

Module Description ME_601 Mechatronical Project

Last update:
November 7, 2016

Degree: Bachelor of Engineering

1	module no. ME 601	degree programme ATB/ETB/FTB	semester 6	starts in <input checked="" type="checkbox"/> WS <input checked="" type="checkbox"/> SS	duration 1 Semester	module type mandatory	workload (h) 150	ECTS Credits 5
2	courses		type of instruction		language	contact hours (SWS) (h)	self-study (h)	ECTS Credits
	a) mechatronical project		project work		German and English	2 30	120	5
	b)							
	c)							
	d)							
	e)							
	f)							
3	table of qualifications		expertise	methodological skills	personal & social skills			
	knowledge & understanding		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
	applying knowledge & understanding		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
	analysing & evaluating		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
	acquiring and broadening knowledge		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
4	<p>learning outcome and competences On completion of the module the students are expected to be able to:</p> <ul style="list-style-type: none"> Klicken Sie hier, um Text einzugeben. <p>knowledge and understanding The students perceive the value of a good working atmosphere and a good team structure for the success of a project.</p> <p>applying skills The students</p> <ul style="list-style-type: none"> apply skills and competences achieved during the current study semesters and the internship to purposefully meet the targets of the projects. record project meetings and take down their results achieved <p>analysing and evaluating</p> <ul style="list-style-type: none"> Analysing risks to meet the targets as far as the engineering side or the time schedule is concerned, evaluating them and defining measures to counteract, if necessary. Analysing and judging working results of the project targets from other project partners together with the whole team. Debating and deciding on the appropriate action with the whole team to meet the project targets. Klicken Sie hier, um Text einzugeben. <p>acquiring and broadening skills</p> <ul style="list-style-type: none"> According to the project task, the project teams design advices or gadgets, modify test stands or test facilities and develop laboratory experiments and so on. Gather information on the project tasks, develop the necessary special know-how. 							

Module Description ME_601 Mechatronical Project

**Last update:
November 7, 2016**

Degree: Bachelor of Engineering

5	<p>content</p> <p>a)</p> <ul style="list-style-type: none"> -Each semester, current project tasks are defined by the colleagues involved and presented to the students who have to accomplish the tasks and take down the results in a requirement specification. The project tasks may be initiated by industrial partners. Student groups are divided by drawing lots. -The students work out requirement specifications and time schedules and work on the project together with the team. The cooperation with students of other faculties (e.g. WI) is appreciated. <p>The teams make regular presentations of their work and show their results in a final presentation. The whole project is documented in writing.</p>
6	<p>prerequisites: According to the study and examination regulations: first section passed</p> <p>recommended: Successful passing of the first four semesters and the internship. Klicken Sie hier, um Text einzugeben.</p>
7	<p>type of assessment and requirements for credits</p> <p>a) Successful processing of the project task in the team with report and construction (draft), presentation of the results. The module is to be assessed (individually, not for the whole project team).</p>
8	<p>use of the module mandatory module in the bachelor degree programme of ATB, ETB, FTB</p>
9	<p>person responsible for the module and other lecturers involved Prof. Dr.-Ing. Markus Kaupp as well as all professors of the Faculty ME</p>
10	<p>literature</p> <ul style="list-style-type: none"> • Different manuals on project management and presentation skills
11	<p>contribution to the educational aims of the degree programme</p> <p>The students gain interdisciplinary skills, are capable of presenting their results and learn to structure their work, to organise themselves and to critically analyse it. They are capable of presenting their work, of moderating groups and of leading projects. They have a good command of self-management-methods as well as the capability of self-criticism. The graduates are capable of analysing the quality of their work and of systematically using quality management systems. They are capable of working with people from different cultures.</p>
12	<p>last update: November 16</p>