



## Advanced Projects in Electronics 7.5 cr

Avancerade projekt i elektronik 7,5 hp

Set by Faculty of Engineering and Sustainable Development

Version	Set at	Valid from
	10/11/13	HT2014

Level	A1F
Education level	Second cycle
Course identifier	EEA307
Credits	7.5 cr
Main field of study	Electronics
Subject group	Electronics
Disciplinary domain	Technology 100.0 %
Learning outcomes	<ul> <li>After completion of the course the student shall be able to</li> <li>1. state the principles of project management</li> <li>2. state a specific technichal area related to on-going research conducted in Electronics at the Faculty of Engineering and Sustainable Development</li> <li>3. conduct an advanced science project by applying project management principles</li> <li>4. state the relevance of the technical knowledge developed throughout the project, as well as reflect on the project management principles used in practice.</li> </ul>
Course content	Theoretical base: Introduction Determining Directions and Initial Specifications Work Breakdown Structure Project Scheduling Developing Project Teams The Project Team's Environment Leading Project Teams Writing Project Reports

Page 1

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	Use of project management principles in practice by conducting a limited research project Reporting of technical achievements in a standardized scientific (IEEE) way Project logbook with reflective analysis Presentation in public			
Teaching	The first part of the course consists of literature studies and lectures on project management. The middle part of the course consists of working actively with a project in a student group (max. four students) solving a limited advanced problem within a research field of Electronics. The problem could be based on one or several of the advanced courses in the Master's Program in Electronics, but is preferably conducted as a limited problem defined by any of the electronics research groups of University of Gävle. The final part consists of reporting and analysing the project as well as public presentation.			
Prerequisites	English language proficiency equivalent to (the Swedish upper secondary school) English course 6/B. All previous advanced level courses within the Master's Program in Electronics must be finished before this course.			
Examination	Written report that specifies the group's technical results and the methodological approa- used to investigate and solve the advanced technological problem. Documentation logbook that describes the use of relevant project management principle the project including a reflexive evaluation of the group activity, the application of management principles, gained knowledge, and general outcome.			
	Credits are awarded after completed course. The grades will be based on the execution of the advanced project on a team level, reviewed both in terms of the explicit use of project management principles and in terms of the technical result of the project and presentation.			
Grade	A, B, C, D, E, Fx, F			
Limitations	The course is only given once a year and based on the project nature of the course with only one examination every year. Students that fail are welcome to join a new project the next time the course is given.			
Other regulations	Criteria for final grade will be handed out at the beginning of the course.			
	Additional articles and relevant books may be required to fulfill the project part of the course.			
Sustainable environment	Content with sustainable development is not relevant to this co	ourse.		
Module	0010 Written report and audio-visual presentation	3.5 cr	Grade: AF	
	0020 Documentation logbook	4 cr	Grade: AF	

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Page 2