

Computational Modeling and Simulation

Welcome Introduction

Prof. Martin Weigert – Program Coordinator

Dresden, 2026-10-05

Agenda

1. Welcome (Prof. Dr. Weigert)
2. Examination Office (Ms Kruse)
3. Program Overview (Prof. Dr. Weigert)
4. Presentation of Study tracks (CMS track coordinators)
5. Language Course Offerings (Prof. Dr. Weigert)
6. Service and Support (Prof. Dr. Weigert)
7. iFSR (Haris)
8. Closing (Prof. Dr. Weigert)

Computational Modeling and Simulation

Welcome and Opening Remarks



Welcome



City of Dresden

- >500.000 inhabitants
- >200 bars and clubs in Neustadt alone
- Baroque old town
- Semper Opera
- Symphony hall
- 10 theaters
- 50 museums
- Botanical gardens
- Vibrant art scene
- Dozens of festivals throughout the year
- 1.5 hrs from Prague or Berlin



Science in Dresden

- 3 Max Planck Institutes
- 11 Fraunhofer Institutes
- 4 Leibniz Institutes
- 2 Helmholtz Centers
- TU Dresden (≈29,000 students, 121 degree programs, supercomputer, library with >9M volumes)
- HTW Dresden
- School of Arts
- High-tech companies, including Global Foundries, Bosch, TSMC, Siemens, Infineon, SAP and Zeiss



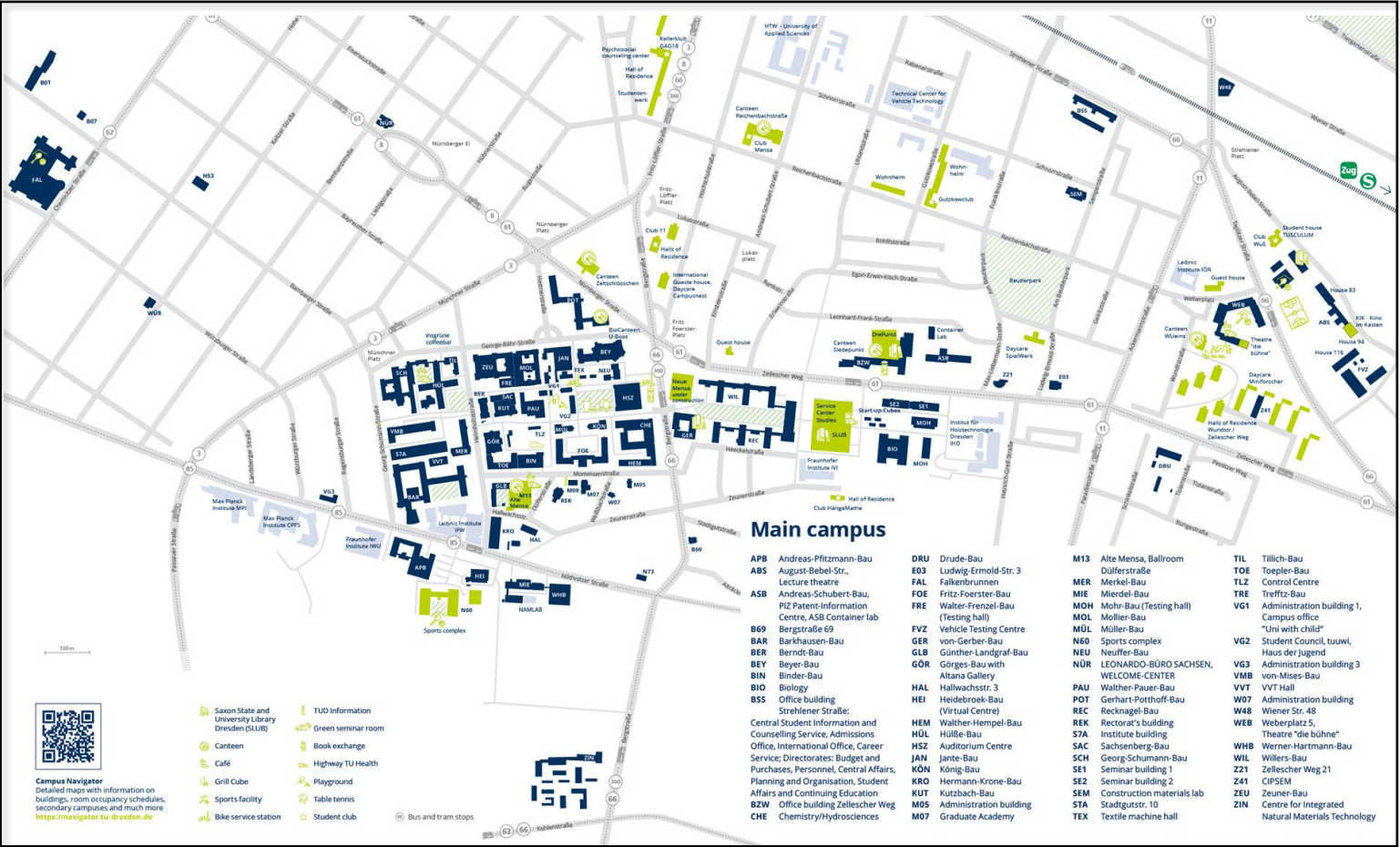
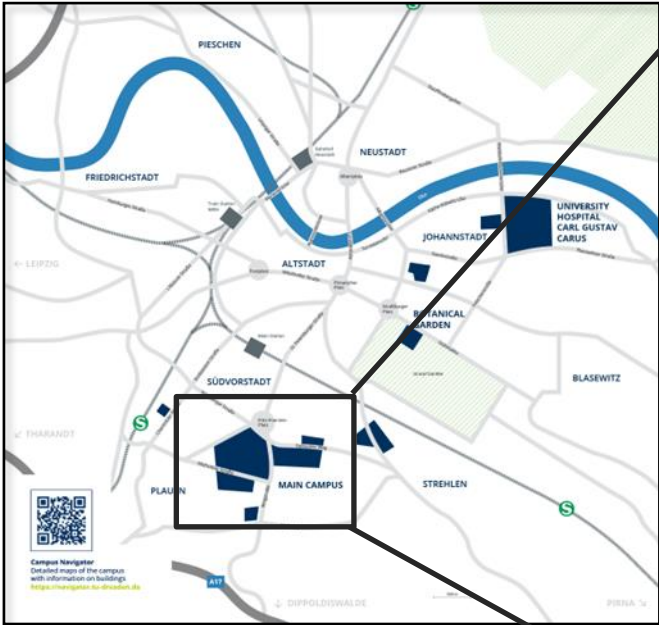
CMS: Class of 2026

- 1.243 applications
- 234 students admitted
- [tbc] students enrolled (as of [date])



TU Dresden Campus

Dresden



CMS: an Interfaculty Program



Computer Science **AAI, VC, CLS**



Mathematics **CMA**



CMCB **CLS**



Mechanical Eng. **CE**



Electr. & Comp. Eng. **AAI**



Business & Economics **EE**



Environmental Sci. **CESE**



NCT Dresden **CLS**

Local Research Centers in CMS



Computational Modeling and Simulation

Examination Office

Kerstin Kruse

CMS examination office

Kerstin Kruse

Room: APB-3038; 01069 Dresden

Phone: +49 351 463 38378

Ticket: <https://tu-dresden.de/ing/informatik/studium/examination-office/contact>

The examination office is responsible for the administration of examinations.



CMS examination office

You will receive information about registration and deregistration periods for / from exams via email from the examination office when the registration period starts.

The registration periods for examinations can be found at:
https://tu-dresden.de/ing/informatik/studium/examination-office/pruefungen_pruefungstermine?set_language=en

- The timeframe for course registrations can differ. You will get respective information from each lecturer.
- Please note that the registration for exams in Selma is legally binding!
- More detailed explanations about Selma will be given later during registration period for examinations.
- **Exam registration in winter semester 2026/27 will start by early December 2026.**

Computational Modeling and Simulation

Program Overview

Program Structure

120 Credits (CP)

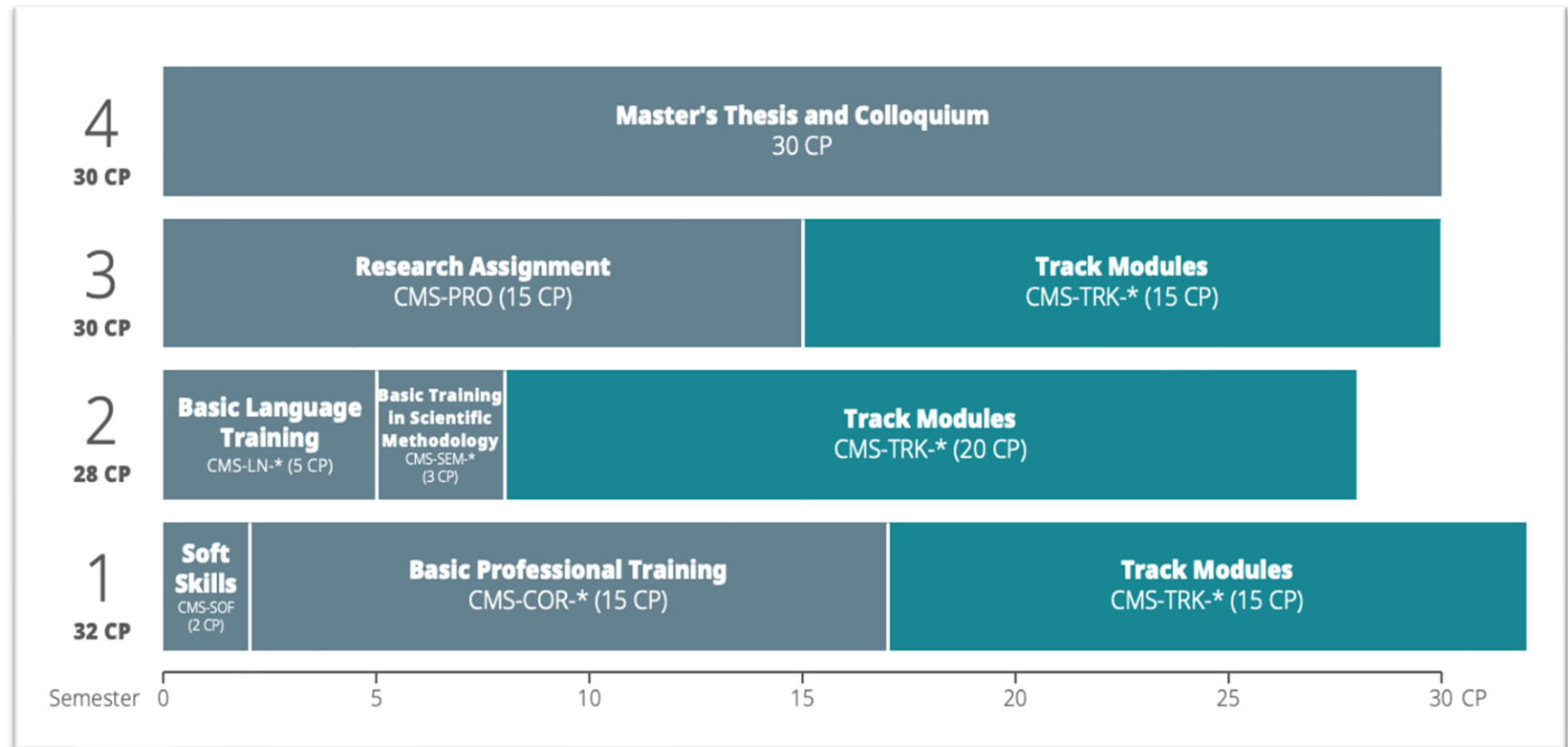
Common Curriculum (40 CP)

Soft skills, literature studies,
Basic Professional Training

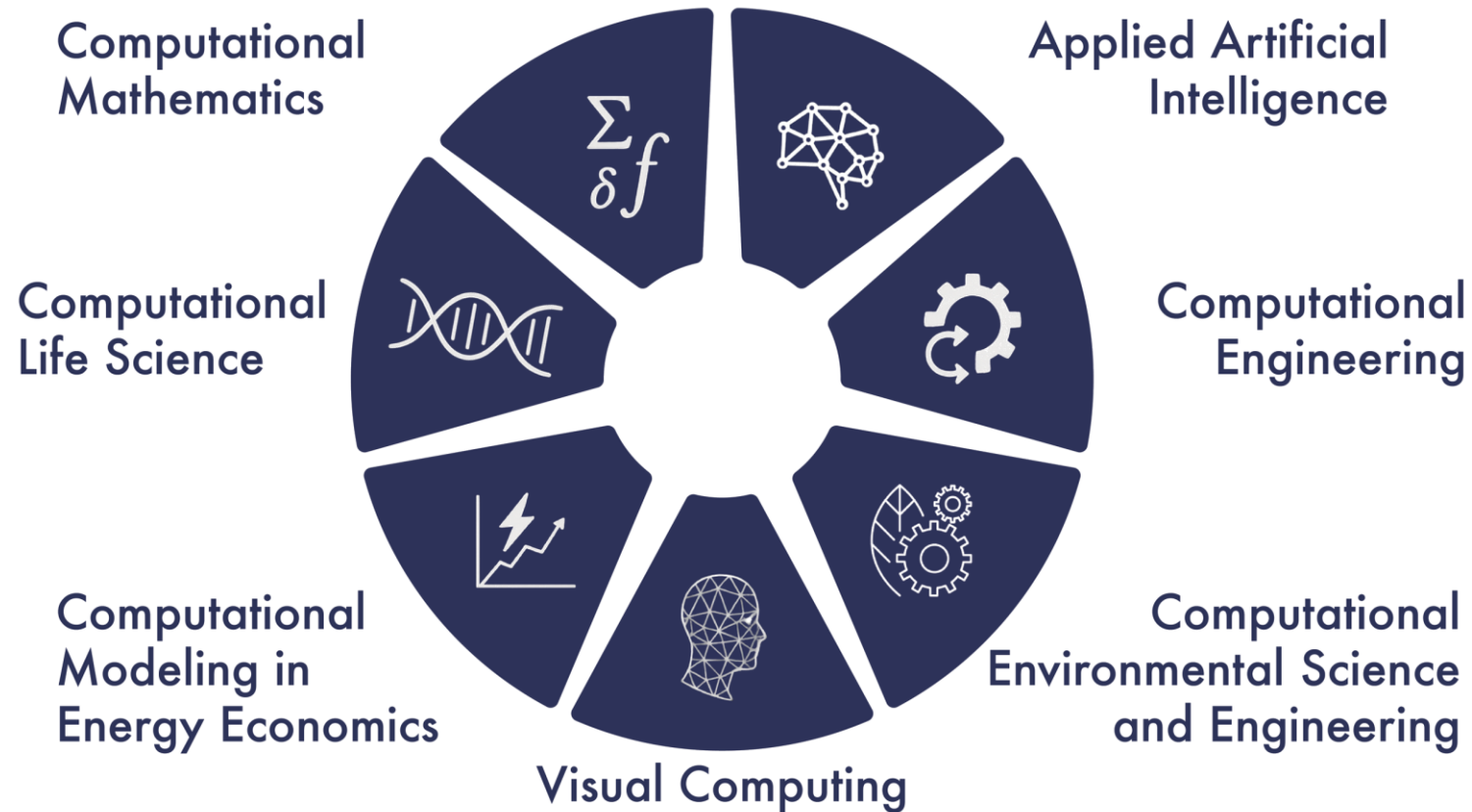
Track Specific Modules (50 CP)

Advanced modules in track

Master's Thesis (30 CP)



Seven Tracks

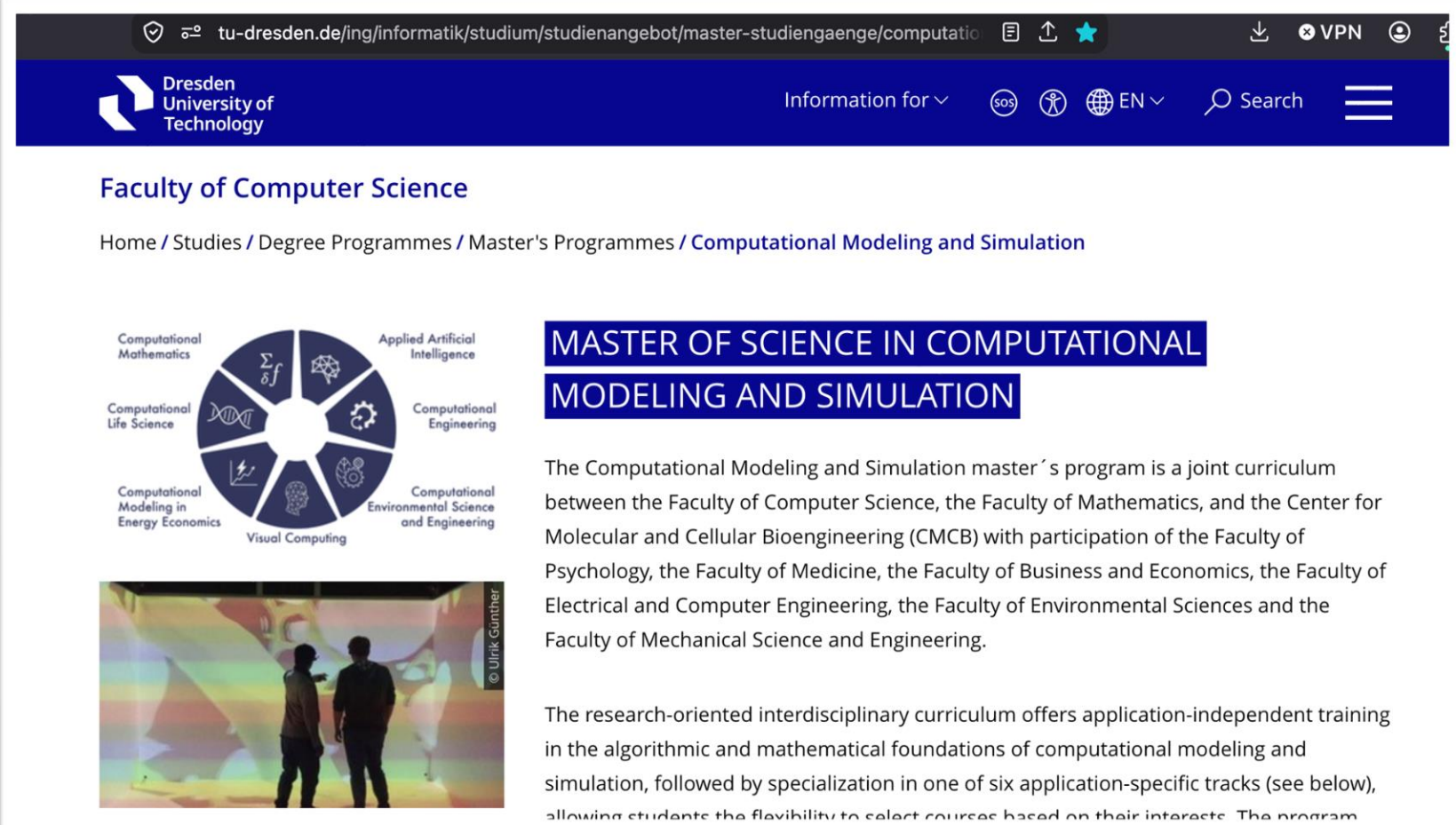


CMS Website

[CMS website](#)

Main entry point for:

- Track information
- Contact
- Regulations
- etc



Faculty of Computer Science

Home / Studies / Degree Programmes / Master's Programmes / **Computational Modeling and Simulation**

MASTER OF SCIENCE IN COMPUTATIONAL MODELING AND SIMULATION

The Computational Modeling and Simulation master's program is a joint curriculum between the Faculty of Computer Science, the Faculty of Mathematics, and the Center for Molecular and Cellular Bioengineering (CMCB) with participation of the Faculty of Psychology, the Faculty of Medicine, the Faculty of Business and Economics, the Faculty of Electrical and Computer Engineering, the Faculty of Environmental Sciences and the Faculty of Mechanical Science and Engineering.

The research-oriented interdisciplinary curriculum offers application-independent training in the algorithmic and mathematical foundations of computational modeling and simulation, followed by specialization in one of six application-specific tracks (see below), allowing students the flexibility to select courses based on their interests. The program

CMS Website: Regulations

[CMS website](#) → [Regulations](#)

“Regulations from 2026”

- study and exam regulations
- module descriptions
- study plan (SAPL)

tu-dresden.de/ing/informatik/studium/studienangebot/master-studiengaenge/computatio

Dresden University of Technology

Information for

Faculty of Computer Science

Home / Studies / Degree Programmes / Master's Programmes / Computational Modeling and Simulation

REGULATIONS FROM 2026 ONWARDS

The study documents are announced in the [Amtlichen Bekanntmachungen Dresden](#).

The German versions are legally binding, only!

Study Regulations

announced on 18 February, 2026

- Study Regulations ¹: [de](#), [en](#)
- Third Amendment to the Study Regulations: [de](#), [en](#)
- Module Descriptions: 2026 [en](#)
Study Schedule: 2026 [en](#)

Search

- Computer Science (starting 10/2025)
- Media Computer Science
- Computational Modeling and Simulation
- Contact
- Curriculum
- Tracks
- Application and Admission from 2026
- Regulations from 2026**
- Regulations until 2025
- Study
- FAQ

Modules and Courses

Module

- The unit you earn credits for, e.g. CMS-TRK-CV Computer Vision (5 CP)
- Defined in the module description: content, workload, exam
- Ends with one module exam (PL)
- Failed exams can be repeated 2x (passed not)
- Register in **Selma**

Course

- A teaching event that belongs to a module: lecture, exercise, seminar, lab
- Listed in the course catalogue with times and rooms
- Material and announcements usually via OPAL
- Typical module = **1 lecture + 1 exercise**

Study Plan (Recommended Schedule)

[CMS website → Regulations](#)

- The study plan (SAPL) lists every module with its semester, weekly hours and credits
- Semester 1: Soft Skills + 3 of these 6 core modules + track modules
- Every track has a slightly different one

Module Number	Module name	1st Semester	2nd semester	3rd Semester (M)	4th Semester	LP
		Lecture/Seminar/Practical/Project	Lecture/Seminar/Practical/Project	Lecture/Seminar/Practicum/Project	Lecture/Seminar/Practicum/Project	
CMS-COR-HPC	High-Performance Computing	2/2/0/0 1 PL				5
CMS-COR-ML	Machine Learning	2/2/0/0 1 PL				5
CMS-COR-NUM	Basic Numerical Methods	2/2/0/0 1 PL				5
CMS-COR-SAP	Stochastics and Probability	2/2/0/0 1 PL				5
CMS-COR-SSE	Scientific Software Engineering	2/2/0/0 1 PL				5
CMS-COR-VIZ	Data Visualization	2/2/0/0 1 PL				5

How to read the study plan:

- 2/2/0/0 = weekly hours (SWS) of lecture / exercise / seminar / practical
- 1 PL = one exam ("Prüfungsleistung")
- 5 LP = 5 credit points ≈ 150 h work

Exceptions: Soft Skills and literature seminars (0/0/2/0), language courses (4 SWS), team projects and the Research Assignment.

Computational Life Sciences						
Required Area						
CMS-TRK-ABI	Applied Bioinformatics		2/2/0/0 1 PL			5
CMS-TRK-MOS	Modeling and Simulation in Biology		2/2/0/0 1 PL			5
CMS-TRK-TEA-CLS	Computational Life Science Team Project		8 SWS Pj 1 PL			10

Elective-Required Area						
Select 6 out of 24 modules.						
CMS-TRK-UI1	User Interface Engineering	2/2/0/0 2 PL				5
CMS-TRK-CFD	Computational Fluid Dynamics	2/2/0/0 1 PL				5
CMS-TRK-FCG	Foundations of Computer Graphics	2/2/0/0 1 PL				5

Module Descriptions

[CMS website → Regulations](#)

- Teaching format and language
- Prerequisites (recommended prior knowledge)
- Exam form (written, oral, portfolio ...)
- When it is offered (winter or summer)
- Workload: 5 CP = 150 h

Module name	Computer Vision
Module number	CMS-TRK-CV
Module coordinator	Prof. Dr. Bjoern Andres bjoern.andres@tu-dresden.de
Teaching and learning methods	The module consists of lectures totaling 2 SWS, exercises totaling 2 SWS, and self-study. The language of instruction for the lectures and exercises is English.
Requirements for earning credit points	Credit points are awarded upon passing the module exam. The module exam consists of a 90-minute written exam. The exam language is English.
Credit points and grades	A total of 5 credit points can be earned through this module. The module grade corresponds to the grade on the exam.
Module frequency	The module is offered every winter semester.
Workload	The total workload is 150 hours.
Duration of the module	The module lasts 1 semester.

Course Catalogue

<https://tu-dresden.de/ing/informatik/studium/lehre/lehangebotskataloge>

CATALOGUE OF TEACHING OFFERS

On this page you will find the course catalogs and course schedules (timetables) of the Faculty of Computer Science.

Courses offered	Course schedules
Winter semester 2025/2026	Winter semester 2025/2026
Subject to changes and additions.	Subject to changes and additions.
	Please check time and room entries - especially for courses with more than one exercise and for PC pool information - via the course pages of the Chairs.

Lehrangebot Wintersemester 2025/2026 - Studiengang Computational Modeling and Simulation, Master, PO 2025

25.09.2025

▼ Pflichtmodul Track Applied Artificial Intelligence

CMS-AAI-AP Applications of Applied Artificial Intelligence

[↑ nach oben](#)

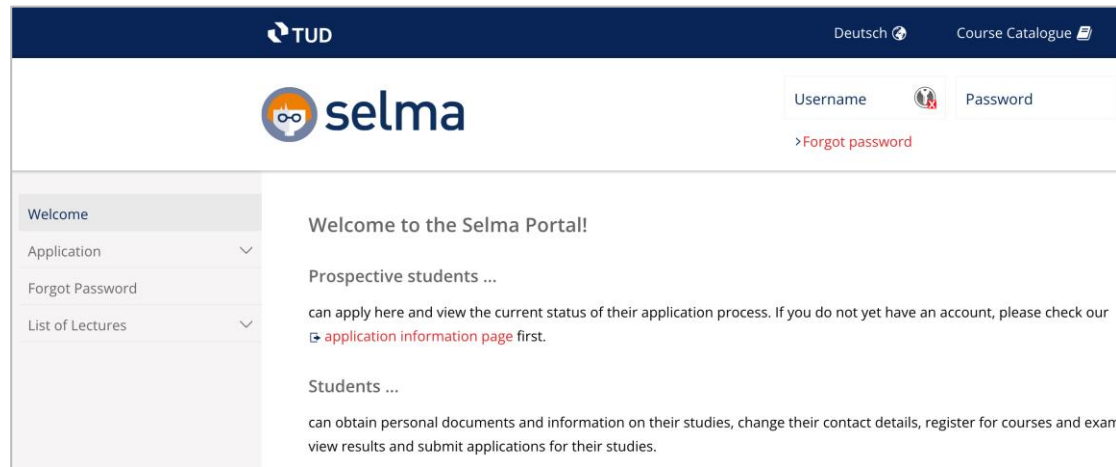
Lehrveranstaltung	SWS	Sprache	Dozent	Institut
Biomedical Laser Systems and Optogenetics	2/0/0	englisch	Prof. Czarske	Andere Fakultäten
Computer- und robotergestützte Chirurgie	2/2/0	deutsch	Prof. Speidel	Andere Fakultäten
Computergraphik I	2/2/0	englisch	Prof. Gumhold	Software- und Multimediatechnik
Data Visualization	2/2/0	englisch	Prof. Gumhold, Prof. Dachsel	Software- und Multimediatechnik

Choose Winter semester 2026/27 and “PO 2026” (**not** PO 2025). The catalogue lists the courses of each module with times and rooms.

Registration: Selma vs. OPAL

Selma formal · legally binding

<https://selma.tu-dresden.de/>

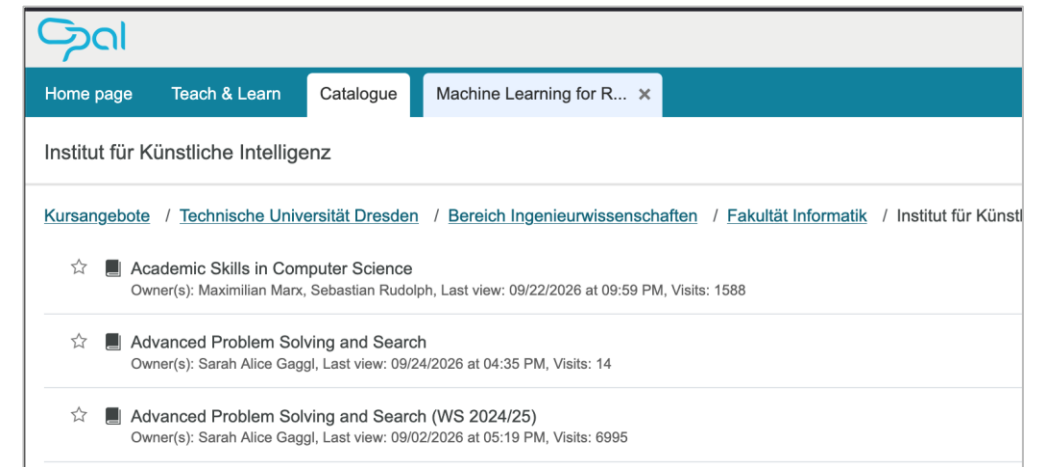


- Register for your modules (~ start semester)
- Register for exams (usually ~early December)
- Grades, transcripts, certificates
- Only what is registered in Selma counts!

Read emails by Exam office (deadlines etc)!

OPAL informal · per course

<https://bildungsportal.sachsen.de/opal/>



- Course pages: material, forums, ...
- Some courses organise exercise groups here
- Enrolment for language courses

Computational Modeling and Simulation

Presentation of Study Tracks

Track CMS-AAI

Applied Artificial Intelligence



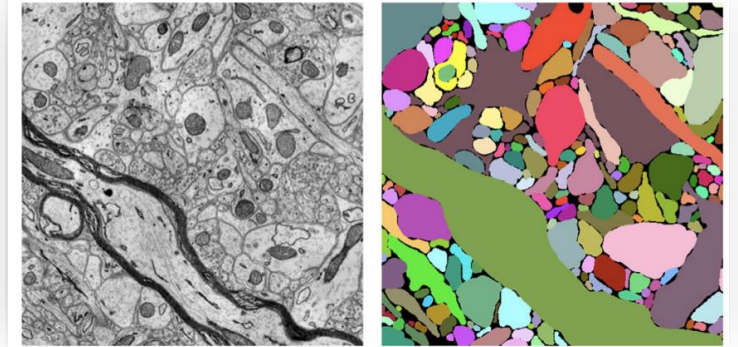
Track Coordinator
Prof. Roberto Calandra

Applied Artificial Intelligence Track – Topics

Machine Learning

$$\min_{y \in \mathcal{Y}} \inf_{\theta \in \Theta} \lambda R(\theta) + \frac{1}{|S|} \sum_{s \in S} L(f_{\theta}(x_s), y_s)$$

Computer Vision



Robotics

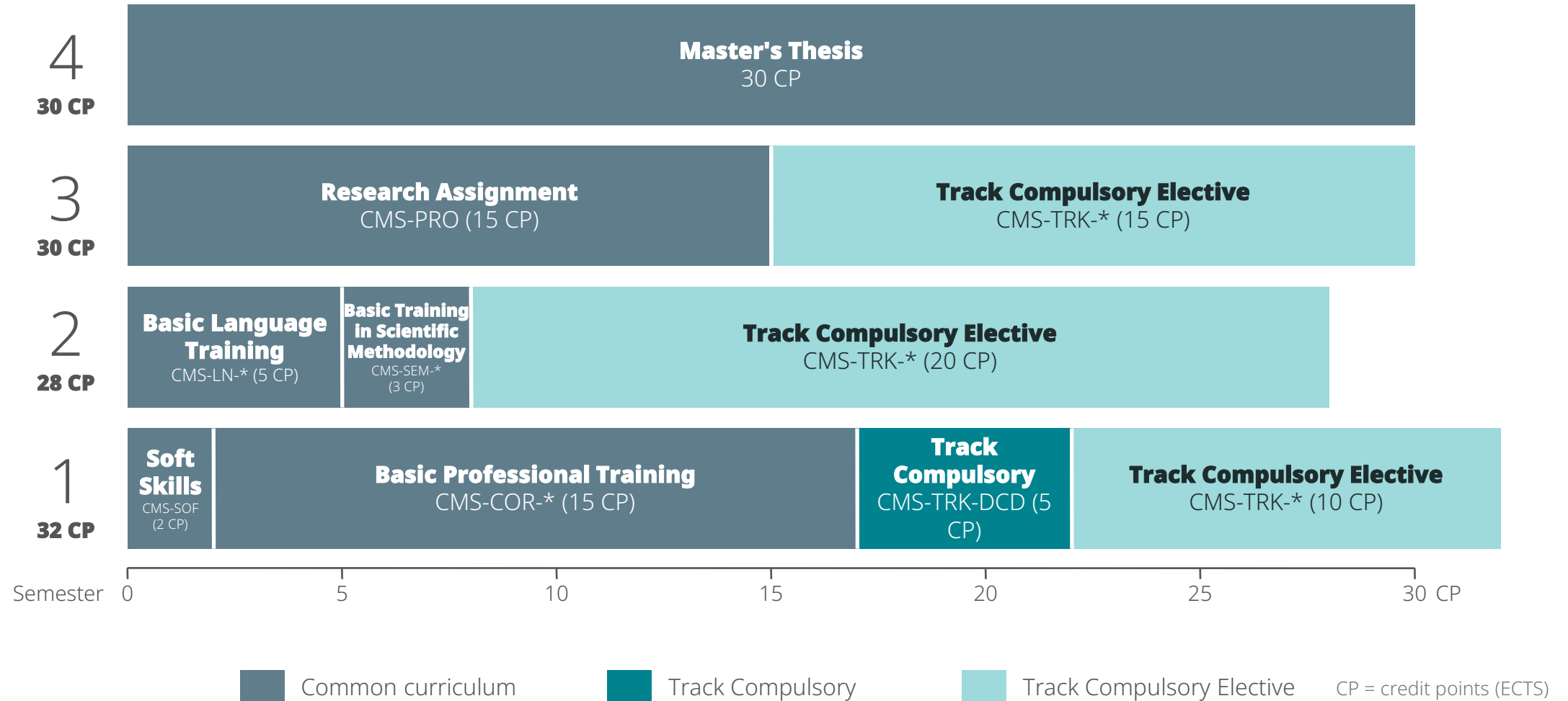


AI Hardware



Study Plan

Applied Artificial Intelligence (CMS-AAI)



Track Mentors



Prof. Roberto Calandra
Machine Learning for Robotics
Faculty of Computer Science



Prof. Christian Mayr
Highly-Parallel VLSI Systems and Neuro-
Microelectronics
Faculty of Electrical and Computer Engineering

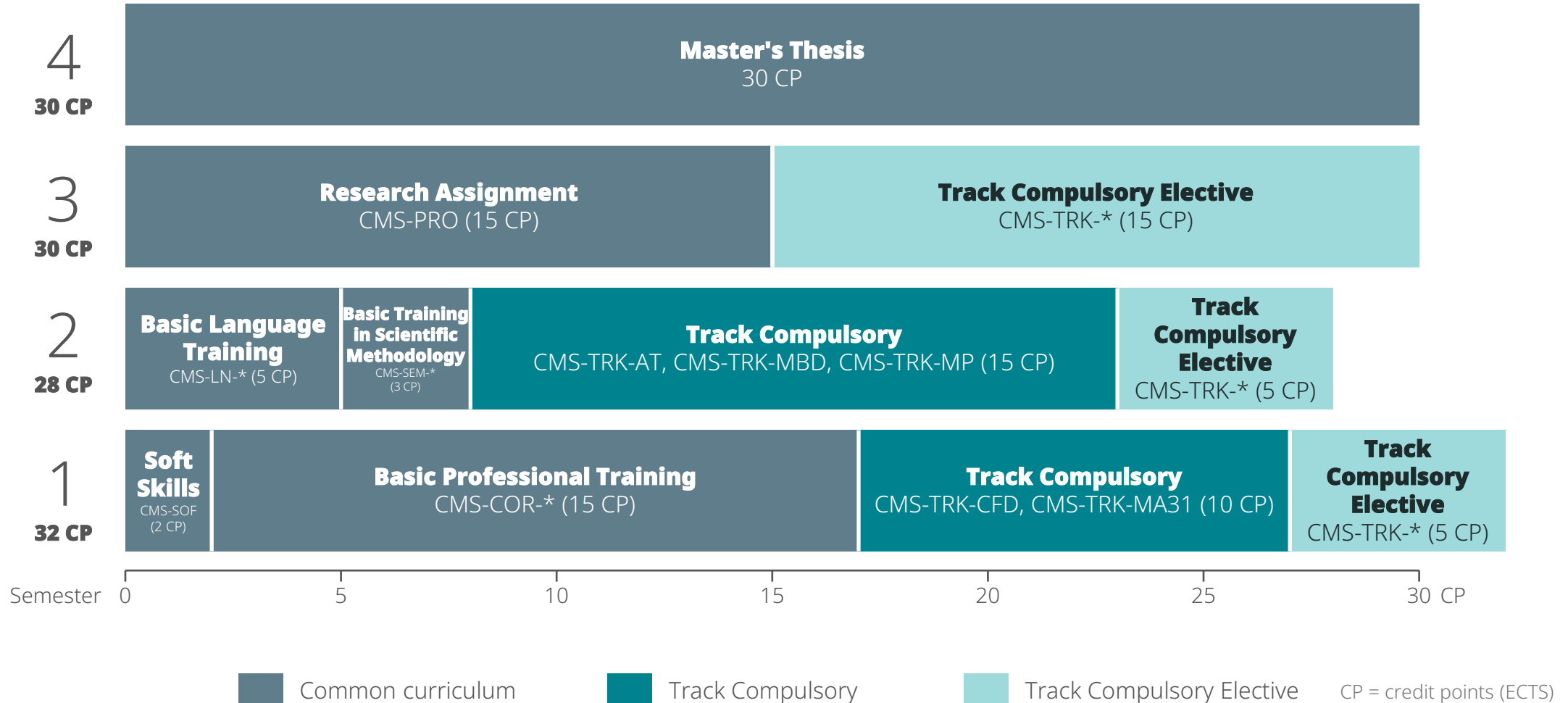
Track CMS-CE

Computational Engineering



Track Coordinator
Prof. Michael Beitelschmidt

Track Computational Engineering



Track CE specifics, Semester 1

Compulsory

CMS-TRK-CFD
Computational Fluid Dynamics*

CMS-TRK-MA31
**Finite Element Methods - Theory,
Implementation, and Applications**

Compulsory elective (1 of 6)

CMS-TRK-UI1
User Interface Engineering

CMS-TRK-SysDyn
System Dynamics*

CMS-TRK-SysEng
Foundations of Systems Engineering

CMS-TRK-APSS
Advanced Problem Solving and Search

CMS-TRK-MA33
**Scientific Programming – Advanced
Concepts**

CMS-TRK-FCG
Foundations of Computer Graphics

**Soft
Skills**
CMS-SOF
(2 CP)

Basic Professional Training
CMS-COR-* (15 CP)

Track CE specifics, Semester 2

Compulsory

CMS-TRK-AT
Advanced Topics in Finite Element Analysis*

CMS-TRK-MBD
Multi Body Dynamics*

CMS-TRK-MP
Multifield Problems*

**Basic Language
Training**
CMS-LN-* (5 CP)

**Basic Training
in Scientific
Methodology**
CMS-SEM-*
(3 CP)

Compulsory elective (1 of 7)

CMS-TRK-CLC
**Closed-Loop Control in Networked Control
Systems**

CMS-TRK-EMS
**Electromechanical and
microelectromechanical systems**

CMS-TRK-UI2
Advanced User Interfaces

CMS-TRK-DDA
Digitization and Data Analytics

CMS-TRK-IIV
Interactive Information Visualization

CMS-TRK-PM
Particle Methods

CMS-TRK-SciVis
Scientific Visualization

Track CE specifics, Semester 3

Compulsory elective (3 of 5)

CMS-TRK-Aero
**Introduction to Computational
Aerodynamics***

CMS-TRK-CRC
Computer- and Robot-Assisted Surgery

CMS-TRK-Sim
Practical Aspects of Simulation*

CMS-TRK-CV
Computer Vision

CMS-TRK-TSP
Touch Sensing and Processing

Research Assignment
CMS-PRO (15 CP)

Remarks:

- Elective modules from 1st and 3rd semester can be exchanged.
- Other modules from the TUD curriculum may also be selected upon request.
- Courses with * are under responsibility of one of your mentors

Track Coordinator

Prof. Dr. Michael Beitelschmidt

Chair for Dynamics and Mechanism Design
Faculty of Mechanical Engineering



Important reminder:

All Computational Engineering students are invited:

Monday, October, 12th at 5.00 pm

Room: tba

- More details about curriculum
- Electives catalogue
- Mentoring, introduction of mentors
- Q&A

Track Mentors



Prof. Michael Beitelschmidt

Dynamics and Mechanism Design

Faculty of Mechanical Science and
Engineering



Prof. Jochen Fröhlich

Fluid Mechanics

Faculty of Mechanical Science and
Engineering



Prof. Markus Kästner

Computational and Experimental
Solid Mechanics

Faculty of Mechanical Science and
Engineering



**Prof. Thomas
Wallmersperger**

Mechanics of Multifunctional
Structures

Faculty of Mechanical Science and
Engineering

Track CMS-CESE

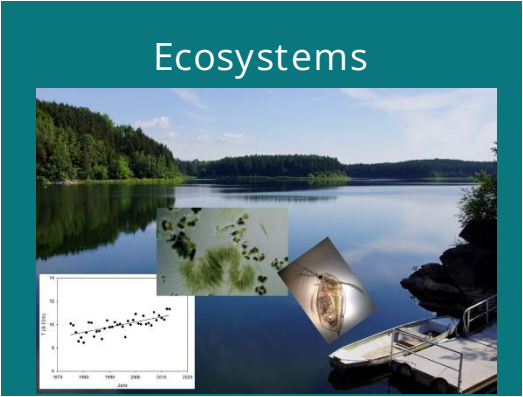
Computational Environmental Science and Engineering



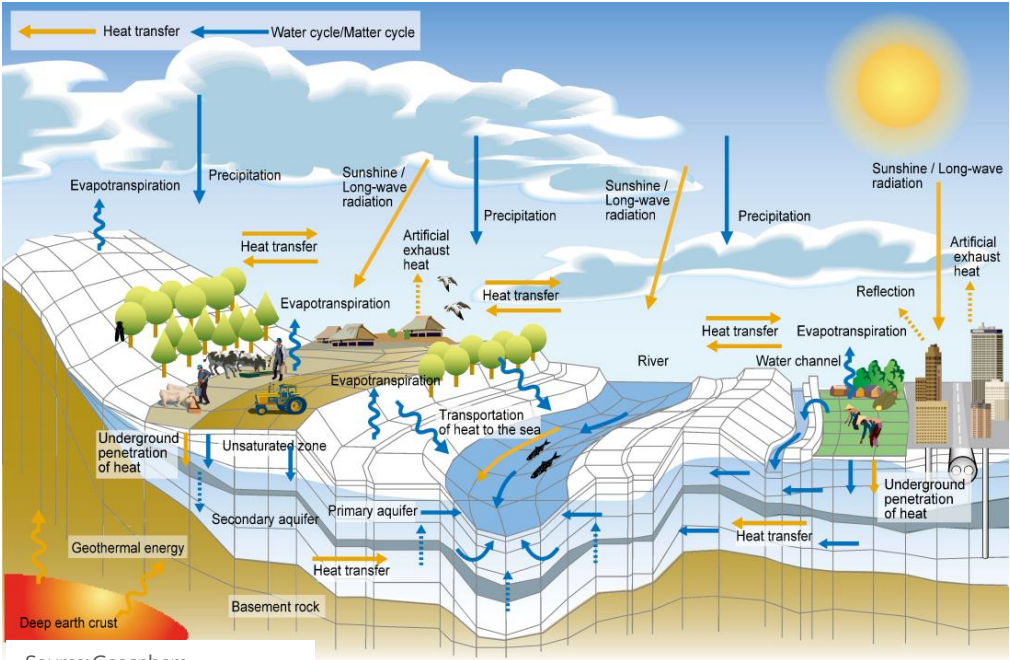
Track Coordinator
Prof. Niels Schütze

Computational Environmental Science and Engineering (CMS-CESE)

Ecosystems



Micropollutants

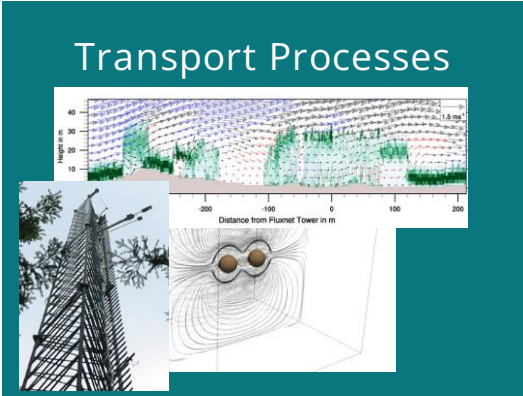


Source: Geosphere
Environmental Technology
Corp.

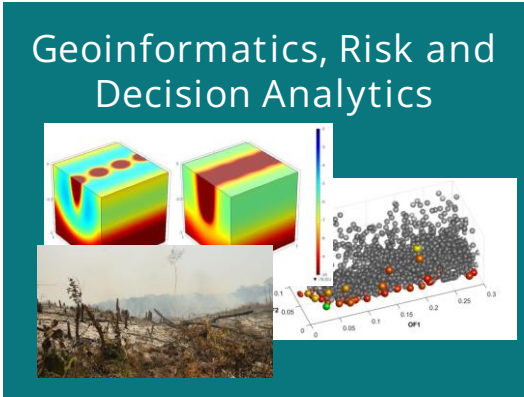
Geosensors



Transport Processes



Geoinformatics, Risk and Decision Analytics

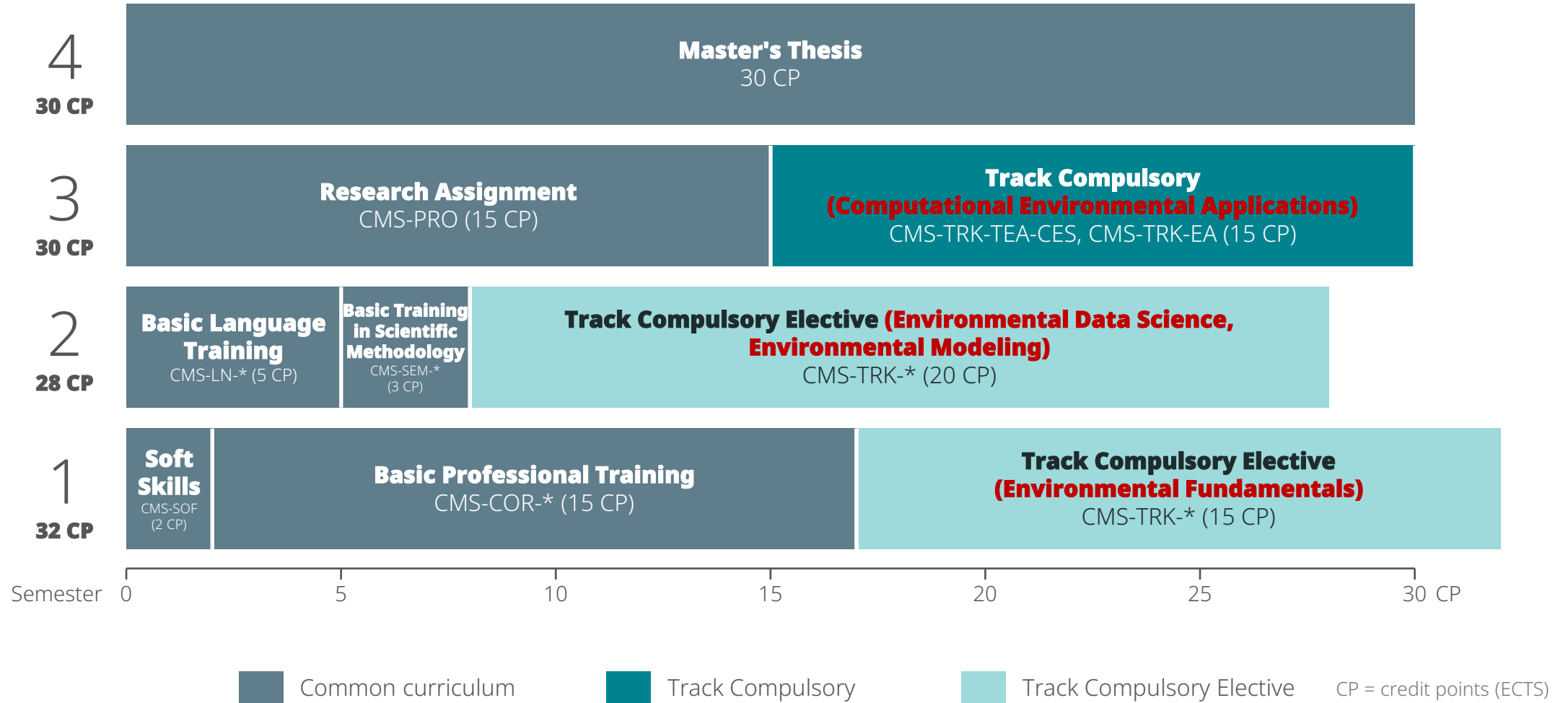


Data Analytics and Environmental Extremes



Study Plan

Computational Environmental Science and Engineering (CMS-CESE)



Main Contributors from *Hydro-*, *Geo-* and *Forest-* Sciences

Thomas Berendonk



Hydro-
biology

Matthias Mauder



Meteorology

Niels Schütze



Hydrology

Jakob Zscheischler



Data Analytics in
Hydro Sciences

Matthias Forkel



Environmental
Remote
Sensing

Anette Eltner



Geosensor
Systems

Lars Bernard



Geo-
informatics

Martin Horwath



Geodetic
Earth System
Research

Thomas Wöhling



Stochastic
Hydrology

Andreas Hartmann



Groundwater
systems

Bernhard Vowinckel



Transport
Processes in
Hydro Systems

Uta Berger



Forest
Biometrics
and Systems
Analysis

Track Mentor



Prof. Niels Schütze

Hydrology

Faculty of Environmental Sciences
Speaker of the Department
of Hydro Sciences

Track CMS-CLS

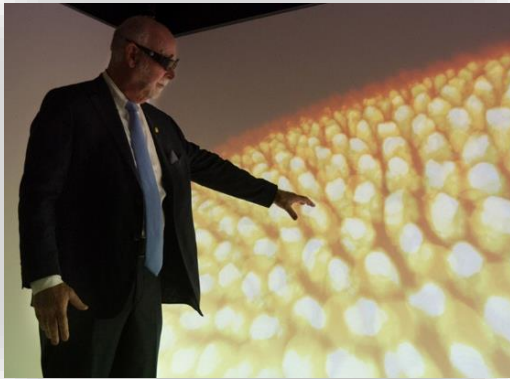
Computational Life Science



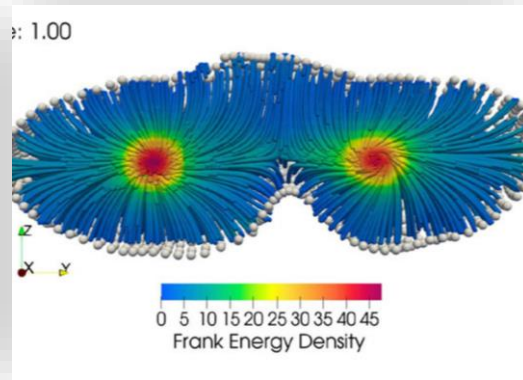
Track Coordinator
Dr. Nandu Gopan

Why Computational Life Sciences track?

„Computer science is for today's life sciences what mathematics is for physics.“
Modeling and simulation define the future of medicine and biology.



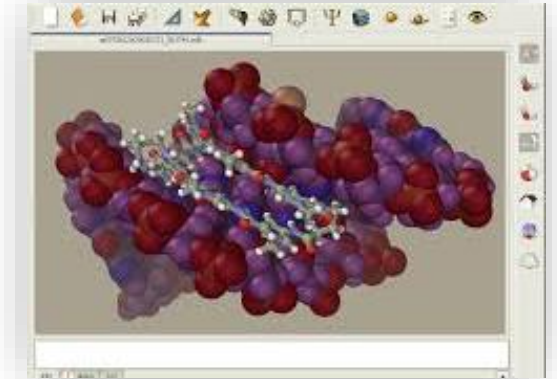
Biomedical Image
Analysis and
Visualization



Simulations of
Biological Systems



Virtual Surgery/
Personalized Medicine

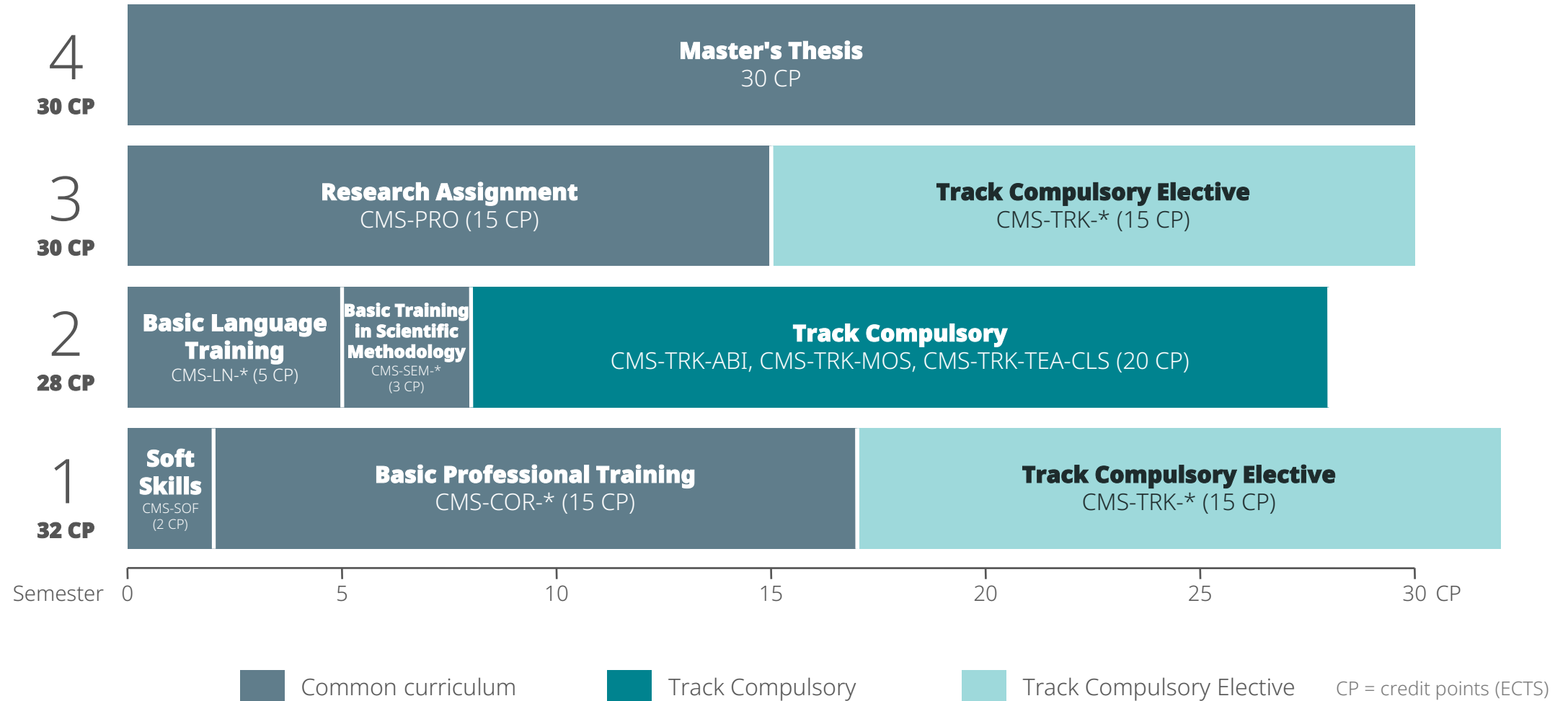


Bioinformatics and
Molecular Modeling

...and many other, like: Computational Neuroscience, Augmented Reality for Medicine, Drug Discovery, ...

Study Plan

Computational Life Sciences (CMS-CLS)



Track Mentors



Dr. Nandu Gopan
Scientific Computing for Systems
Biology
Center for Systems Biology Dresden



Prof. Michael Schroeder
Bioinformatics
BIOTEC / CMCB



Prof. Martin Weigert
Machine Learning for Spatial
Understanding
ScaDS.AI / Faculty of Computer Science

Track CMS-CMA

Computational Mathematics



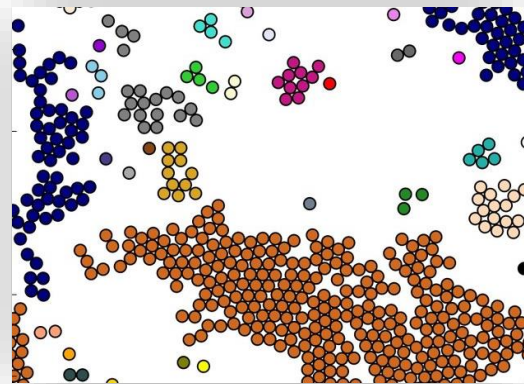
Track Coordinator
Prof. Axel Voigt

Computational Mathematics

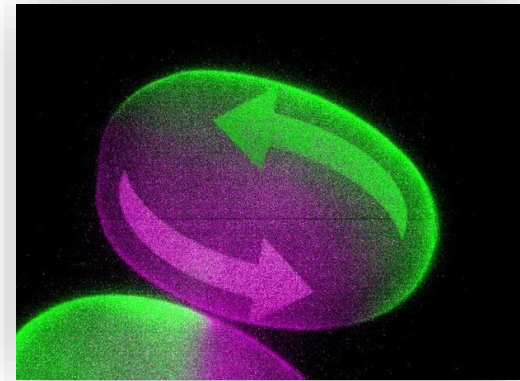
Modeling and simulation next to experiments and theory



Algorithms for High
Performance
Computing



Simulations in Materials
Science



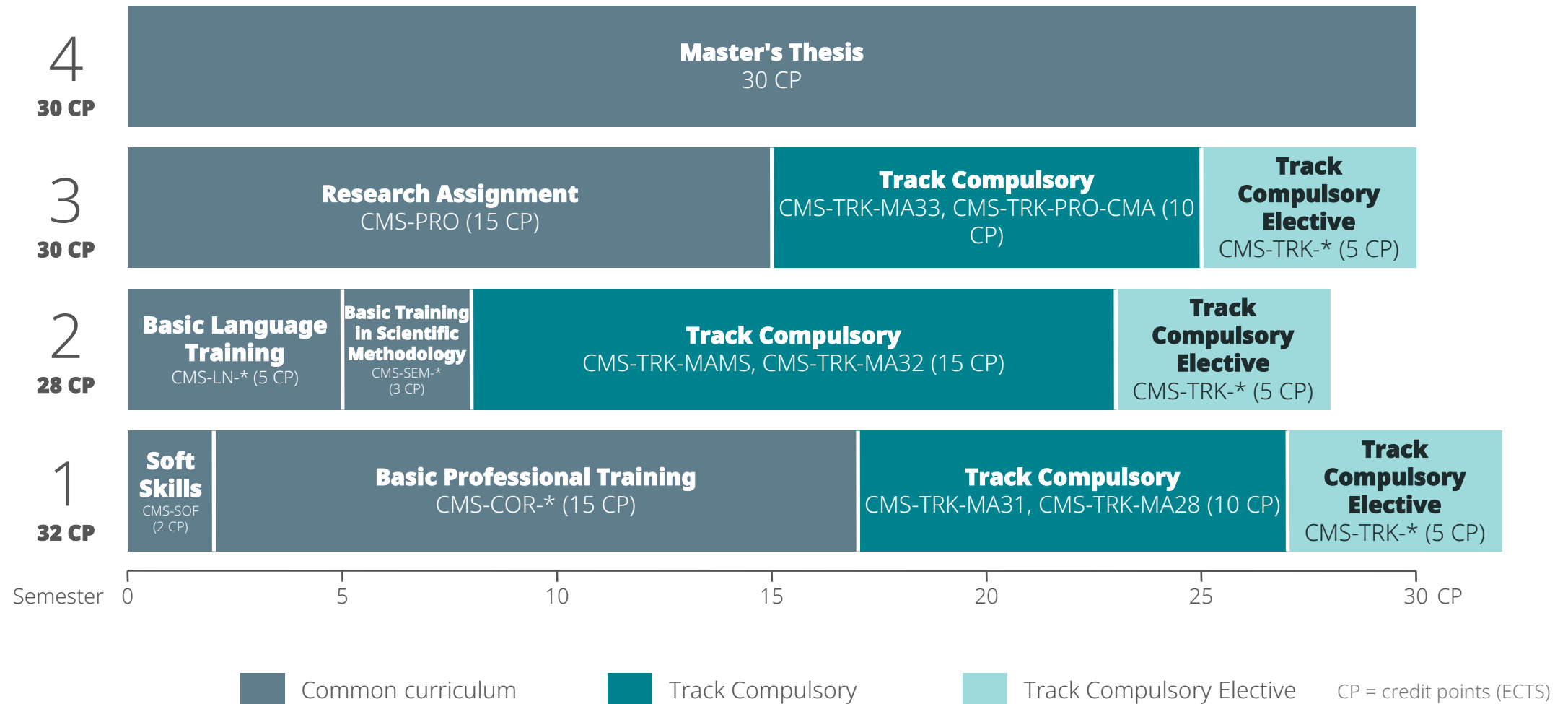
Simulations in Biology
and Biophysics



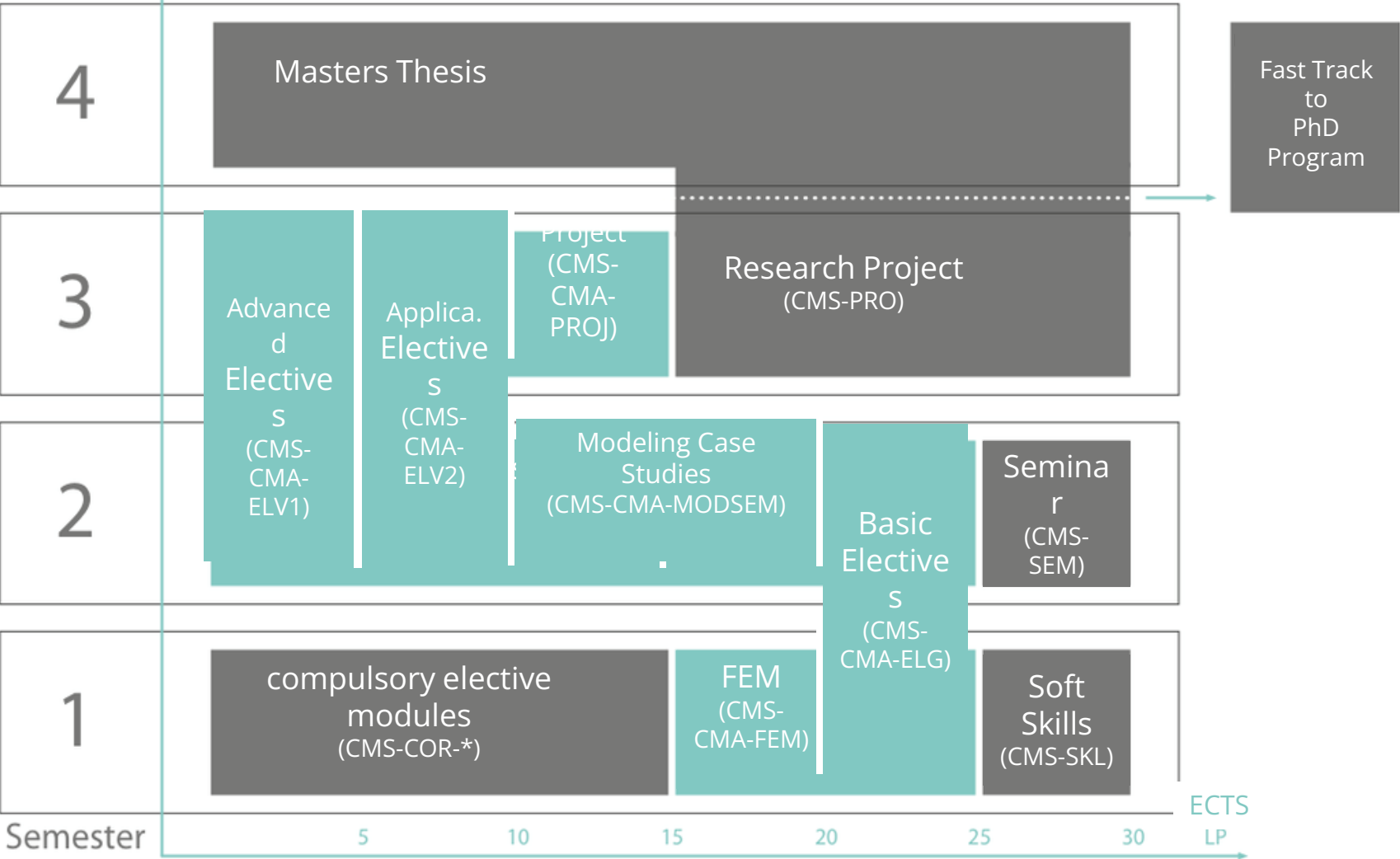
Computational
Architecture and
Design

Study Plan

Computational Mathematics (CMS-CMA)



Track Computational Mathematics



Track Computational Mathematics

Semester 1

Electives Basics
Part 1

Numerik of Partial Differential Equations, Prof. Matthies

Advanced Concepts of Object-Oriented Computer Languages, Prof. Walter

Computational Fluid Dynamics, Prof. Fröhlich

choice from catalog

Introduction to Mathematical Biology, Prof. Deutsch

Biophysical Methods, Prof. Schlierf

...

Track Mentors



Prof. Axel Voigt

Scientific Computing and Applied
Mathematics

Faculty of Mathematics



Prof. Oliver Sander

Numerics of Partial Differential
Equations

Faculty of Mathematics

Track CMS-CEE

Computational Modeling in Energy Economics



Track Coordinator
Prof. Dominik Möst

What makes us special?

Systemic aspects of energy supply

Applied energy economics and techno-economic analysis of energy systems

1. Development of models and other methodic approaches to support decision-making in the energy sector

Application on various levels

2. Power plant dispatch & evaluation / integration of RES

3. Transmission & distribution networks, congestion mgmt. & nodal pricing

4. National / international energy systems and markets / market coupling

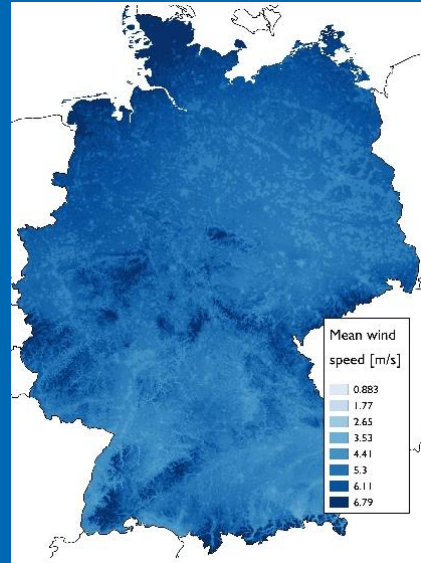
5. Political / regulatory issues, market design, business models



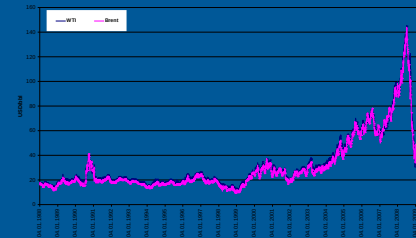
National / international research projects

- SOffie
- Must
- MonKWP
- DigiTechNetz
- EffiziEntEE

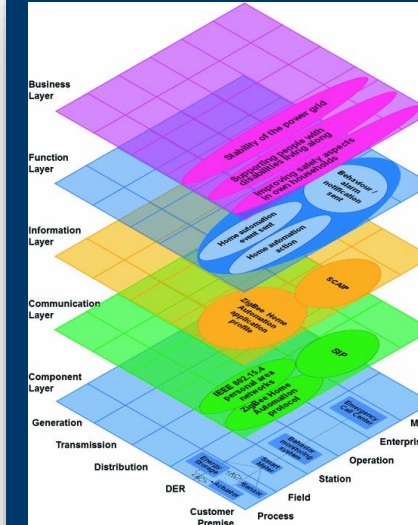
Computational Modeling in Energy Economics



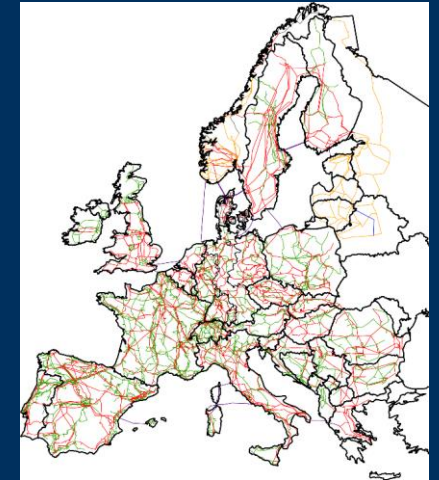
Data Science in
Energy
Economics



Market Analyst
in Energy
Economics



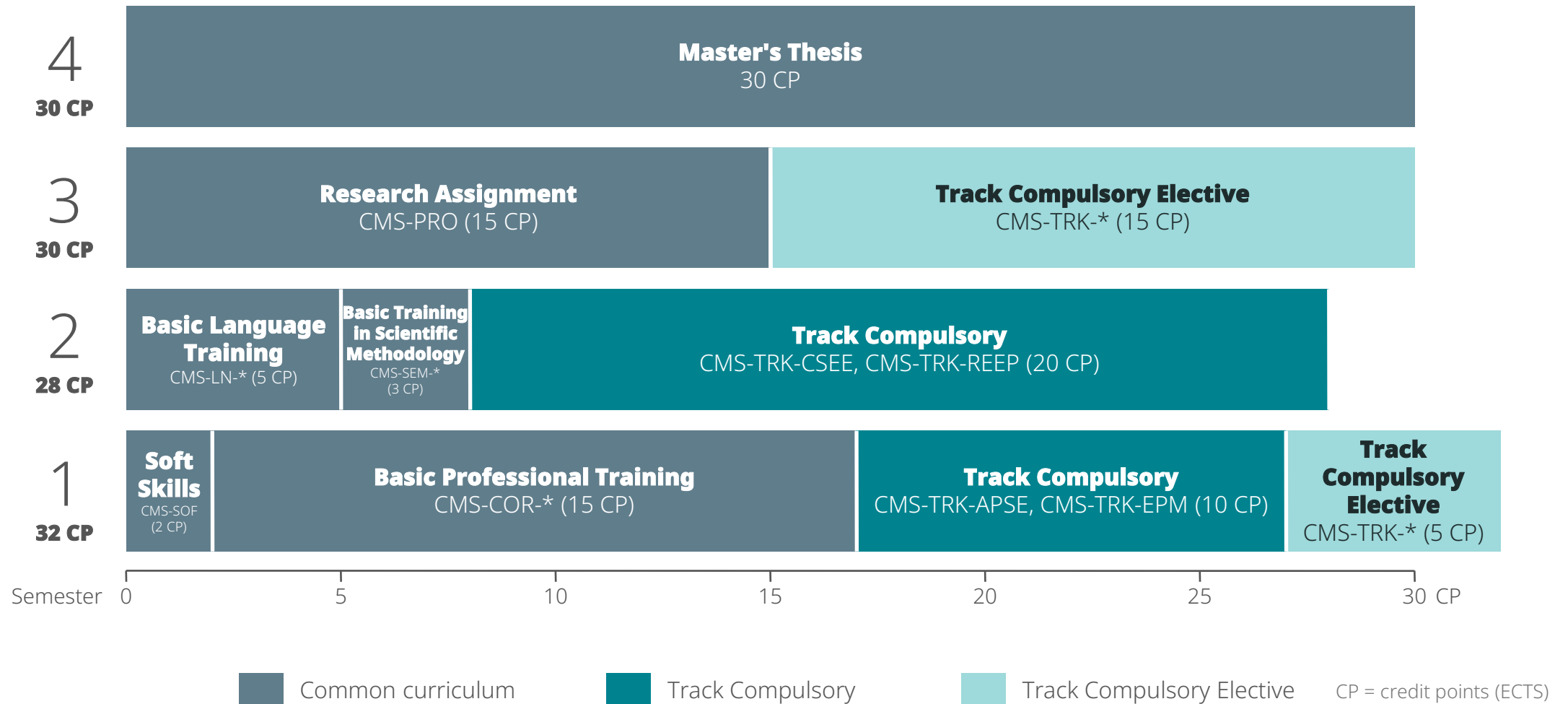
Software
implementation
for power
utilities



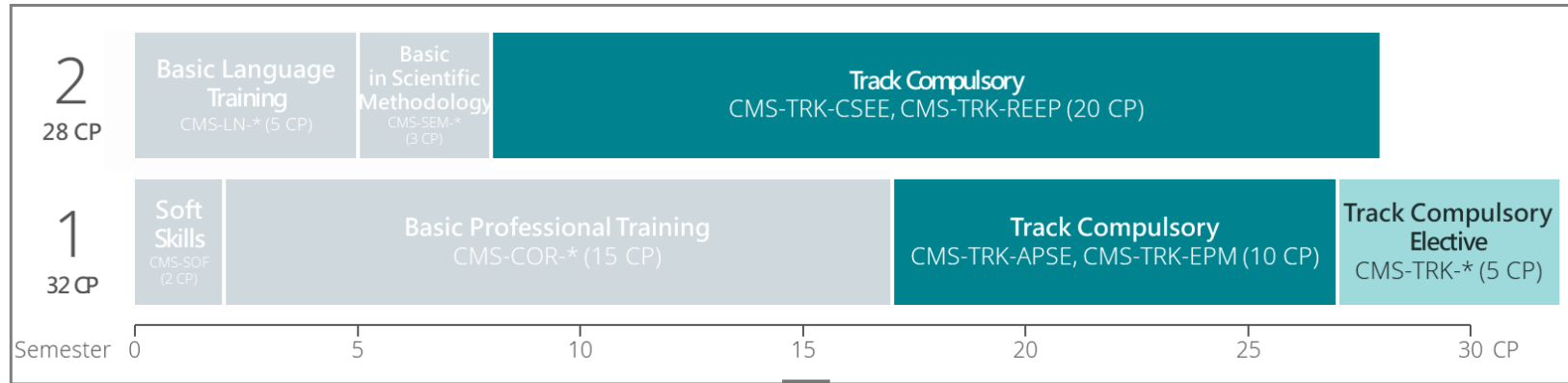
Data Science and
fundamental
modelling in energy
management

Study Plan

Computational Modeling in Energy Economics (CMS-CEE)



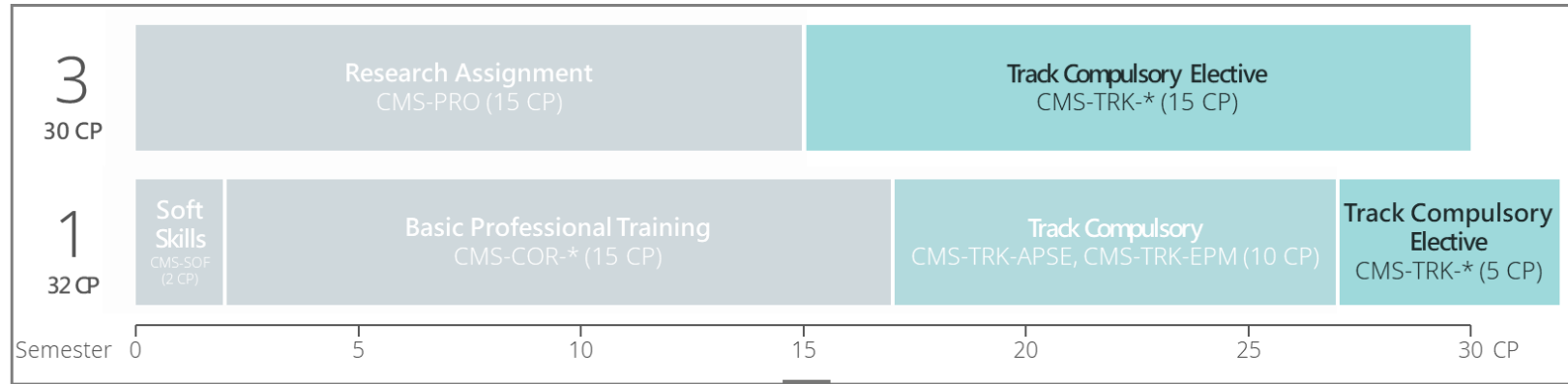
Study Plan: Energy Economics – Modules



Required Courses

CMS-TRK-APSE	Applied Power System Economics
CMS-TRK-EPM	Electric Power Markets
CMS-TRK-CSEE	Case Studies in Energy Economics
CMS-TRK-REEP	Resource Economics and Environmental Policy

Study Plan: Energy Economics – Electives



Optimization in Modern Electricity Markets

Advanced Problem Solving and Search

Scientific Programming - Advanced Concepts

Scientific Computing - Advanced Concepts

...

Choose from the catalogue

Track Mentors



Prof. Dominik Möst

Energy Economics

Faculty of Business and Economics

dominik.moest@tu-dresden.de ·

www.ee2.biz

Track CMS-VC

Visual Computing



Track Coordinator
Prof. Stefan Gumhold

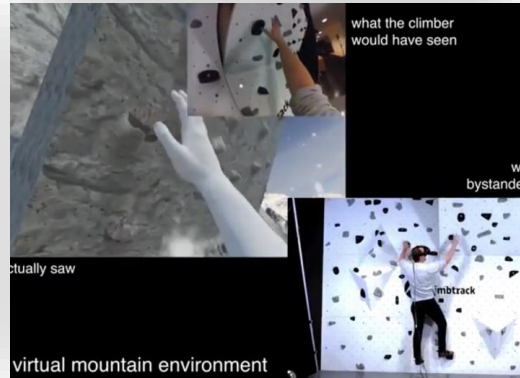
Visual Computing

Modeling and simulation enables Visual Computing applications that change the world



© Marvel Studios, 2018

SFX in Movies



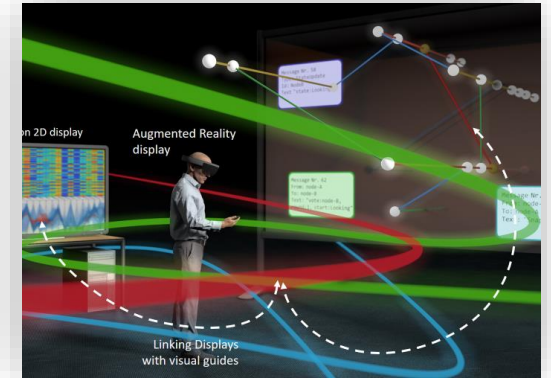
© DFKI, 2018

VR-based Training



© NVIDIA, 2018

Autonomous Driving



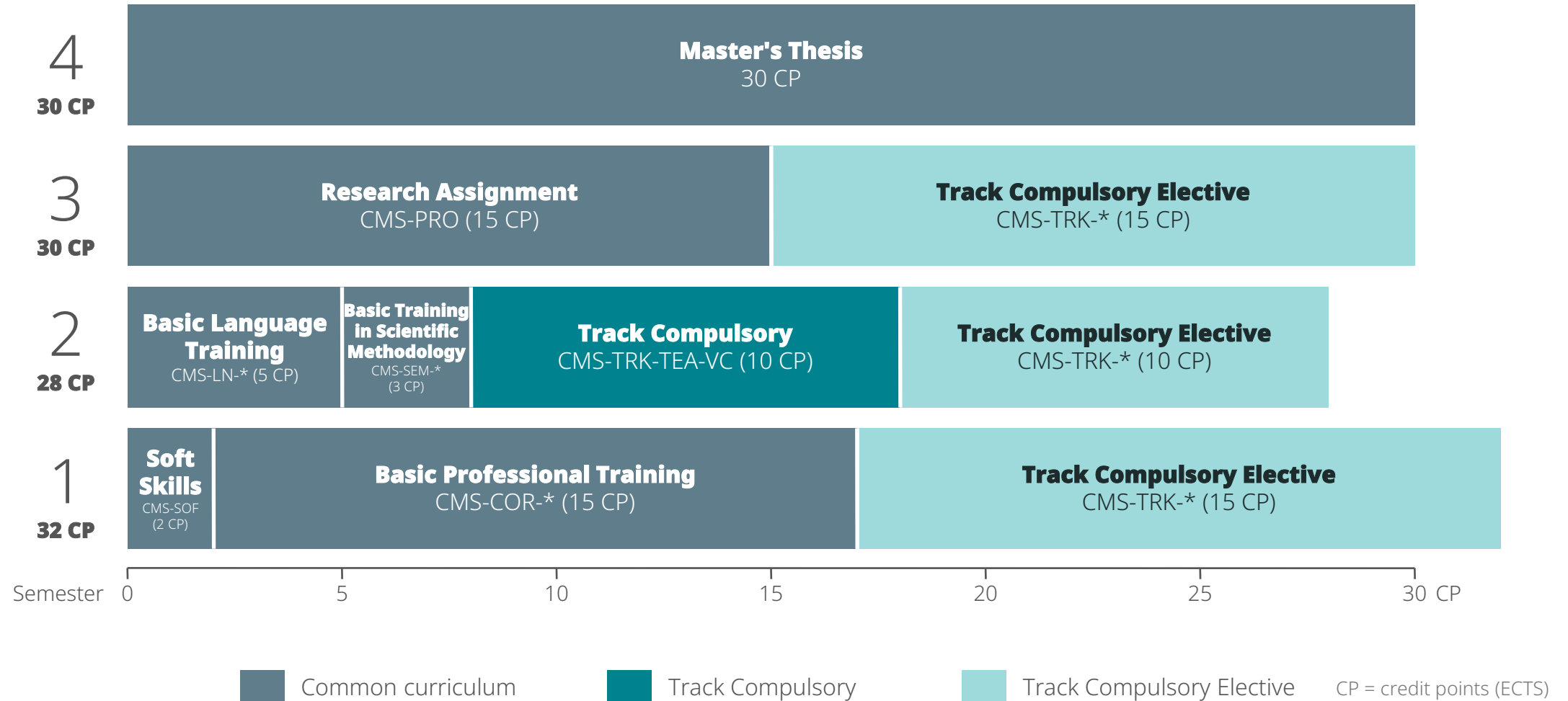
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Immersive Visual Analytics

... future systems need to combine techniques from computer vision, computer graphics, interaction design, and machine learning

Study Plan

Visual Computing (CMS-VC)



Sample Study Paths

- **Interactive Visualization**
CMS-COR-(VIZ,HPC,SAP)
CMS-TRK-(UI1,FCG,CAI|IIV,SciVis|FVR,CRC)
- **Image Synthesis and Understanding**
CMS-COR-(ML,NUM,SAP)
CMS-TRK-(CV,FCG|GMA|PBG,CRC,DLVFA)
- **3D Scene Understanding&Interaction**
CMS-COR-(ML,NUM,SAP)
CMS-TRK-(CV,UI1,FCG|GMA,UI2|CRC,DLVFA)
- **Interactive Steering and Exploration**
CMS-COR-(HPC,VIZ,SSE)
CMS-TRK-(UI1,FCG|SciVis,IMIR|FVR,CRC)
- **Augmented Reality**
CMS-COR-(VIZ,ML,SAP)
CMS-TRK-(UI1,FCG,CAI|GMA,UI2|FVR,TSP)
- **Visual Analysis**
CMS-COR-(VIZ,HPC,ML or SAP)
CMS-TRK-(UI1,FCG,CAI|SciVis,IIV|FVR,CRC)

1st Semester

Basic Professional Training

CMS-COR-HPC	High-Performance Computing	2/2/0/0	1PL	5cp
CMS-COR-ML	Machine Learning	2/2/0/0	1PL	5cp
CMS-COR-NUM	Basic Numerical Methods	2/2/0/0	1PL	5cp
CMS-COR-SAP	Stochastics and Probability	2/2/0/0	1PL	5cp
CMS-COR-SSE	Scientific Software Engineering	2/2/0/0	1PL	5cp
CMS-COR-VIZ	Data Visualization	2/2/0/0	1PL	5cp

Track Compulsory Elective (3)

CMS-TRK-CV	Computer Vision	2/2/0/0	1PL	5cp
CMS-TRK-FCG	Foundations of Computer Graphics	2/2/0/0	1PL	5cp
CMS-TRK-UI1	User Interface Engineering	2/2/0/0	2PL	5cp
CMS-TRK-CAI	Conversational Artificial Intelligence	0/0/2/0	1PL	5cp

2nd Semester

Track Compulsory

CMS-TRK-TEA-VC	Visual Computing Team Project	0/0/0/8	1PL	10cp
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Track Compulsory Elective (2)

CMS-TRK-GMA	Geometric Modeling and Animation	2/2/0/0	1PL	5cp
CMS-TRK-SciVis	Scientific Visualization	2/2/0/0	1PL	5cp
CMS-TRK-UI2	Advanced User Interfaces	2/0/2/0	2PL	5cp
CMS-TRK-IIV	Interactive Information Visualization	2/2/0/0	1PL	5cp
CMS-TRK-DDA	Digitization and Data Analytics	2/2/0/0	1PL	5cp
CMS-TRK-IMIR	Interactive Multimedia Information Retrieval	2/2/0/0	1PL	5cp

3rd Semester

Common curriculum

CMS-PRO	Research Assignment	0/0/0/12		15cp
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Track Compulsory Elective (3)

CMS-TRK-TSP	Touch Sensing and Processing	2/2/0/0	1PL	5cp
CMS-TRK-PBG	Physics-Based Graphics	2/2/0/0	1PL	5cp
CMS-TRK-FVR	Foundations of Virtual Reality	2/2/0/0	1PL	5cp
CMS-TRK-CRC	Computer- and Robot-Assisted Surgery	2/2/0/0	1PL	5cp
CMS-TRK-DLVFA	Deep Learning for Vision – Foundations&Apls	2/2/0/0	1PL	5cp

Track Mentors & Main Contributors

Track Mentors



Prof. Stefan Gumhold
Computer Graphics and Visualization



Prof. Raimund Dachzelt
Multimedia Technology, Interactive
Media Lab



Prof. Björn Andres
Machine Learning for Computer Vision

Main Contributors



Prof. Roberto Calandra
Machine Learning for Robotics,



Prof. Martin Weigert
ML for Spatial Understanding



Prof. Matthew McGinity
Immersive Media and Design



Prof. Stefanie Speidel
Translational Surgical Oncology

Computational Modeling and Simulation

Language Course Offerings

TUDIAS



TU Dresden Foreign Language Courses



TU Dresden Foreign Language Courses

Taking one language course as a module is **obligatory** as part of the basic compulsory elective area of the **CMS study regulations**.
Language courses are offered by TUDIAS.

Winter term / Summer term:

Enrollment starts on 1 October and 30 March.

Consider the dates for the levelling tests.

Places are limited!

Explanatory video provides information about further registration formalities.

https://tu-dresden.de/ing/informatik/studium/studienangebot/master-studiengaenge/computational-modeling-and-simulation/Courses_1

Contact: sprachausbildung.tu-dresden.de

Central Student Services, TU Dresden

Service and Support During Your Studies



Questions About Your Studies?

- What's the best way to study?
- How can I manage it all?
- Who is Selma?
- When and how can I go abroad?
- Where can I do an internship?



Central Student Information and Counseling Service

- Support with any uncertainties, doubts or problems at every stage of your studies
- Individual counseling
- Workshops
- Early warning system PASST?!

→ [Student Information and Counseling](#)



Admissions Office & International Office

- Re-registration
- Certificates
- Leave of absence
- De-registration

→ tud.de/imma

→ tud.de/international



Career Service

- Career and application counseling
- Key competencies workshops
- Support for starting your career
- Career fairs and company excursions

[→ Career Service](#)



Experience Abroad

International Office

- Studying abroad
- Erasmus+ and exchange programs

Leonardo-Sachsen

- Internships abroad

→ tud.de/international

→ tud.de/leonardo



Funding & Financing

- BAföG
- Deutschlandstipendium
- Part-time jobs alongside your studies

→ [Funding & Financing](#)



The Counseling Compass

Helps you find the right contacts for your questions about studying at TU Dresden.



[→ Counseling Compass](#)

ServiceCenterStudies (SCS)

All questions relating to your studies

Phone: +49 351 463-42000

Email: scs@tu-dresden.de

Service point: Fritz-Foerster-Bau (also for your CampusCard)

→ tud.de/scs



Nice to know...

- Drawing for first-year backpacks, register by Oct. 5.
- Enrollment Ceremony | October 8, 2026 | 3 p.m. | Auditorium Center
- Don't have your CampusCard yet? Just visit the SCS Servicepoint.



[→ More information](#)

A brief Overview

The iFSR – Your Student Representatives

Haris
Fachschaftsrat Informatik

What is the iFSR?



Services

We answer questions about your studies and are your representatives

Online Services

- Website
 - FTP Server with former exams
 - programming courses
- Social Media
 - Information about current events

Office (APB E017)

- items that can be rented
- printing service



Welcome to the website of the Student Council of Computer Science in Dresden

Your student council is here to empower your studies through
collaboration, help, and community engagement.

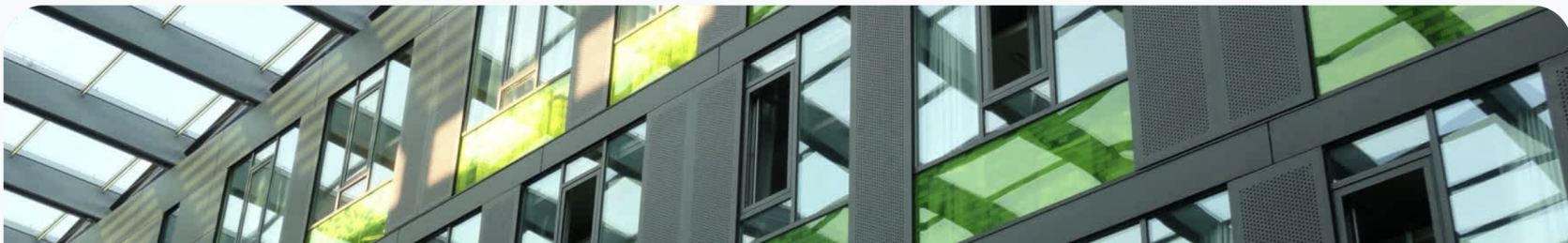
[learn more](#)

[contact us](#)

 [ESE Website](#)

 [Events](#)

 [News](#)



Events

- Weekly meeting in which the entire iFSR comes together
- Barbeques
- Game Nights in the Department
- First Semester Introduction week
- Supportive work for department events such as the long night of sciences and the university day
- ...



We want YOU!

Open meeting: every Monday, 6:30 pm, APB/1004

Office: APB E017

ifsr.de · fsr@ifsr.de



Computational Modeling and Simulation

Closing

CMS: Useful Links and Key Dates

What you need	Where	Link
Regulations 2026, module descriptions, study plan	CMS website → Regulations	CMS website
Courses, times and rooms per semester	Course catalogue (Lehrangebotskataloge)	Course catalogue
Module, course and exam registration; grades	Selma	selma.tu-dresden.de
Course material, announcements, language course enrolment	OPAL	bildungsportal.sachsen.de/opal
Exam dates, deadlines, requests	Examination Office (ticket system)	tu-dresden.de/.../examination-office
Time slots (DS 1–7) used in timetables	TU Dresden time grid	Zeitraster
Language courses and placement tests	TUDIAS Sprachausbildung	sprachausbildung.tu-dresden.de
Enrolment, Campuscard, certificates, general questions	ServiceCenterStudies (SCS)	tud.de/studium/beratung
Student council: old exams, events, advice	iFSR	ifsr.de

Key dates WS 2026/27

1 Oct language course enrolment (OPAL)
8 Oct TU Dresden Welcome Day
12 Oct lecture period start
~End Oct Selma registration opens
early Dec exam registration
20 Dec – 3 Jan winter break
6 Feb lecture period end
8 Feb – 6 Mar exam period

Other Points of Contact

Topic	Contact	Link
Study planning, track, research, career	Your mentor, track coordinator	see admission letter
Exams, registrations, recognition of credits	Examination Office	ticket system
Enrolment, re-registration, Campuscard, certificates	ServiceCenterStudies (SCS)	tud.de/studium/beratung · scs@tu-dresden.de
Arrival, visa, international tutoring, going abroad	International Office	tud.de/international
Doubts, difficulties, personal counselling	Central Student Counselling (ZSB)	tud.de/zsb/studienberatung
Housing, canteens, social and psychosocial counselling	Studentenwerk Dresden	studentenwerk-dresden.de
Jobs, internships, applications	Career Service	tud.de/career
Harassment, discrimination, violence	Complaints Office	antidiskriminierung
Old exams, events, student representation	iFSR (student council)	ifsr.de

Studying at TU Dresden

Work independently

Lectures cover the core but much of the learning happens in self-study. You can plan your own semester.

Ask questions early

Lecturers, tutors, office hours and OPAL forums are there for you. Ask questions! (But note that some people get 100s emails per day ;)

Respect deadlines

Registration periods and exam registrations are strict. Late registration is usually not possible.

Collaborate

Discuss exercises with others, form groups, reach out to your fellow students

Cite your sources

Every source, figure and piece of code you use must be cited. Plagiarism has serious consequences.

AI tools: check the rules

Rules differ between courses. Check the course information, ask the lecturer, and disclose use where required.



Have a
great Start!