# International project course in Automatic Control, FRT100 spring 2012

## **4,5 ects**

As of 2011-11-28

#### Administration

Responsible for the course is associate professor Charlotta Johnsson (046-222 87 89) at the Department of Automatic Control. Teaching assistant is Vanessa Romero-Segovia (046-222 97 43). Secretary of the department is Eva Westin (046-222 87 87). Their offices are on the 2nd and 5th floor of the Mechanical Engineering building.

## **Prerequisites**

Automatic Control, Basic Course, (FRT010)

#### Course

The course is given together with Technische Universität in Kaiserslautern, Germany. The aim of the course is to work together in an international environment, with a problem that has been formulated by an industrial company.

#### **Course Material**

The course material will vary depending on the problem-formulation. Some of the course material will be provided by the course responsible, and some of the material will consist of relevant books, articles, reports etc that the students find themselves. Each student will get a binder in which the material can be placed.

#### Weekly meetings

There will be one fixed meeting per week. This will take place on Thursdays at 13-15 in the seminare room of Dept. of Automatic Control (2nd floor, M-building). In addition to this there will be group meetings arranged by the students.

#### Schedule

Study- Week	Date	Task	Comment
1	January 19 at 13.15- 15.00,	Initial meeting	At this first meeting, the group should confirm the course schedule (dates, times etc), the group will also be informed about the visit of the German students.
1	January 20 at 13.15- 15.00 ,	Initial meeting	Extra meeting,, to be used only if the discussions on January 19 needs more time.
2	January 23-26	Meetings with the German students	During these days, the German students are in Sweden. The task is to inform the Swedish students about the industrial problem. See separate schedule (to be determined)
3	January 30 – February 3	Working with the project	Weekly meeting: Feb 2, 13.15-15.00 Group work

4	February 6-10	Working with the	Weekly meeting: Feb 9, 13.15-15.00
		project	Group work
5	February 13-17	Working with the	Weekly meeting: Feb 16, 13.15-15.00
		project	Group work
6	February 20-24	Working with the	Weekly meeting: Feb 23, 13.15-15.00
		project	Group work
7	February 28 – March 2	Visit in Germany	Tentative dates 28/2-2/3 2012.  - 28/2: travel to Germany  - 29/3: Prepare the presentation and the report.  - 1/2: Prepare the presentation and the report.  - 2/3: Presentation for the German company
8 (week of exams)	March 5-9	No exam	No activities
+1	March 12-16	Final meeting Hand in of report. Oral presentation in Sweden.	Final meeting: March 15, 13.15-15.00  In this meeting we will summarize the course. The final report and the visit in Germany will be discussed. The final report should be handed in and an oral presentation should be made.

## Language check

As part of the course text written by the students will undergo a language check (this activity should be confirmed). The language check is made on an individual basis, this means that each student writes some text (this could very well be text supposed to be included in the final report later on) and as part of this course, the text is sent for language check. The aim is to give the students a hint of were they most frequently make their errors. This is a very valuable knowledge, also after the course.

The text should be sent to Charlotta no later than Monday March 7/3. The length of the text should be  $\frac{1}{2}$ -1 page (300 words). Prefereably, the text should be written for inclusion in the project report.

#### **Exam**

In order to pass the course a written project-report should be handed in (one report from the group). In addition to this an oral presentation should be performed in Sweden (approx 20 minutes). The group will travel to Germany for some final work with the German students. The Swedish and German students should, together, make a final-report and a presentation for the company that formulated the problem. The cost for travelling and lodging are covered by the course.

Requirements on the project-report

- English language should be used
- About 7 pages long
- The project problem and the solution should be described.
- References should be given when needed.

## **More information**

Please see the course homepage <a href="http://www.control.lth.se/Education/EngineeringProgram/FRT100.html">http://www.control.lth.se/Education/EngineeringProgram/FRT100.html</a>

# **Contact information**

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## **Swedish Students**

Name	Program	Email and Cellphone number	Other info

## **German Students**

Name	Program	Email	Other info