Respondents: 1
Answer Count: 1
Answer Frequency: 100.00%

Please note that there is only one respondent to this form: the person that performs the course analysis.

Course analysis carried out by (name, e-mail):
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DESCRIPTION OF THE COURSE EVALUATION PROCESS
Describe the course evaluation process. Describe how all students have been given the possibility to give their opinions on the course. Describe how aspects regarding gender, and disabled students are investigated.
Students were offered to fill out an LEQ, but only 9 out of 25 students handed in their answers. In addition, the teachers have discussed details of the course with the students throughout the course.

DESCRIPTION OF MEETINGS WITH STUDENTS
Describe which meetings that has been arranged with students during the course and after its completion. (The outcomes of these meetings should be reported under 7, below.)
The teachers have discussed details of the course with the students throughout the course.

COURSE DESIGN
Briefly describe the course design (learning activities, examinations) and any changes that have been implemented since the last course offering.
Objectives:
This course is intended to give an overview of common experimental methods used in the laboratory in materials science. Diverse areas are covered, including scanning electron microscopy (SEM), x-ray diffraction (XRD), measurement of thermophysical properties, and thermodynamic and kinetic measurement techniques. Emphasis will also be on analysing experimental data with respect to quantifying uncertainties in measurement. This is a hands-on course with some time being spent in the lab to become familiar with the different methods.

Examination:
LABA - Lab Report, 1.0, grade scale: P, F
LABB - Lab Report, 1.0, grade scale: P, F
TENA - Written Examination, 4.0, grade scale: A, B, C, D, E, FX, F

THE STUDENTS' WORKLOAD
Does the students' workload correspond to the expected level (40 hours/1.5 credits)? If these is a significant deviation from the expected, what can be the reason?
The few answered varied from 8 - 11 hours per week for 7 students and 27-29 hours per week for the eighth student. The workload is normal for

the first 7 students but far too high for the eighth student. It is not clear why the person spent so much time, but a guess is that the person liked the different topics and laboratories so much so that he/she put in that many hours.

THE STUDENTS' RESULTS
How well have the students succeeded on the course? If there are significant differences compared to previous course offerings, what can be the reason?

The grades of the course were the following:

A:3
B:2
C:5
D:5
E:2
Fx:4
F:2

All students passed the laboratory parts.

The result is overall okay, but it could be better. The grade distribution given here is similar to the distribution of the years before.

STUDENTS´ANSWERS TO OPEN QUESTIONS
What does students say in response to the open questions?

What was the best aspect of the course?
- Laboratory work
- the second part of the course
- The process part

What would you suggest to improve?
- the timing for laboratory SEM and X-Ray was very short and it was difficult to understand everything in that limited time, I would like you to kindly give more timing to laboratory classes than theoretical classes
- I think the first part needs more explanation. And the SEM lab time was not enough because only the lab assistant was talking about it and he couldn't complete on time. May be only SEM needs 3 hours. Otherwise the course is fun :)
- The organization and conduct of the lectures. Having 1 week where there was a microscopy lecture followed by an xrd lecture, and the same thing again next week. It was hard to keep up with what we know and what we missed.
- Communication, it is so unprofessional l l I have a teacher that NEVER answers and then also to cancel labs last minute and putting it the wrong
schedule, correcting it when the lab was supposed to start, it is really frustrating as a student
- Less different topics. Going more into detail on the reduced topics.

What advice would you like to give to future participants?
- Keep studying lecture on time, don't wait for last minute study near to exam
- Only take this course if you have a lot of time
- Don't expect too much of this course
- Read the books, and learn what is being taught during the labs. As some of the lab questions will be in the report.

SUMMARY OF STUDENTS' OPINIONS
Summarize the outcome of the questionnaire, as well as opinions emerging at meetings with students.

Some of the few students that answered seemed unsatisfied with some part of the course. It was pointed out that the organisation of this part of the course has to be improved. Some of the students requested a deeper knowledge for different methods.
When we have discussed with the supervisors they also said that some students were more motivated as others, especially when it comes to the laboratory parts.

OVERALL IMPRESSION
Summarize the teachers' overall impressions of the course offering in relation to students' results and their evaluation of the course, as well as in relation to the changes implemented since last course offering.

It is all supervisors opinion that the students in general are satisfied with the course since a good overview on experimental methods is given, which will help the students to work as future engineers. In general the organization should be improved for some part of the course.

ANALYSIS
Is it possible to identify stronger and weaker areas in the learning environment based on the information you have gathered during the evaluation and analysis process? What can the reason for these be? Are there significant difference in experience between:
- students identifying as female and male?
- international and national students?
- students with or without disabilities?

Too few answers to be able to evaluate.