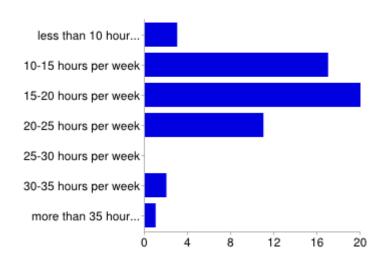
54/54 responses (survey handed out in class)

Section 1: Overall Course Set-up

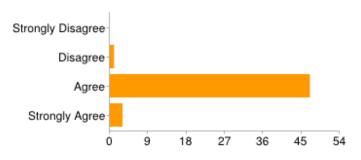
1. Estimate how much time you spent PER WEEK on this course (including lectures, labs and homework).



less than 10 hours per week	3	6%
10-15 hours per week	17	31%
15-20 hours per week	20	37%
20-25 hours per week	11	20%
25-30 hours per week	0	0%
30-35 hours per week	2	4%
more than 35 hours per week	1	2%

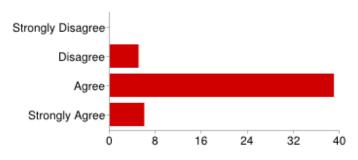
2. The stated learning goals for the course...

2a) ... corresponded well to the course content [2)



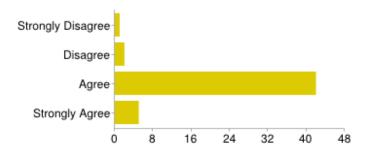
0	0%
1	2%
47	87%
3	6%
	1 47

2b) ... were well supported by the course materials and handouts



Strongly Disagree	0	0%
Disagree	5	9%
Agree	39	72%
Strongly Agree	6	11%

2c) ... were well supported by the way the course was organised.



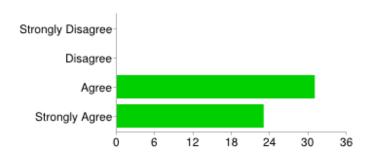
Strongly Disagree	1	2%
Disagree	2	4%
Agree	42	78%
Strongly Agree	5	9%

[as at 2015.01.24]

54/54 responses (survey handed out in class)

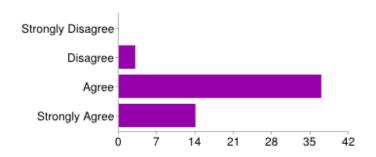
3. The LAB content was...

3a) ... relevant to the course and improved my understanding.



Strongly Disagree	0	0%
Disagree	0	0%
Agree	31	57%
Strongly Agree	23	43%

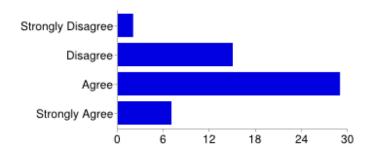
3b) ... in pace with the course material / lectures



Strongly Disagree	0	0%
Disagree	3	6%
Agree	37	69%
Strongly Agree	14	26%

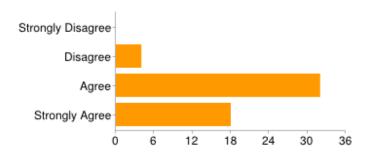
4. The course...]

4a) ... had a reasonable workload.



Strongly Disagree	2	4%
Disagree	15	28%
Agree	29	54%
Strongly Agree	7	13%

4b) ... was intellectually challenging.

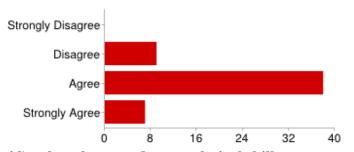


Strongly Disagree	0	0%
Disagree	4	7%
Agree	32	59%
Strongly Agree	18	33%

[as at 2015.01.24]

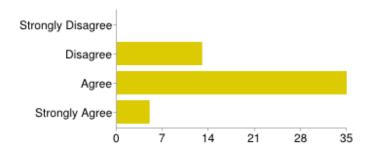
54/54 responses (survey handed out in class)

4c) ... has developed my problem-solving skills.



Strongly Disagree00%Disagree917%Agree3870%Strongly Agree713%

4d) ... has sharpened my analytical skills.

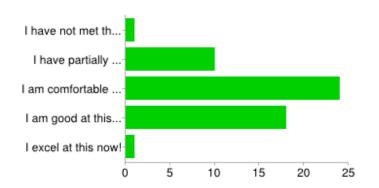


Strongly Disagree00%Disagree1324%Agree3565%Strongly Agree59%

Section 2a: Course-specific Learning Objectives

5. Based on the learning objectives laid out in the Course Plan, please choose the option that best describes YOUR accomplishment of each objective.

5a) provide examples of existing embedded systems based products and describe the special requirements placed in developing such systems.

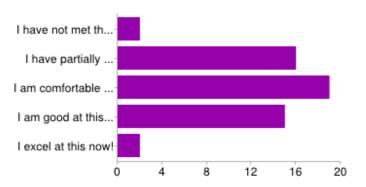


I have not met this objective	1	2%
I have partially met this objective	10	19%
I am comfortable with this now	24	44%
I am good at this now	18	33%
I excel at this now!	1	2%

[as at 2015.01.24]

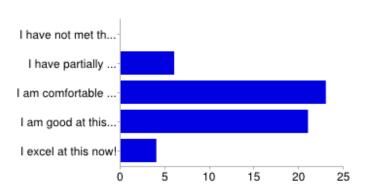
54/54 responses (survey handed out in class)

5b) use modern integrated development environments for microcontroller programming and their features for testing and debugging.



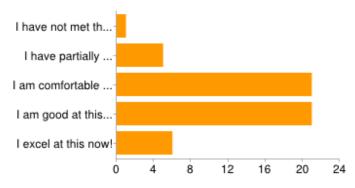
I have not met this objective	2	4%
I have partially met this objective	16	30%
I am comfortable with this now	19	35%
I am good at this now	15	28%
I excel at this now!	2	4%

5c) understand the basics of Model-Based Development, and apply it in the context of embedded systems development



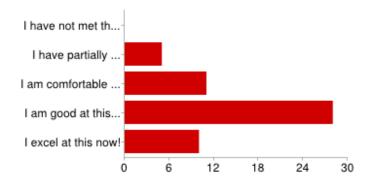
I have not met this objective	0	0%
I have partially met this objective	6	11%
I am comfortable with this now	23	43%
I am good at this now	21	39%
I excel at this now!	4	7%

5d) describe and explain the basic operation of microcontrollers, their internal features and peripherals



I have not met this objective	1	2%
I have partially met this objective	5	9%
I am comfortable with this now	21	39%
I am good at this now	21	39%
I excel at this now!	6	11%

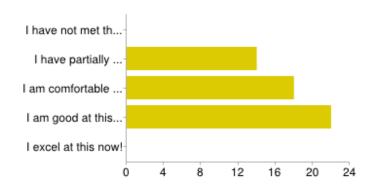
5e) develop basic microcontroller programmes for mechatronics applications



I have not met this objective	0	0%
I have partially met this objective	5	9%
I am comfortable with this now	11	20%
I am good at this now	28	52%
I excel at this now!	10	19%

54/54 responses (survey handed out in class)

5f) describe, explain and apply some of the basic communication protocols

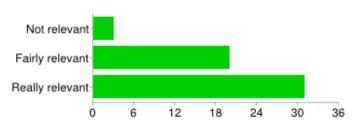


I have not met this objective	0	0%
I have partially met this objective	14	26%
I am comfortable with this now	18	33%
I am good at this now	22	41%
I excel at this now!	0	0%

[as at 2015.01.24]

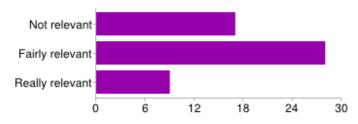
6. How relevant did you find each theme for YOUR education?

6a) Introduction to AVR32 [



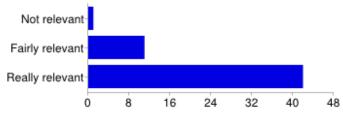
Not relevant	3	6%
Fairly relevant	20	37%
Really relevant	31	57%

6b) Programming is a Craft



Not relevant	17	31%
Fairly relevant	28	52%
Really relevant	9	17%

6c) Power Management



Not relevant	1	2%
Fairly relevant	11	20%
Really relevant	42	78%

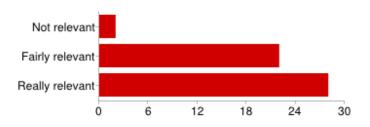
6d) Distributed Systems

Not relevant						
Fairly relevant						
Really relevant						
(Ó	10	20	30	40	50

Not relevant	1	2%
Fairly relevant	5	9%
Really relevant	48	89%

54/54 responses (survey handed out in class)

6e) Model Based Development



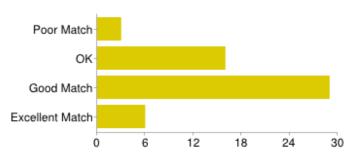
Not relevant 2 4% Fairly relevant 22 41% Really relevant 28 52%

[as at 2015.01.24]

Section 2b: Course Content

7. How did the content meet your initial learning expectations?

7a) Introduction to AVR32



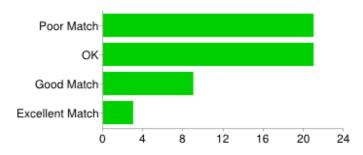
 Poor Match
 3
 6%

 OK
 16
 30%

 Good Match
 29
 54%

 Excellent Match
 6
 11%

7b) Programming is a Craft



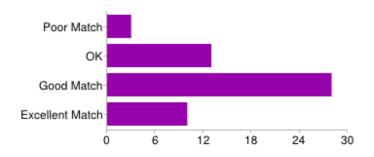
 Poor Match
 21
 39%

 OK
 21
 39%

 Good Match
 9
 17%

 Excellent Match
 3
 6%

7c) Power Management



 Poor Match
 3
 6%

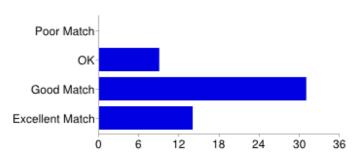
 OK
 13
 24%

 Good Match
 28
 52%

 Excellent Match
 10
 19%

54/54 responses (survey handed out in class)

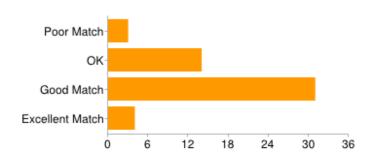
7d) Distributed Systems



Poor Match	0	0%
OK	9	17%
Good Match	31	57%
Excellent Match	14	26%

[as at 2015.01.24]

7e) Model Based Development



Poor Match	3	6%
OK	14	26%
Good Match	31	57%
Excellent Match	4	7%

8. Do you have any suggestions for improvements for the 5 themes?

8a) The Introduction to AVR32 could have been better if...

was pretty basic, I think most of us are are allusrumed to MC-programming already

The Fim course covered quite a lot of the above stated points, however since I've heared it will be less practical - the level of this course might be good. (OBS! This was written in the general field of Q8. NOT in 8a.)

Add video lectures, Video tutorials, group project

I think that it's better if this course start in the first period and give us more time to digest. Wee need more exercise to practice each theme. (OBS! This was written in general under 8. NOT in 8a!) 8.a) Have more practical implementation

more thorough for the exchange studets good

It was more debuggin learning

8) More basic concepts 8a)more labs

I think its perfect as it is now

Assign pre-study materials before the course starts

8: Better guest lectures 8a:----

8)Guest lectures could be more yeufic ,modern mietated 8a)

8b) The Programming is a Craft theme could have been better if...

not included

The PIAC module is homendous. Teach us how it works befure resring us.

we could have lecture and/or group work before the quize, since it was there I learned exmine after lab assigment

more couse

redesigning the PIAC content. Have a lecture, use examples. It was to much fumbling in the dark for us WOrk with piac before the quiz

2014/15 - Course Evaluation: MF2042 (Embedded Systems I) [as at 2015.01.24]

54/54 responses (survey handed out in class)

There is some exercise about it

PIAC module needs to be better. It was way to confusing. It was way to confusing with abstract concepts good

Better reading material was provided, if we would have known what we were expected to learn. Give the students a possibility to see the quiz from the last year so they realise what they are expected to get out of the text.

Someone actually tought us something

we have at least one "normal" lecture which the basic knowledge is explaned and hten the work in group. Change the way of teaching PIAC. a groupwork without having seeing any of it before is not useful

There was a lecture about it before the quiz and group work

We had a lecture on how to apply the techniques described in the articles. Also, the seminar should have been presented in smaller groups so that everyone feels comfortable enough to ask questions and share thoughts.

Add video lectures, Video tutorials, short movies: documentary and other genre

There are less literature reading

8c) The Power Management theme could have been better if...

It is ok as it is

Teacher could have been a bit more prepared

more examples

The lectures war better prepared and more relevant to the analysis of the lab, to understand the purpose of the lab

Teacher can give us more explanation on the basic concept

it did not felt so obvious

More learning materials are assigned pefailed working principle

It felt rushed. Take it earlier in the course

more explenation

Add video lectures, Video tutorials, short movies: documentary and other genre

8d) The Distributed Systems theme could have been better if...

Have more practical implementation

It is ok as it is

more course

good

remove noise from the thing on wall

Add video lectures, Video tutorials, short movies: documentary and other genre

Its good

There are more lectures and well-organised literature given

8e) The Model Based Development theme could have been better if...

Have more practical implementation

We had more time

More using example

more coplex

good

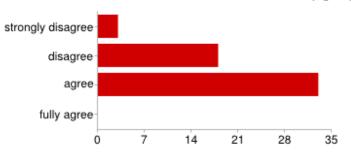
Add video lectures, Video tutorials, short movies: documentary and other genre

check

Section 3: Your Thoughts on the Learning Experience

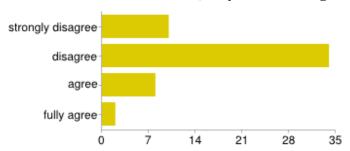
9. Looking back over the course and labs as a whole, please rate your feelings about the following statements.

9a) I received a lot of valuable feedback on my progress and achievements



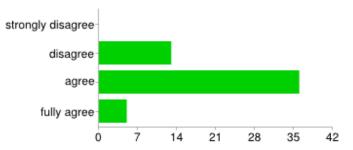
strongly disagree	3	6%
disagree	18	33%
agree	33	61%
fully agree	0	0%

9b) To do well in this course, all you need is a good memory.



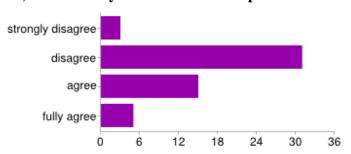
strongly disagree	10	19%
disagree	34	63%
agree	8	15%
fully agree	2	4%

9c) The course has made me feel more confident about tackling new and unfamiliar problems



strongly disagree	0	0%
disagree	13	24%
agree	36	67%
fully agree	5	9%

9d) It was always clear what was expected of me in this course



strongly disagree	3	6%
disagree	31	57%
agree	15	28%
fully agree	5	9%

9e) The staff made a real effort to understand any problems we had

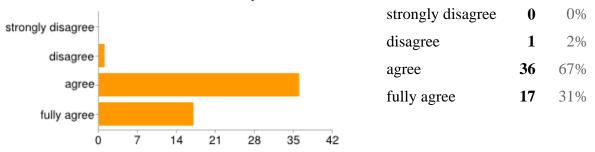
strongly disagree						
disagree-						
agree-						
fully agree						
(6	12	18	24	30	36

strongly disagree	1	2%
disagree	8	15%
agree	31	57%
fully agree	14	26%

54/54 responses (survey handed out in class)

[as at 2015.01.24]

9f) This course has contributed to my overall education



10. What did you enjoy LEAST about this course?

PIAC this part needs to be reviewed unclear waht was expected of us to learn IBM Rhapsody

The PIAC seminar. Seemed like almost nobody knew what it was about and the presentations felt awkward. Also, it would have been great if the class was divided into two parts with different lab occasions, so that everyone gets a computer in the mechatronics lab.

The PIAC-module

The old computors

a lot of text to read, mostly for PIAC. The literature is not too good, to much text in relation to the context PIAC

programming si a craft

The temperature in von Neumann

the PIAC-module and PM module

Programming is a craft

Too much pressure because of Laboratory-work and reading many documents and even doing small exams while there are other courses and of course unexpected problems!

Too much labs workload

11. What did you enjoy MOST about this course?

Distributed Systems

Discusion example of importaint features for e-b syst. Such as that htey work in real time

CAN labs the most practical for me

MODEL-BASE

lab assignments

Effective Lectures and Tutorials, Group work, Project work, Guest Lecture, Cooperation, and helpful assistants.

As a whole, that was a dynamic course!

Well organised learning materials

the implementations done in the lab

Understanding the can way works

Power Management and MBD, eventhough I don't know if MBD will be very relevant for me in the future it was an interesting tool

CAN-lab 2