

## Agenda

Faculty Council of the Faculty of Science, Forestry and  
Technology  
Meeting No 5/2024  
Meeting date 15 May 2024

1 (21)

**Date and time** 15 May 2024, 13.00-13.39

**Place** Teams

| Participants         | Role                       | Present at the items |
|----------------------|----------------------------|----------------------|
| Members              |                            |                      |
| Lehtinen Kari        | Dean, Chair                | 1-12                 |
| Hauta-Kasari Markku  | 1st Vice Dean, Vice Chair  | 1-12                 |
| Kukkonen Jussi       | 2nd Vice Dean              |                      |
| Hujala Teppo         | Professor, member          | 1-12                 |
| Tuittila Eeva-Stiina | Professor, deputy member   |                      |
| Lehto Vesa-Pekka     | Professor, member          | 1-12                 |
| Kuittinen Markku     | Professor, deputy member   |                      |
| Jänis Janne          | Professor, member          |                      |
| Pumpanen Jukka       | Professor, deputy member   |                      |
| Berninger Frank      | Professor, member          | 1-12                 |
| Tedre Matti          | Professor, deputy member   |                      |
| Miettinen Pauli      | Professor, member          | 2-12                 |
| Tuomela Jukka        | Professor, deputy member   |                      |
| Tanska Petri         | Other staff, member        | 1-12                 |
| Haapala Antti        | Other staff, deputy member |                      |
| Mononen Maini        | Other staff, member        |                      |
| Turunen Mikael       | Other staff, deputy member |                      |
| Virranto Tarja       | Other staff, member        | 1-6 and 10-12        |

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|--------------------------|--|---------------|
| Kopra Juho               | Other staff, deputy member                 |               |
| Pohjoismäki Jaakko       | Other staff, member                        | 1-12          |
| Asikainen Mervi          | Other staff, deputy member                 |               |
| Vainikainen Hanne        | Other staff, member                        | 1-6 and 10-12 |
| Kumlin Timo              | Other staff, deputy member                 |               |
| Merruntaus Kati          | Student, member                            |               |
| Ahtonen Tiina            | Student, deputy member                     | 1-6 and 10-12 |
| Palkovuori Teemu         | Student, member                            | 1-6 and 10-12 |
| Törö Teemu               | Student, deputy member                     |               |
| Partanen Silja           | Student, member                            | 1-6 and 10-12 |
| Miettinen Mikko          | Student, deputy member                     | 1-6 and 10-12 |
| Jankova Simona           | Student, member                            | 1-6 and 10-12 |
| Rautiainen Kaisa         | Student, deputy member                     |               |
| Helvelahti Tomi          | Student, member                            | 1-6 and 10-12 |
| Sheng Li                 | Student, deputy member                     | 1-6 and 10-12 |
| Hirvonen Arja            | Executive Head of Administration, Preparer |               |
| Other preparers          |  |               |
| Laitinen Kaisa           | Head of Training                           | 1-12          |
| Merimaa-Piirainen Maarit | Head of Student Services, Secretary        | 1-12          |

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### Items to be discussed at the meeting

| Number | Title  | Page |
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| 1      | Opening of the meeting   | 4    |
| 2      | Legitimacy and presence of a quorum  | 5    |
| 3      | Discontinuation of Applied Physics education,<br>commencement of Technical Physics education and<br>transitional rules   | 6    |
| 4      | Launch of a new course in Technical Physics, taught in<br>English, for the academic year 2024-2025   | 9    |
| 5      | Approval of the curriculum and degree requirements for<br>the doctoral programme in Science, Forestry and<br>Technology for the period 1 August 2024 to 31 July 2025 | 10   |
| 6      | Approval of the student admission criteria for the<br>doctoral programme in Science, Forestry and Technology<br>for the period 1 August 2024 to 31 July 2025         | 12   |
| 7      | Grading MSc Eero Koponen's doctoral dissertation in the<br>field of Technical Physics  | 13   |
| 8      | Grading MSc Tomi Saleva's doctoral dissertation in the<br>field of Mathematics   | 15   |
| 9      | Grading MSc Hasan Bin Sohail's doctoral dissertation in<br>the field of Environmental Science  | 17   |
| 10     | For information  | 19   |
| 11     | Closing of the meeting   | 20   |
| 12     | Translation of the agenda/minutes  | 21   |

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§ 1

**Opening of the meeting**

The chair will opened the meeting at 13.00.

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## § 2

### **Legitimacy and presence of a quorum**

In accordance with the UEF University Regulations, meeting notices of a multi-member administrative organ must be sent at least seven days prior to the meeting, unless the administrative organ has decided otherwise.

The meeting notice was sent on 8 May 2024.

According to the UEF University Regulations, multi-member organs of the university have a quorum when at least half of the members, including the chair, are present. By the decision of the chair, a multi-member administrative organ can hold its meeting by email or, either fully or in part, via a video conference, telephone, or some other remote participation means. The chair has decided that the meeting be organised via Teams.

**Motion**      The meeting is deemed lawful and quorate. The agenda is approved.

**Decision**     As proposed. The order of items on the agenda was changed so that the items For information, Closing of the meeting and Translation of the agenda/minutes were placed after the supplementary item.

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Record entry No 2316/03.00.00/2024

Prepared by Maarit Merimaa-Piirainen and Helka Äyräväinen

§ 3

### **Discontinuation of Applied Physics education, commencement of Technical Physics education and transitional rules**

The Department of Technical Physics has proposed that the Faculty Council approves the discontinuation of Applied Physics education. No students have been admitted to the programme to be discontinued after 1 August 2023, meaning that the transitional periods for the discontinuation have been calculated, in accordance with the university's instructions, from the moment the most recent students started in the degree programmes.

The discontinuation applies to the following degree programmes:

- Bachelor of Science + Master of Arts, Applied Physics (3 years + 2 years)
- Master of Arts, Applied Physics (2 years)
- Medical Physics, Master of Science (2 years) (pursued degree: Master of Arts)

### **Transitional provision**

Students whose right to study for a Bachelor of Science + Master of Arts, Applied Physics, degree entered into force on or before 1 August 2022 may complete the Bachelor of Science and Master of Arts degrees until 31 July 2029.

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Students whose right to study in the aforementioned Master's degree programmes entered into force on or before 1 August 2022 may complete the Master of Arts degrees until 31 July 2026.

The right to study in the discontinued degree programmes ends at the end of the transitional period.

The Department of Technical Physics trains Bachelors of Science (Technology) and Masters of Science (Technology). Since 1 August 2023, the department has provided training in the following degree programmes in the field of technology:

- Bachelor of Science (Technology) + Master on Science (Technology), Technical Physics (3 years + 2 years)
- Master on Science (Technology), Technical physics (2 years)
- Medical Physics, Master of Science (Technology) (2 years) (pursued degree: Master of Science (Technology))

The Faculty Council has confirmed the curricula and degree requirements for the above degree programmes in technology. According to section 6 of the Education Regulations of the University of Eastern Finland, the Faculty Council will decide, within the scope of the faculty's educational responsibility, on the launch of a new major subject and shutting down of an existing one.

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Students who study Applied Physics as a major or minor subject and whose right to study entered into force on or before 1 August 2022 may substitute the courses removed from the curricula in accordance with the tables contained in the Appendices.

## **Motion**

1. The Faculty Council states that Applied Physics education was discontinued on 1 August 2023.
2. The Faculty Council approves the transitional provisions for basic, intermediate and advanced studies in Physics and Mathematics of the degree programme in Technical Physics.
3. The Faculty Council confirms the degree programmes for the Master's degree in Technical Physics.

## **Decision**

1. As proposed.
2. As proposed.
3. As proposed.

## Appendices

Appendix 1

Substitution tables for applied physics courses



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Record entry No 2316/03.00.00/2024

Prepared by Maarit Merimaa-Piirainen

§ 4

### **Launch of a new course in Technical Physics, taught in English, for the academic year 2024–2025**

According to section 9 of the UEF University Regulations, the Faculty Council shall decide, among others, on curricula. According to section 18 of the Education Regulations of the University of Eastern Finland, the curriculum of each degree programme must indicate, among others, the structure (including the courses and their scope) and requirements of the degree, and the desired learning outcomes, contents, evaluation methods and modes of teaching of the degree and its parts.

**Motion** The Faculty Council decides on the curriculum of the new “Applied Digital Measurement Signal Processing” course in Technical Physics for the academic year 2024–2025 and the syllabus for the semester 2024, as set out in the appendix.

**Decision** As proposed.

#### Appendices

|            |  |
|------------|--|
| Appendix 2 | Applied Digital Measurement Signal Processing course description |
|------------|--|

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Record entry No 628/03.00.01/2024

Prepared by Kaisa Laitinen

§ 5

### **Approval of the curriculum and degree requirements for the doctoral programme in Science, Forestry and Technology for the period 1 August 2024 to 31 July 2025**

According to section 9 of the University Regulations of the University of Eastern Finland, the Faculty Council will make decisions concerning curricula and degree requirements.

**Motion** The Faculty Council confirms the curriculum and degree requirements for the doctoral programme in Science, Forestry and Technology (LUMETO) as set out in the appendices.

The Dean is authorised to confirm any technical changes.

**Decision** As proposed.

#### Appendices

|            |  |
|------------|--|
| Appendix 3 | LUMETO Curriculum and degree requirements 2024                         |
| Appendix 4 | LUMETO Writing a research funding application,<br>curriculum 2024–2025 |
| Appendix 5 | Research seminar, Physics and Mathematics,<br>curriculum 2024–2025     |

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|-------------|---|
| Appendix 6  | Research seminar, Chemistry, curriculum 2024–2025                                 |
| Appendix 7  | Research seminar, Forestry, curriculum 2024–2025                                  |
| Appendix 8  | Research seminar, Forestry, curriculum 2024–2025, in English                      |
| Appendix 9  | Research seminar, Technical Physics, curriculum 2024–2025                         |
| Appendix 10 | Research seminar, Technical Physics, curriculum 2024–2025, in English             |
| Appendix 11 | Research seminar, Computer Science, curriculum 2024–2025                          |
| Appendix 12 | Research seminar, Environmental and Biosciences, curriculum 2024–2025, in English |

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Record entry 3339/03.01.00/2023

Prepared by Kaisa Laitinen

§ 6

### **Approval of the student admission criteria for the doctoral programme in Science, Forestry and Technology for the period 1 August 2024 to 31 July 2025**

According to section 9 of the University Regulations of the University of Eastern Finland, the Faculty Council will make decisions concerning student admission criteria.

**Motion** The Faculty Council decides on the student admission criteria for the doctoral programme in Science, Forestry and Technology (LUMETO) as set out in the appendix.

**Decision** As proposed.

#### Appendices

Appendix 13 LUMETO admission criteria

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Dnro 86/03.04.09/2024

Prepared by Kaisa Laitinen

§ 7

### **Grading MSc Eero Koponen's doctoral dissertation in the field of Technical Physics**

According to section 9 of the UEF University Regulations, the Faculty Council grades doctoral dissertations. According to Section 18 of the standing orders of the Faculty of Science, Forestry and Technology on degrees and studies, doctoral dissertations are graded on the scale pass – pass with distinction.

MSc Eero Koponen's doctoral dissertation and study [Background-oriented schlieren imaging for measuring ultrasound fields](#) was examined publicly on 26 April 2024. The opponent, Professor Lauri Oksanen (Department of Mathematics and Statistics, University of Helsinki) is in favour of the dissertation being approved as a thesis for a doctoral degree in Technology and proposes the grade Pass.

According to section 44 of the Universities Act (24.7.2009/558), before a doctoral dissertation is graded, the author must be given an opportunity to submit his or her response to the preliminary examiner's, the examiner's or the opponent's statement. The doctoral candidate has no comments on the doctoral statement, which is enclosed with this agenda item as an appendix.

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According to section 29 of the Universities Act (24.7.2009/558), a study attainment may be assessed only by those members or deputy members of a multi-member administrative body who have a degree or completed study attainments of an equivalent level or who have been appointed professors.

**Motion** Based on the statement, the Faculty Council grades MSc Eero Koponen's doctoral dissertation as Pass.

**Decision** As proposed.

**Appendices**

Appendix 14 Statement of opponent Lauri Oksanen

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Dnro 86/03.04.09/2024

Prepared by Kaisa Laitinen

§ 8

### **Grading MSc Tomi Saleva's doctoral dissertation in the field of Mathematics**

According to section 9 of the UEF University Regulations, the Faculty Council grades doctoral dissertations. According to Section 18 of the standing orders of the Faculty of Science, Forestry and Technology on degrees and studies, doctoral dissertations are graded on the scale pass – pass with distinction.

MSc Tomi Saleva's doctoral dissertation and study [Explicit Lagrangian solutions to the Euler equations](#) was examined publicly on 19 April 2024. The opponent, Professor Bijan Mohammadi (Department of Mathematics, University of Montpellier, Ranska) is in favour of the dissertation being approved as a thesis for a doctoral degree in Philosophy and proposes the grade Pass with distinction. The preliminary examiners of the dissertation, Professor Sampsa Pursiainen (unit of Computing Sciences (CS), University of Tampere) and Senior Lecturer David Henry (School of Mathematical Sciences, University College Cork, Ireland) agree with the grade proposed by the opponent.

According to section 44 of the Universities Act (24.7.2009/558), before a doctoral dissertation is graded, the author must be given an opportunity to submit his or her response to the preliminary examiner's, the examiner's or the opponent's statement. The doctoral candidate has no

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comments on the statements of the opponent and the preliminary examiners, which are enclosed with this agenda item as appendices.

According to section 29 of the Universities Act (24.7.2009/558), a study attainment may be assessed only by those members or deputy members of a multi-member administrative body who have a degree or completed study attainments of an equivalent level or who have been appointed professors.

**Motion** Based on the statements, the Faculty Council grades MSc Tomi Saleva's dissertation as Pass with distinction.

**Decision** As proposed.

### Appendices

- |             |   |
|-------------|---|
| Appendix 15 | Statement by opponent Bijan Mohammadi   |
| Appendix 16 | The opinion of preliminary examiner Sampsa Pursiainen on the proposed grade Pass with distinction |
| Appendix 17 | The opinion of preliminary examiner David Henry on the proposed grade Pass with distinction       |



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Dnro 86/03.04.09/2024

Prepared by Kaisa Laitinen

§ 9

### **Grading MSc Hasan Bin Sohail's doctoral dissertation in the field of Environmental Science**

According to section 9 of the UEF University Regulations, the Faculty Council grades doctoral dissertations. According to Section 18 of the standing orders of the Faculty of Science, Forestry and Technology on degrees and studies, doctoral dissertations are graded on the scale pass – pass with distinction.

MSc Hasan Bin Sohail's doctoral dissertation and study [Epidemiological studies on the adverse health effects of non-optimum ambient temperatures](#) was examined publicly on 6 May 2024. The opponent, Professor Janine Wichmann (School of Health Systems and Public Health, University of Pretoria, South Africa) is in favour of the dissertation being approved as a thesis for a doctoral degree in Philosophy and proposes the grade Pass.

According to section 44 of the Universities Act (24.7.2009/558), before a doctoral dissertation is graded, the author must be given an opportunity to submit his or her response to the preliminary examiner's, the examiner's or the opponent's statement. The doctoral candidate has no comments on the doctoral statement, which is enclosed with this agenda item as an appendix.

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According to section 29 of the Universities Act (24.7.2009/558), a study attainment may be assessed only by those members or deputy members of a multi-member administrative body who have a degree or completed study attainments of an equivalent level or who have been appointed professors.

**Motion** Based on the statement, the Faculty Council grades MSc Hasan Bin Sohail's doctoral dissertation as Pass.

**Decision** As proposed.

**Appendices**

Appendix 18 Statement by opponent Janine Wichmann

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### For information

Statistics on the faculty's Bachelor's, Master's and Doctoral degrees on 7  
May 2024 (Appendix)

The doctoral dissertation overview of the faculty dated 8 May 2024;  
graduates in green, those with permission to defend their dissertation in a  
public examination in yellow, and those who have started their  
dissertation in blue (appendix)

Topical faculty matters.

**Motion** Marked for information.

**Decision** As proposed.

### Appendices

Appendix 18 Degree Statistics 7 May 2024

Appendix 19 Doctoral dissertation overview 8 May 2024



UNIVERSITY OF  
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### **Closing of the meeting**

The chair will closed the meeting at 13.39.

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§ 12

**Translation of the agenda/minutes**

The English translation of the agenda/minutes of the meeting is attached  
to the agenda item.