

Welcome Meeting

Monday, October 12th 2026, 10:00
room D.10.08

You will get useful information
and answers to probable questions

I. Introduction

Prof. Dr. Francesco Knechtli

Head of CSiS Examination Committee, Dean of the School

Room: D.10.24

Phone.: 0202 439 2630

E-mail: knechtli@uni-wuppertal.de

International Office of the University of Wuppertal

Welcome Services International, InTouch programme

- **Ms Daria Isaeva**

Room: O.06.10

Phone.: 0202 439 2406

E-mail: isaeva@uni-wuppertal.de

International Office of the School and CSiS Office

Administration of the programme

- **Mr Dmytro Potikha**

Room: F.10.05

Phone.: 0202 439 2594

E-mail: potikha@uni-wuppertal.de

Student Body of Physics

Contact in case of general student issues:

- **Mr Michel Krause**

Room: G.11.43

Phone: (0202) 439 3538

E-mail: fachschafphysik@uni-wuppertal.de

Website: <https://www.physik-fachschafft.uni-wuppertal.de/de/>

If you seek help from Student Body, you can join their discord: <https://discord.gg/y4yVdkWgE> follow their Instagram Channel: @fs_physik_buw You can come for the personal consultation on Wednesday at 10:00 in G.11.43.

II. Topics Relevant to the Degree Programme

Some useful hints

- Consider attending the classes as mandatory.
- Be on time and communicate responsibly and respectfully.
- Study continuously throughout the semester.
- Check StudiLöwe for Moodle links.
- Fill in the form “CSiS statement” <https://www.csis.uni-wuppertal.de/de/examinations/forms-for-students/> before the first exam and submit the form at the CSiS office.
- Read the examination regulations which are in English on the [web page](#).
 - The requirements for getting the topic of the master thesis are 70 credit points including the conclusion of the module examinations CSim1, CSim3 and of at least one module in the chosen specialization.
 - Students of the specialization CFM must have completed the module examinations CFM1.1 and CFM1.2.
- Do not remove the facilities of the computer labs.

Modules on the 1st Semester

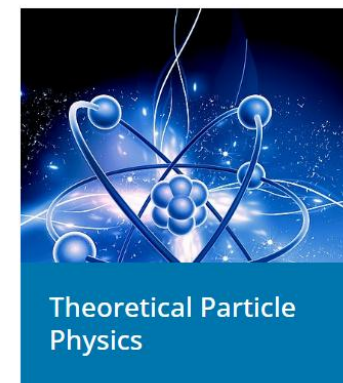
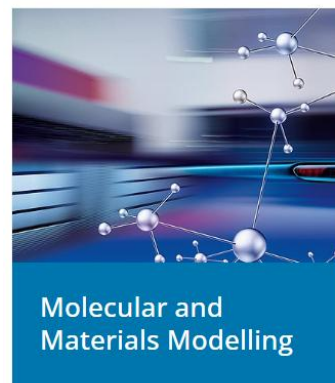
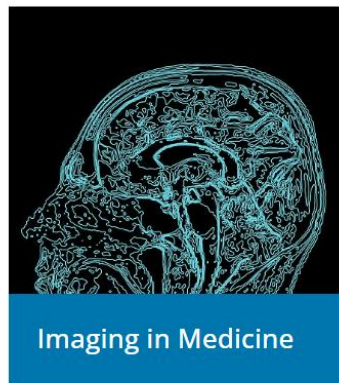
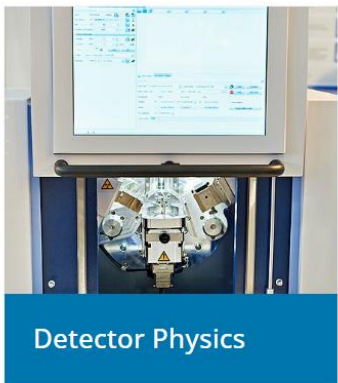
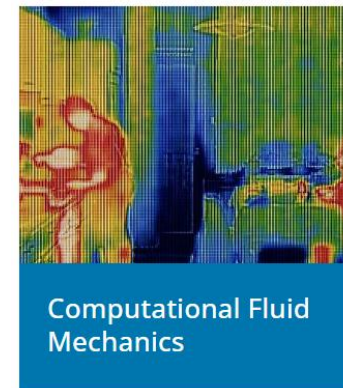
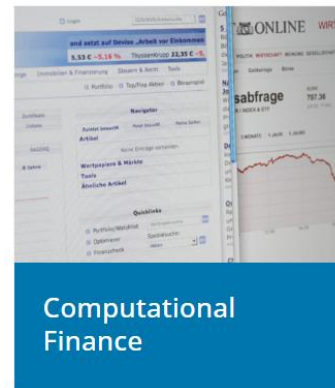
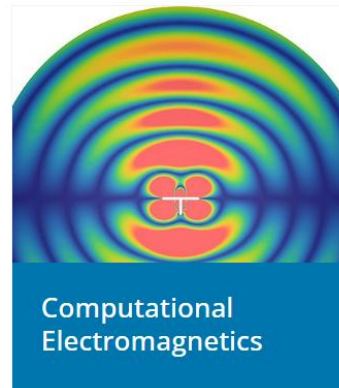
- **Computer Simulation (CSim1):**
 - a) Block Course on Mathematical Foundations
 - b) Lab course 1
 - c) Introduction to Computer Simulation

- **Computer Science (CS1):**
 - a) Modern Programming
 - +
 - b) Virtualization 1 **OR** c) Introduction to High Performance Computing (HPC)

- **Numerical Methods (NM1):**
 - a) Numerical Analysis and Simulation I: ODEs (NM1)
 - OR**
 - b) Advanced Numerics (NM1a)
 - OR**
 - c) Mathematical Machine Learning (MathML)

Specializations

- Start in the 2nd semester
- More info at the end of the 1st semester and under appendix



Exams of the 1st Semester

Module examinations:

- **CSim1** written, can be repeated twice at the utmost; registration for exam is necessary; successful passing of the Block Course exam and 50 % exercises of the “Introduction to Computer Simulation”, as well as upload of at least 10 solutions for LabCourse I, are required for admission to the exam:

Block Course exam dates:

03.11.2026 + repetition 01.12.2026, 10:00 – 11:00, room: L.11.22/27
Please come 15 minutes earlier and bring a pen and one page (single sided, A4) of hand-written notes.

CSim1 final module e-exam dates:

24.02.2027 11:00 – 14:00
room: T.09.01
+ repetition 19.03.2027 08:00 – 11:00
room: T.09.20/23
*Please come 15 minutes earlier. Up to 2 pages of hand-written notes (double sided, A4).
The exam can only be repeated twice (maximum of three attempts)*

- **CS1** written or oral; form announced at the beginning
- **NM1** oral; ungraded weekly exercises required for admission to the exam
or
- **NM1a** assessment folder; content, deadline and form of individual assignments will be announced at the beginning
or
- **MathML** content, deadline and form of individual assignments will be announced at the beginning

CSiS Timetable, 1st semester

Lecture period: 12.10.2026 – 05.02.2027



TIME	MONDAY	TUESDAY		WEDNESDAY	THURSDAY		FRIDAY	
10:00-11:00	Introduction to Computer Simulation (Lecture, CSim1a) 10:15 – 11:45 D.10.08			Introduction to Computer Simulation (Lab Course 1, CSim1a – Lecture Part) 10:15 – 11:45 F.13.15	Advanced Numerics (Lecture, NM1a) 10:15 – 11:45 G.10.05 (Hörsaal 07) Prof. Dr. Matthias Ehrhardt	Numerical Analysis and Simulation 1: ODEs (Lecture, NM1) 10:15 – 11:45 G.10.07 (Hörsaal 05) Prof. Dr. Michael Günther	Numerical Analysis and Simulation 1: ODEs (Exercises, NM1) 10:00 – 12:00 G.13.18 Tutor: Mr. Kevin Schäfers	Advanced Numerics (Exercises, NM1a) 10:15 – 11:45 G.10.06 (Hörsaal 06) Tutors: Mr. Daniel Walsken, Mr. Erwan Chartier
11:00-12:00	Prof. Dr. Francesco Knechtli			Prof. Dr. Francesco Knechtli				
12:00-13:00	Modern Programming (Lecture, CS1a) 12:15 – 13:45 G.14.34	Advanced Numerics (Lecture, NM1a) 12:15 – 13:45 L.09.21 (Hörsaal 13) Prof. Dr. Matthias Ehrhardt	Numerical Analysis and Simulation 1: ODEs (Lecture, NM1) 12:15 – 13:45 G.10.03 (Hörsaal 08) Prof. Dr. Michael Günther	Modern Programming (Exercises, CS1a) 12:15 – 13:45 I.14.75 / G.16.15 Dr. Holger Arndt	Introduction to Computer Simulation (Exercises, CSim1a) 12:30 – 14:00, D.10.08 Tutors: Ms. Sara Awwad, M.Sc., Mr. Chathura Hettiarachchi		Introduction to High Performance Computing (Lecture, CS1c) 12:15 – 13:45 D.10.08 Dr. Chik Him Wong	
13:00-14:00	Dr. Holger Arndt							
14:00-15:00	Mathematical Machine Learning (Lecture, MathML) 14:15 – 15:45 G.10.03 (Hörsaal 08) Prof. Dr. Sebastian Kassing	Virtualization I (Lecture, CS1b) 14:15 – 15:45 O.06.06 (Hörsaal 16) Dr. Torsten Harenberg, Dr. Marisa Sandhoff		Mathematical Machine Learning (Lecture, MathML) 14:15 – 15:45 G.10.05 (Hörsaal 07) Prof. Dr. Sebastian Kassing	Introduction to Computer Simulation (Lab Course 1, CSim1c – Exercise part) 14:15 – 15:45 D.11.01 (Compass-Labor) Dr. Joshua Crawford, Tutor: Mr. Mohammed Ibraheem			
15:00-16:00								
16:00-17:00				Help Room for Programming 16:00 – 18:00 D.11.01 (Compass- Labor) Tutor: Mr. Mohammed Ibraheem	Mathematical Machine Learning (Exercises, MathML) 16:15 – 17:45 G.10.06 (Hörsaal 06) Tutor: Mr. Aris Besas			
17:00-18:00								
18:00-21:00		“German in the Evening” Course, A1 Level (18:00-21:00)			“German in the Evening” Course, A1 Level (18:00-21:00)			

Please register for all courses on Moodle: <https://moodle.uni-wuppertal.de/>
CEM students: contact Mr. Norman Haußmann by email: haussmann@uni-wuppertal.de

Moodle Registration for Classes



OBLIGATORY COURSES from module reference book:

<https://www.csis.uni-wuppertal.de/en/program-curriculum/module-reference-book/>

Obligatory Courses/ Module Name:	Course Name:	Code in MHB	Module Component: (codes in StudiLöwe)	Moodle Link
Computer Simulation 1	Block Course on Mathematical Foundations	CSim1-b	CSISMCSim1bV	https://moodle.uni-wuppertal.de/course/view.php?id=59107
Computer Simulation 1	Introduction to Computer Simulation: Lectures, Exercises, Lab Course I	CSim1-a, CSim1-c	CSISMCSim1aV and CSISMCSim1aU and CSISMCSim1cV	https://moodle.uni-wuppertal.de/enrol/index.php?id=59092 https://moodle.uni-wuppertal.de/enrol/index.php?id=59108
Computer Simulation 1	Help Room Course	—	CSISMhelpU	https://moodle.uni-wuppertal.de/enrol/index.php?id=59448
Computer Science 1	Modern Programming	CS1-a	MAT516000 and MAT516001 and MAT516002	https://moodle.uni-wuppertal.de/enrol/index.php?id=59044
Computer Science 1	Virtualization I or Introduction to High Performance Computing (HPC)	CS1-b or CS1-c	CSISMCS1bV or CSISMCS1c	https://moodle.uni-wuppertal.de/enrol/index.php?id=59106 or https://moodle.uni-wuppertal.de/enrol/index.php?id=59109
Numerical Methods 1	Numerical Analysis and Simulation I: ODEs or Advanced Numerics or Mathematical Machine Learning	NM1 or NM1a or MathML	MAT032000 and MAT032001 or NM1a or MathML	https://moodle.uni-wuppertal.de/enrol/index.php?id=62265 or https://moodle.uni-wuppertal.de/course/view.php?id=62268 or https://moodle.uni-wuppertal.de/enrol/index.php?id=61546

Computer accounts

Physics: your account will be created in the CompassLab.

Mathematics: Instructions will be given in the lecture of Modern Programming by Dr. Holger Arndt.

MATLAB: To get a MATLAB license register with your ZIM account at:

<https://de.mathworks.com/academia/tah-portal/bergische-universitat-wuppertal-30960999.html>

After ex-matriculation all accounts will be deleted.

Help on Programming Skills

“Help Room for Programming” by CSiS study programme as of 12.10.2026

Moodle enrolment: <https://moodle.uni-wuppertal.de/enrol/index.php?id=59448>

Tutor: Mr. Mohammed Ibraheem, M.Sc. Student
mohammed.ibraheem@uni-wuppertal.de

Contact Details



CSiS Coordinator

- **Prof. Dr. Francesco Knechtli**
room: D.10.24
phone: (0202) 439-2630
e-mail: knechtli@physik.uni-wuppertal.de

CSiS Secretary Office

- **Mr Dmytro Potikha, M.Sc.**
room: F.10.05
phone: (0202) 439-2594
e-mail: potikha@uni-wuppertal.de
csis@uni-wuppertal.de
website: <http://www.csis.uni-wuppertal.de/>

Appointments can be requested via email to potikha@uni-wuppertal.de.
Provide brief information about the reason for appointment request.

Examination Office CSiS

Transcript of records, Master thesis submission,
Master certificates:

- **Mr Philipp Depiereux**
room: T.12.05
phone: (0202) 439-5096
e-mail: depiereux@uni-wuppertal.de
website: <https://www.zpa.uni-wuppertal.de/de/studiengaenge/master/master-of-science-studiengaenge/msc-computer-simulation-in-science-po-2023/>

Quality of Studies and Teaching/ QSL Office

Contact for questions on the quality of studies and teaching:

- **Ms Sara Awwad, M.Sc.**
room: G.11.37
phone: (0202) 439 3439
e-mail: awwad@uni-wuppertal.de
website: <https://fk4.uni-wuppertal.de/de/studium/qualitaet-in-studium-und-lehre>

<https://www.csis.uni-wuppertal.de/en/studies-and-life/contact-persons/>

Contact Details

Student Admission and Registration: IntSek office

Contact address on all questions regarding enrolment, matriculation, ex-matriculation, semester fee, semester ticket, semester certificate.

Open hours at main entrance building G.08.16.: **Tuesdays and Thursdays, 9:00 – 12:00**

Telephone enquiries and advice: (0202) 439-3836 or 439 – 5139

Wednesdays, 14:00 – 16:00

e-mail: intsek@uni-wuppertal.de

website: <https://www.uni-wuppertal.de/en/international/international-profile/actors/contact/student-admission-and-registration-for-international-students/>

“StudiLöwe” is the university’s official course directory.

There you can update your address information, download your semester certificate and your current transcript of records at any time: <https://www.studilöwe.uni-wuppertal.de>.

<https://www.csis.uni-wuppertal.de/en/studies-and-life/contact-persons/>

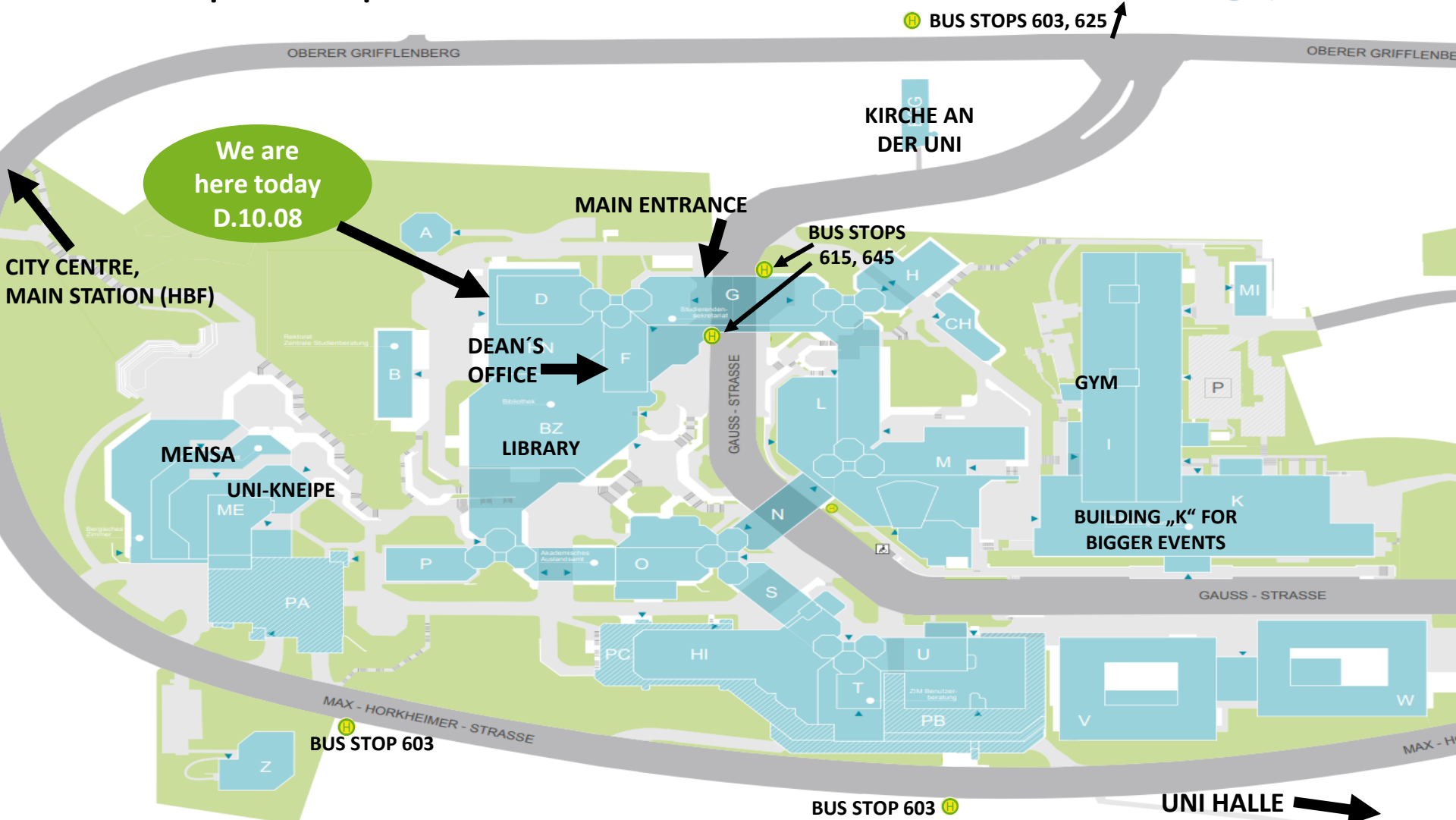
Save the Dates

- **Block Course Exam (room L.11.22/27)** **03.11.2026, 10:00**
 - **Block Course Repetition Exam (room L.11.22/27)** **01.12.2026, 10:00**
 - **Announcement of exam dates** **before the Christmas break in December 2025**
 - **Christmas and New Year holidays** **21.12.2026 – 03.01.2027**
 - **The end of lecture period** **05.02.2027**
 - **Examination session** **08.02.2027 – 31.03.2027**
 - **Guided tours and Events from IST** **Throughout the year**
- <https://www.uni-wuppertal.de/en/internationales/internationale-studierende/betreuungsangebote/events-at-the-university/leisure/>
- **Weekly international students get-together** **every Thursday at 19:00 at the Uni Kneipe (ME.04)**

Helpful Links

- IntSek office (admission and registration: <https://www.uni-wuppertal.de/en/international/international-students/>)
- Students Services Center: <https://www.uni-wuppertal.de/en/ssc/>
- Enrolment procedure: <https://www.uni-wuppertal.de/en/international/international-students/enrolment/>
- Residents registration office: <https://www.uni-wuppertal.de/en/international/international-students/enrolment/residents-registration-office/-foreign-citizens-office/>
- Certificate of enrolment: <https://www.uni-wuppertal.de/en/international/international-students/enrolment/certificate-of-enrolment/>
- Buddy Programme by International Student Team (IST): <https://www.uni-wuppertal.de/en/international/international-profile/in-touch-support-programme-for-international-students-studies-careers/buddy-programme/>
- German classes: <https://www.uni-wuppertal.de/en/international/international-students/learn-and-improve-german/> or https://buchung.sli.uni-wuppertal.de/angebote/aktueller_zeitraum/_German_in_the_Evening.html
- Psychological Counselling: <https://www.zsb.uni-wuppertal.de/de/beratung/psychologische-beratung/>
- Moodle: <https://moodle.uni-wuppertal.de/login/index.php>
- StudiLöwe: <https://www.studilöwe.uni-wuppertal.de/>

Campus Map



Appendix: CSiS Curriculum

Sem ester	Computer Simulation		Computer Science			Numerical Methods		
1 (Winter Semester) 28 CP	Computer Simulation 1* 11 CP Lab Course I 150h	AND Introduction to Computer Simulation 120h AND Block Course on Mathematical Foundations 60h	Computer Science 1 9 CP Modern Programming 180h		AND Virtualization I 90h or Introduction to HPC 90h	Numerical Methods 1 8 CP NM1: Numerical Analysis and Simulation I 240h	Numerical Methods 1 8 CP NM1a: Numerics of Ordinary Differential Equations with components: a + b or a + c 240h	MathML 8 CP MatML: Mathematical Machine Learning 240h
						or	or	
2 (Summer Semester) 24 CP / 28 CP	Computer Simulation 2 13 CP Data Analysis 150h	AND Parallel Algorithms 240h	Computer Science 2 3 CP Tools 90h	Computer Science 2 3 CP Tools 90h	Computer Science 2 7 CP Bayesian Learning 210h	Numerical Methods 2 8 CP Numerical Methods 2a: Numerical Analysis and Simulation II 240h	Numerical Methods 2 8 CP Numerical Methods 2b: Numerical Methods in Classical Field Theory and Quantum Mechanics 240h	
			or	or		or		
3 (Winter Semester) 22 CP / 18 CP	Computer Simulation 3* 12 CP Introduction to Computer Simulation II 120h	AND Lab Course II 240h	Computer Science 2 (contd.) 4 CP Image Processing and Data Visualization 120h	Computer Science 2 (contd.) 4 CP Virtualization II 120h		Numerical Methods 3 6 CP Numerical Linear Algebra 180h		

Thank you for your attendance!