Tensor Algebra and Tensor Analysis for Engineering Students I • Mechatronics and Control Techniques for Production Plants • Additive Manufacturing I - Technologies and Processes • Laser Applications • Machine Tools 	Elective Courses	<p>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						
Elective Courses									
2 Semester SS	<p style="text-align: center;">Engineering Compulsory Courses</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">Manufacturing Technology II</td> <td style="width: 25%;">International Factory Planning</td> <td style="width: 25%;">Artificial Intelligence and Data Analytics for Engineers</td> <td style="width: 25%;">Embedded Systems</td> </tr> </table> <p style="text-align: center;">and</p> <p style="text-align: center;">Management Compulsory Courses</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">Marketing Management</td> </tr> </table>	Manufacturing Technology II	International Factory Planning	Artificial Intelligence and Data Analytics for Engineers	Embedded Systems	Marketing Management	<p style="text-align: center;">Engineering Elective Courses</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">Elective Courses</td> </tr> </table> <p style="text-align: center;">and</p> <p>Choose from these electives</p> <ul style="list-style-type: none"> • Intelligent Monitoring of Engineering Systems • Multibody Dynamics • Mechanics of Engineering Materials • Digital Work: Challenges and Solutions 		Elective Courses
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Marketing Management									
Elective Courses									
3 Semester WS	<p style="text-align: center;">Engineering Compulsory Courses</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">Production Management A</td> </tr> </table> <p style="text-align: center;">Management Compulsory Courses</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">Financial Management</td> <td style="width: 25%;">Human Resource Management</td> <td style="width: 25%;">Management Accounting</td> <td style="width: 25%;">Strategic Management</td> </tr> </table> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">International Business</td> </tr> </table>	Production Management A	Financial Management	Human Resource Management	Management Accounting	Strategic Management	International Business		
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Financial Management	Human Resource Management	Management Accounting	Strategic Management						
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4 Semester SS	<p>Master Thesis (six months)</p>								