

## Macroplan (Stuttgart to RMIT) with Control Technology & Industrial Management

	1st term	2nd term	Intermedi ate Term	3rd term	4th term
	<b>Design (6)</b> Technical Design <i>Advanced CAE</i>				<b>Production (12)</b> Advanced Robotic Systems <i>Steuerungstechnik der                      Werkzeugmaschinen</i>
		<b>Energy (6)</b> Basics of Turbomachinery <i>Advanced Thermal Fluids</i>			<b>Material (12)</b> Advanced Mechanics of Solids <i>Festigkeitslehre I</i>
Control Technology	<b>Simulation of Automated                      Machines and Processes (6)</b> Modeling and Simulation of Engineering Systems			<b>Advanced Control Systems (12)</b>  <i>Steuerungstechnik</i>	
	<b>Applied Closed Control in                      Production Machines (3)</b> Advanced Dynamics	<b>Practical Laboratory Control                      Technology (3)</b> Advanced Dynamics			
Industrial Management				<b>Sustainable Engineering Practice                      and Design (12)</b>  <i>Strategien in Entwicklung und Produktion</i>	
	<b>Factory Planning and                      Maintenance (3)</b> Risk and Project Management	<b>Practical Laboratory Industrial                      Management (3)</b> Risk and Project Management			
		<b>Information and Knowledge-                      Management (6)</b>  <i>Innovation and Technology Management</i>			
Miscel- laneous	<b>Lab Project (12)</b> Research Methods in Engineering	<b>Internship (12)</b> To absolve from Sept. to Jan			
	<b>Soft Skills. (3)</b>	<b>Model., Sim. and Opt. (3)</b>		<b>Master Thesis (24CP)</b>	<b>Master Thesis (24CP)</b>
<b>Sum</b>	30 ECTS	36 ECTS		48 CP	48 CP

## Macroplan (Stuttgart to RMIT) with System Dynamics & Technology Management

	1st term	2nd term	Intermedi- ate Term	3rd term	4th term
	<b>Energy (6)</b> Basics of Turbomachinery <i>Advanced Thermo Fluids</i>			<b>Modeling &amp; Simulation (12)</b> SQ: Modell., Sim. u. Opt. II Pract. Laboratory System Dynamics	<b>Production (12CP)</b> Advanced Robotic Systems <i>Steuerungs. der Werkzeugmaschinen</i>
		<b>Design (6)</b> <i>Methodical Product Development</i> <i>Sustainable Eng. Practice &amp; Design</i>			<b>Material (12CP)</b> Advanced Mechanics of Solids <i>Festigkeitslehre I</i>
System Dynamics	<b>Modeling and Identification of Dynamical Systems (6)</b> Advanced Dynamics			<b>Advanced Control Systems (12)</b>  <i>Flat Systems</i>	
	<b>Object. Modeling (3)</b> Modeling and Simulation of Engineering Systems				
Technology Management	<b>Technology Management (6)</b> Innovation and Technology Management				
	<b>Simultaneous Engineering und Project Management (3)</b> Risk and Project Management	<b>Practical Laboratory Technology Management (3)</b> Risk and Project Management			
		<b>Industrial Design Engineering (6)</b> <i>Advanced CAE</i>			
Miscellaneous		<b>Internship (12)</b> To absolve from Sept. to Jan			
	<b>Student Project (12)</b> Research Methods in Engineering	<b>Soft Skills (3)</b>		<b>Master Thesis (24CP)</b>	<b>Master Thesis (24CP)</b>
<b>Sum</b>	<b>30 ECTS</b>	<b>36 ECTS</b>		<b>48 CP</b>	<b>48 CP</b>