



## HÖGSKOLAN I GÄVLE

# Bachelor of Science in Engineering Thesis in Mechanical Engineering 15cr

*Examensarbete för högskoleingenjörsexamen i maskinteknik 15hp*

Set by Faculty of Engineering and Sustainable Development

<b>Version</b>	<b>Set at</b>	<b>Valid from</b>
	5/10/11	VT2011

<b>Level</b>	G1E
<b>Education level</b>	First cycle
<b>Course identifier</b>	MTG600
<b>Credits</b>	15cr
<b>Main field of study</b>	Mechanical Engineering
<b>Subject group</b>	Mechanical Engineering
<b>Disciplinary domain</b>	Technology 100.0%

<b>Learning outcomes</b>	<p>The degree project should provide skills in independent management and engineering solutions to a determined assignment in mechanical engineering. On completion of the course, the student should be able to:</p> <ol style="list-style-type: none"><li>1. apply acquired knowledge and skills in mechanical engineering in an individual project</li><li>2. plan and carry out an investigation or development work linked to the education</li><li>3. present the project in writing</li><li>4. present and discuss the results orally</li><li>5. review, evaluate and discuss another degree project.</li></ol>
<b>Course content</b>	<p>Own research or development work with connection to the education Literature and methodology studies Presentation of own work</p>
<b>Teaching</b>	<p>Individual supervision. The work is carried out individually or in pairs. In the latter case, the contributions of the individuals should be clearly stated. The subject should be approved by examiner before start. The work progress should be presented to the supervisor at least twice before the examination.</p>

<b>Prerequisites</b>	Approved basic courses, at least 120 HE credits within the education. Courses necessary for the specialisation of the degree project must be completed. The examiner decides case by case which special courses are required in order to carry out the degree project.		
<b>Examination</b>	0010 Degree Project, 15 HE credits The degree project should be presented in writing in the form of an essay (expected learning outcomes 1, 2 Examensarbetet skall presenteras skriftligt i form av en uppsats (Irandeml 1,2 & 3).#38; 3) . The degree project should be presented and discussed orally in a public examination (expected learning outcomes 1, 2 Examensarbetet skall presenteras och diskuteras muntligt vid en offentlig examination (Irandeml 1,2 & 4).#38; 4) . The student should publicly discuss another student's degree project (expected learning outcomes 5).		
<b>Grade</b>	A, B, C, D, E, Fx, F		
<b>Sustainable environment</b>	A minor part of the course content deals with sustainable development.		
<b>Module</b>	0010 Thesis	15cr	Grade: AF