Dear Mr. Dr. -Ing. Julius Pfrommer (as private and confidential)

Auswertungsbericht Lehrveranstaltungsevaluation an die Lehrenden

Dear Mr. Dr. -Ing. Pfrommer,

mit diesem Schreiben erhalten Sie die Ergebnisse der automatisierten Auswertung Ihrer Lehrveranstaltung „Optimization Methods for Machine Learning and Engineering“.

Ihre Lehrveranstaltung „Optimization Methods for Machine Learning and Engineering“ hat den Lehrqualitätsindex

LQI = 99.3.

Die Auswertung zu Ihrer Lehrveranstaltung gliedert sich in folgende Abschnitte:

Mit freundlichen Grüßen,
Ihr Evaluationsteam
Dear Students,

with this survey, we ask you for your contribution to our systematic approach of course evaluations at KIT, which are one important part of quality assurance and development system.

Participation in the survey is voluntary. The survey is anonymous. No attempt will be made based on the information you have provided to draw conclusions about specific persons. The evaluation results will be published in an anonymous form (in tables and / or graphics), so that it is not possible to draw conclusions about individuals. Please do not enter any personal data, even from other persons, in the free text fields. In accordance with Art. 4 para. 1 of the “Datenschutz-Grundverordnung” (DS-GVO, General Data Protection Regulation), personal data describe all kind of information which relate to an identified or identifiable natural person. A natural person is considered as being identifiable, directly or indirectly, as soon as this natural person can be identified by means of in particular an identifier such as a name, an identification number, location data, an online identifier or one or more special characteristics expressing the physical, physiological, genetic, mental, economic, cultural or social identity.

1. Introduction

2. Questions Relating to Studies

2.1) Which degree do you wish to acquire?

- Bachelor of Science (B.Sc.) or Bachelor of Arts (B.A.) 0%
- Master of Science (M.Sc.) or Master of Arts (M.A.) 100%
- Bachelor of Education (B.Ed.) 0%
- Master of Education (M.Ed.) 0%
- State Exam Teaching degree 0%
- Others 0%
- I do not want to specify 0%

2.3) Choose your subject:

- Elektrotechnik und Informationstechnik 14.3%
- Informatik 71.4%
- Mechatronik und Informationstechnik 14.3%
2.6) What is your semester?

<table>
<thead>
<tr>
<th>Semester</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>42.9%</td>
</tr>
<tr>
<td>3-4</td>
<td>42.9%</td>
</tr>
<tr>
<td>5-6</td>
<td>0%</td>
</tr>
<tr>
<td>7-8</td>
<td>14.3%</td>
</tr>
<tr>
<td>&gt;8</td>
<td>0%</td>
</tr>
</tbody>
</table>

3. Questions Relating to the Course

3.1) How much do you enjoy attending this course?

<table>
<thead>
<tr>
<th>Rating</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very much</td>
<td>83.3%</td>
</tr>
<tr>
<td>1</td>
<td>16.7%</td>
</tr>
<tr>
<td>2</td>
<td>0%</td>
</tr>
<tr>
<td>3</td>
<td>0%</td>
</tr>
<tr>
<td>4</td>
<td>0%</td>
</tr>
<tr>
<td>5</td>
<td>0%</td>
</tr>
</tbody>
</table>

3.2) Why do you attend this course? (Multiple choice)

- Compulsory / optional compulsory course: 71.4%
- Personal interest: 85.7%
- For repetition / specialization: 42.9%
- Studium Generale: 14.3%

3.3) My commitment to this course is reflected by: (Multiple choice)

- Active contributions: 0%
- Regular preparation/follow up: 85.7%
- Study the recommended literature: 14.3%
- Working through given working material: 85.7%
- Internet research: 42.9%

3.4) How many hours per week have you put, on average, into your preparation and follow-up for this course, so far?

<table>
<thead>
<tr>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>14.3%</td>
</tr>
<tr>
<td>&lt;1 h</td>
<td>0%</td>
</tr>
<tr>
<td>1-2 h</td>
<td>0%</td>
</tr>
<tr>
<td>2-3 h</td>
<td>0%</td>
</tr>
<tr>
<td>3-4 h</td>
<td>14.3%</td>
</tr>
<tr>
<td>4-5 h</td>
<td>28.6%</td>
</tr>
<tr>
<td>5-6 h</td>
<td>14.3%</td>
</tr>
<tr>
<td>6-7 h</td>
<td>14.3%</td>
</tr>
<tr>
<td>7 h and more</td>
<td>14.3%</td>
</tr>
</tbody>
</table>

3.5) How large is the amount of work for this course?

<table>
<thead>
<tr>
<th>Amount</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very small</td>
<td>0%</td>
</tr>
<tr>
<td>1</td>
<td>0%</td>
</tr>
<tr>
<td>2</td>
<td>28.6%</td>
</tr>
<tr>
<td>3</td>
<td>28.6%</td>
</tr>
<tr>
<td>4</td>
<td>57.1%</td>
</tr>
<tr>
<td>5</td>
<td>14.3%</td>
</tr>
<tr>
<td>Very large</td>
<td>0%</td>
</tr>
</tbody>
</table>

3.6) The amount of work required for this course is...

<table>
<thead>
<tr>
<th>Amount</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adequate</td>
<td>28.6%</td>
</tr>
<tr>
<td>28.6%</td>
<td>0%</td>
</tr>
<tr>
<td>0%</td>
<td>42.9%</td>
</tr>
<tr>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Inadequate</td>
<td>28.6%</td>
</tr>
</tbody>
</table>
3.7) How is the course structured?

3.8) Do you understand the importance of the course contents to your further studies?

3.9) Coordination of the contents of this course with that of other courses in my curriculum is...

3.10) I learn a lot during this course.

3.11) I got along well with the digital form of the course.

3.12) The course was structured clearly.

4. Questions Relating to Digital Teaching

4.1) Which digital teaching and learning offers and tools were offered for this course? (Check as many as apply)

- Course materials (e.g. ILIAS, website, etc.) 100%
- Audio/video recordings 100%
- Live courses 42.9%
- Cooperation and exchange with other students (e.g. live group work) 28.6%
- Interactive editing of documents 14.3%
- Chat function 28.6%
- Others 0%

4.2) Which digital platforms were used for this course?

- ILIAS 100%
- MS Teams 0%
- Zoom 85.7%
- Website 0%
- Other Online-Tools 42.9%
- Others 14.3%

4.5) When downloading and/or opening the digital learning materials or tools, no problems occurred.
4.7) How helpful was the supply of course materials?

Very helpful: 100%
Not helpful at all: 0%

4.8) How helpful was the supply of audio/video recordings?

Very helpful: 100%
Not helpful at all: 0%

4.9) How helpful were the live courses?

Very helpful: 100%
Not helpful at all: 0%

4.10) How helpful were cooperation and exchange with other students?

Very helpful: 100%
Not helpful at all: 0%

4.11) How helpful was the interactive editing of documents?

Very helpful: 100%
Not helpful at all: 0%

4.12) How helpful was the chat function?

Very helpful: 100%
Not helpful at all: 0%

4.14) In my opinion, the online course adequately replaced the on-campus course.

Is absolutely true: 100%
Is absolutely wrong: 0%

5. Questions Relating to the Lecturer

5.1) Does the lecturer appear dedicated and motivated during the course?

Very strongly: 100%
Not at all: 0%

5.2) Is the lecturer responsive to questions and concerns of the students?

Very strongly: 100%
Not at all: 0%

5.3) The lecturer succeeded in structuring the course such that the motivation to continuously attend it was high.

Is absolutely true: 100%
Is absolutely wrong: 0%

5.4) The lecturer supported learning in the digital setting well.

Is absolutely true: 71.4%
Is absolutely wrong: 0%

5.5) The lecturer uses the digital media in a very competent way.

Is absolutely true: 100%
Is absolutely wrong: 0%

6. Questions Concerning the Overall Evaluation of the Course
6.1) Please rate the course as a whole.

Very good: 85.7%
Very good: 14.3%
Other grades: 0%
Overall: 85.7%

n=7
ave=1.14
dev=0.38
3. Questions Relating to the Course

3.1) How much do you enjoy attending this course? Very much | Not at all  
| n=6  | av.=1,17  

3.5) How large is the amount of work for this course? Very small | Very large  
| n=7  | av.=3,86  

3.8) The amount of work required for this course is Adequate | Inadequate  
| n=7  | av.=2,57  

3.7) How is the course structured? Very well | Very badly  
| n=7  | av.=1,43  

3.9) Do you understand the importance of the course contents to your further studies? Very clearly | Not at all  
| n=7  | av.=1,14  

3.10) Coordination of the contents of this course with that of other courses in my curriculum is... Very good | Very bad  
| n=7  | av.=1,43  

3.11) I learn a lot during this course. Completely true | Not at all  
| n=7  | av.=1,14  

3.12) I got along well with the digital form of the course. Is absolutely true | Is absolutely wrong  
| n=7  | av.=1,29  

4. Questions Relating to Digital Teaching

4.5) When downloading and/or opening the digital learning materials or tools, no problems occurred. Is absolutely true | Is absolutely wrong  
| n=7  | av.=1,00  

4.7) How helpful was the supply of course materials? Very helpful | Not helpful at all  
| n=6  | av.=1,00  

4.8) How helpful was the supply of audio/video recordings? Very helpful | Not helpful at all  
| n=7  | av.=1,00  

4.9) How helpful were the live courses? Very helpful | Not helpful at all  
| n=1  | av.=1,00  

4.10) How helpful were cooperation and exchange with other students? Very helpful | Not helpful at all  
| n=1  | av.=1,00  

4.11) How helpful was the interactive editing of documents? Very helpful | Not helpful at all  
| n=1  | av.=2,00  

4.12) How helpful was the chat function? Very helpful | Not helpful at all  
| n=2  | av.=1,00  

4.13) How helpful were the other digital teaching and learning offers and tools used? (*). Very helpful | Not helpful at all  
| n=2  | av.=1,00  

4.14) In my opinion, the online course adequately replaced the on-campus course. Is absolutely true | Is absolutely wrong  
| n=7  | av.=2,14  

5. Questions Relating to the Lecturer

5.1) Does the lecturer appear dedicated and motivated during the course? Very strongly | Not at all  
| n=7  | av.=1,00  

5.2) Is the lecturer responsive to questions and concerns of the students? Very strongly | Not at all  
| n=7  | av.=1,00  

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5.3) The lecturer succeeded in structuring the course such that the motivation to continuously attend it was high.  
Is absolutely true | Is absolutely wrong  
n=7  av.=1.00

5.4) The lecturer supported learning in the digital setting well.  
Is absolutely true | Is absolutely wrong  
n=7  av.=1.29

5.5) The lecturer uses the digital media in a very competent way.  
Is absolutely true | Is absolutely wrong  
n=7  av.=1.00

6. Questions Concerning the Overall Evaluation of the Course

6.1) Please rate the course as a whole.  
Very good | Very bad  
n=7  av.=1.14
2. Questions Relating to Studies

3. Questions Relating to the Course

3.13) The following support would have been helpful:
- A clear upload schedule would have been nice
- recordings of the exercise session!! I had two live sessions at the same time and could not always attend. Being able to use the microphone is worth nothing compared to having recordings.

4. Questions Relating to Digital Teaching

4.14) Which other digital platforms were used for this course?
- Videos on Youtube

4.15) Which aspects might have been improved, which aspects did you miss?
- recordings of the exercise sessions

4.16) Do you have further remarks relating to the digital teaching and learning offers and tools?
- Love the high-quality videos on YouTube, plus points for being openly available. Bonus for topic wise 20min video split instead of 90-min blocks

6. Questions Concerning the Overall Evaluation of the Course

6.2) In particular, I liked:
- Good explanations and mostly well divided and digestible lecture recordings
- very well structured course
- good mix between presentation of theory and applications
- direct relation between lecture content and programming exercises

6.3) In particular, I did not like:
- Eine kleine organisatorische Anmerkung: Das Modul ist nicht unter den Modulen für das KI-Profil im M.Sc. Informatik gelistet, würde dort aber meiner Meinung nach passen.
- Few preperation materials for an exam which has no materials from previous years