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# LV-Info-Sheet

## Design of Electrical Machines and Actuators with Numerical Field Calculation



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT



Institut für  
Elektrische  
Energiewandlung

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18-bi-2110-se

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## 1 Dates

SoSe 2022	
Seminar lecture	Tuesdays, 15:20 – 17:55, S3   10/219 first date: 12.4.2022 last date: 12.7.2022
Written report deadline	individual appointment
Oral presentation	individual appointment
Oral exam	individual appointment

All dates are subject to change without prior noticing. Changes will be published in this document.

## 2 Enrolment

Enrol to the TUCaN-course for the seminary (18-bi-2110-se). You get automatically access to the Moodle-course. If the automatic enrolment to the Moodle course fails, contact the assistant (see 6).

## 3 Documents

All documents are available on the website of the institute under „Design of Electrical Machines and Actuators with Numerical Field Calculation“ and in the Moodle course of the current semester. The last update of the documents will be a week before the start of the course.

The documents consist of:

1. Textbook with exercises
2. Lecture slides
3. Video access

## 4 Exam Regulations and Exam Registration

Register to the exam via TUCaN in the first week of the lecture.

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## 4.1 Seminary Activity (20% part of final mark)

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There will be six exercises (program examples for the below mentioned finite element software), based on digital files, that will be evaluated during the semester each accounting for 20% / 6 of the final mark.

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## 4.2 Project Work (30% part of final mark)

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You will work on a project of electromagnetic and thermal machine design with finite element programs (FEMAG 2D, FEMM 2D, ANSYS 2D & 3D) within a small group of typically two persons. The results are evaluated by a written report (20% of the final mark) and an oral presentation (10% of the final mark).

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## 4.3 Oral Exam (50% part of final mark)

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A final oral exam will account for 50% of the final mark.

## 5 Contact Persons

Dr.-Ing. Bogdan Funieru  
Simulia – Dassault Systems

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Room S3|10/217  
Tel. 06151 16-24189

E-Mail: [nerd@ew.tu-darmstadt.de](mailto:nerd@ew.tu-darmstadt.de)  
Consulting hour: Tuesday, 09:30 – 10:00

## 6 Responsibility

Prof. Binder is responsible for the module and this information sheet.