



FAKULTÄT FÜR
BAU- UND UMWELT-
INGENIEURWISSENSCHAFTEN

RUB

COMPENG

INFORMATION FOR

FIRST SEMESTER STUDENTS

WS 2023/24

WE LIKE YOU, TOO :)

IMPORTANT ADDRESSES



CompEng Coordination Office
compeng-support@rub.de

Course Director:
Prof. Dr. rer. nat. K. Hackl

IC 03-711 Tel. 32-25729
hackl@am.bi.rub.de

Chief Coordinator:
Dipl.-Ing. J. Sahlmen
Office hours:
By appointment

IC 6-91 Tel. 32-22103
comp-eng@rub.de

Coordinators:
S. Jordan, B.A., B.A. C. Rauch
Office hours:
By appointment

IC 03-733 Tel. 32-22103

32-24273
compeng-support@rub.de

CE Examination Office

Head:
Prof. Dr. rer. nat. K. Hackl

IC 03-711 Tel. 32-25729
hackl@am.bi.rub.de

Office:
K. Schneider
Certificates, registration / cancellation of exams, FlexNow
Mon. 13:00 - 15:00, Tue 13:00 - 15:00, Thu 09:00 - 11:00

IC 5-63 Tel. 32-22575
examinationoffice-compeng@rub.de

CE Student Council
fs-compeng@rub.de

Student representative body

IC 03-161 Tel. 32-23078

Always updated information on contact persons and office
hours can be found at compeng.rub.de



Student Service Center (SSC)
stud-sekretariat@uv.rub.de

Re-enrolment, leave of absence,
student ID-card etc.

SSC 0-10 Tel. 32-22945

General Students' Committee (ASTA)
service@asta-bochum.de

Financial, legal and social counseling, attestation of official documents

Students' House SH 005 and SH 006 Tel. 32-22416

Equal Opportunities Officer
gleichstellung-bi@rub.de

For students:
Zuzan Azad

Inclusion Officer
pruefungsamt-bi@rub.de

R. Pape

IC 02-153 Tel. 32-23088

AKAFÖ
akafoe@akafoe.de

Academic Support Services:
Accommodation, catering,
financing, culture

Students' House SH
Ground floor, Room 062
Tel. 32-11413

Psychological counseling
psychberatung@rub.de

By personal appointment

Peer Quartier, Buscheyplatz 3,
44801 Bochum

**German courses:
Department German as a
Foreign Language (DAF)**
beate.hermans@rub.de

B. Hermans

Universitätsstraße 90, House 1,
Office 2.02 Tel. 32-23887

ASTA German courses

Intensive German courses
(with costs)

<https://interculturals-ev.de/de/>

International Office
rubiss@rub.de

International Students Services
(RUBiss)
Counseling for international
students

SSC 1-225; 229; 230; 235
[www.international.rub.de/
rubiss/kontakt.html.de](http://www.international.rub.de/rubiss/kontakt.html.de)

Copy Center SSC
druckzentrum@uv.rub.de

Xeroxing, printing

UV 01/44

FACULTY OF CIVIL & ENVIRONMENTAL ENGINEERING SCIENCES

CHAIRS AND PROJECT GROUPS

INFRASTRUCTURE & ENVIRONMENT

TRAFFIC ENGINEERING & MANAGEMENT
Prof. Dr.-Ing. Geistefeldt – IC 4-117

HIGHWAY & ROAD ENGINEERING
Prof. Dr.-Ing. Radenberg – IC 4-127

ENGINEERING HYDROLOGY & WATER RESOURCES MANAGEMENT
Prof. in Dr.-Ing. Flörke – IC 4-185

URBAN WATER MANAGEMENT & ENVIRONMENTAL
ENGINEERING
Prof. Dr.-Ing. Wichern – IC 4-59

ENVIRONMENTAL ENGINEERING & ECOLOGY IN CIVIL
ENGINEERING
Prof. Dr. rer. nat. Stolpe – IC 5-153

RESOURCE EFFICIENT BUILDING
Prof. Dr.-Ing. Annette Hafner – IC 5-159

ECOINFORMATICS
Jun.-Prof. Dr. van Dijk – IC 4-143





COMPUTATIONAL ENGINEERING

MECHANICS – MATERIAL SCIENCE
Prof. Dr. rer. nat. Hackl – IC 03-711

MECHANICS – CONTINUUM MECHANICS
Prof. Dr.-Ing. Balzani – IC 03-739

MECHANICS OF ADAPTIVE SYSTEMS
Prof. Dr.-Ing. Nestorović – ic 03-725

STRUCTURAL MECHANICS
Prof. Dr. techn. Meschke – IC 6-185

COMPUTING IN ENGINEERING
Prof. Dr.-Ing. König – IC 6-59

HIGH PERFORMANCE COMPUTING IN
ENGINEERING
Jun.-Prof. Dr. Vogel – IC 6-155

STRUCTURAL ENGINEERING

DESIGN & CONSTRUCTION OF CONCRETE STRUCTURES
Prof. Dr.-Ing. Mark – IC 5-185

STEEL, LIGHTWEIGHT & CONCRETE STRUCTURES
Prof. Dr. Sc. techn. Knobloch – IC 5-59

TUNNELING, UTILITY ENGINEERING & CONSTRUCTION
MANAGEMENT
Prof. Dr.-Ing. Thewes – IC 6-127

BUILDING MATERIALS
Prof. Dr.-Ing. Breitenbücher – IC 6-117

WIND ENGINEERING & FLUID MECHANICS
Prof. Dr.-Ing. Höffer – IC 5-127

Exam Office & Downloads

The Examination Office website offers a lot of useful information about organizing examinations. The download area also contains central documents, forms and timetables.

compeng.rub.de/ce/examination-office/examination-office.html.en



Study places at the RUB

Find out where you can study with your group, find rooms to participate in online courses, or simply find a quiet place to study on the following page:

studium.rub.de/en/learning-rooms





PROJECT OFFICE

BUILDING & ENVIRONMENT

In the Project Office Building and Environment you can write project and final theses. The PBU offers a well-equipped PC workstation, tips and tricks for scientific writing, support in the preparation / execution of presentations, professional exchange opportunities, a collegial working atmosphere and much more.

pbu.rub.de



e-learning

A functioning IT infrastructure and the corresponding software are essential for the success of your studies. On these pages you will find valuable tips on digital learning as well as competent support on topics such as VPN, e-mail, video conferencing, and much more:

*[https://zfw.rub.de/
it-services.rub.de](https://zfw.rub.de/it-services.rub.de)*





Sciebo

Sciebo is a cloud storage facility at all universities in NRW. With Sciebo, even larger amounts of data can be stored, accessed and edited from anywhere.

Further information and instructions the installment of the campus cloud can be found at it-services.rub.de/services/issi/sciebo.html.de





LoginID & Password

When you enrol, you'll receive your personal LoginID and PIN. Almost all online services of the RUB can be used with these access data. However, you must first set a new password via RUB eCampus: rub.de/ecampus/ecampus-webclient/login_studierende.html



E-Mail

When you start your studies at the RUB, you'll receive a personalized e-mail address from IT.SERVICES consisting of Vorname.Nachname@ruhr-uni-bochum.de or Vorname.Nachname@rub.de. You should always use this in your communication with all faculty and RUB institutions.

Check your e-mail box regularly - preferably daily - as all official messages from lecturers, fellow students, examination offices, the administration, the rectorate or other institutions are sent through the RUB mail system.

More info on the topic can be found at mail.rub.de/mail



Zoom

Via the Zoom video conferencing service, you can participate in courses that are offered online or hybrid, i.e. as a mixture of digital and face-to-face formats. More information and the possibility to download can be found here:

it-services.rub.de/bk/zoom.html.de



FlexNow

Flexnow is the examination management system of the Faculty of Civil and Environmental Engineering. You can register for all examinations via an online portal - and also de-register if necessary. You also have the option of calling up an up-to-date overview of your performance (Transcript of Records/ToR) at any time.

Detailed instructions on the installation and use can be found at flexnow.rub.de.





moodle is a digital learning platform that provides information and working materials on the degree programme and individual modules via virtual course rooms.

To register, go to moodle.rub.de. Simply use your login ID and password for your RUB account. In order to be kept up-to-date with any news concerning your courses and organizational details, one moodle course you should definitely enrol in is the *CompEng Info* course.



CURRICULUM MASTER

Computational Engineering

CE-WP01	Variational Calculus and Tensor Analysis	3	5	1
CE-WP02	Optimization Aided Design - Reinforced Concrete	4	6	2
CE-WP03	Adaptronics	3	5	2
CE-WP04	Advanced Finite Element Methods	4	6	2
CE-WP05	Computational Fluid Dynamics	4	6	2
CE-WP06	Finite Element Methods for Nonlinear Analyses of Materials and Structures	2	3	2
CE-WP08	Numerical Methods and Stochastics	4	6	2
CE-WP09	Numerical Simulation in Geotechnics and Tunneling	4	6	2
CE-WP10	Object-oriented Modeling and Implementation of Structural Analysis Software	2	3	2
CE-WP11	Applied Computational Simulations of Structures	4	6	2
CE-WP12	Computational Plasticity	4	6	2
CE-WP16	Parallel Computing	4	6	2
CE-WP25	High-Performance Computing on Multicore Processors	4	6	2
CE-WP28	Machine Learning: Supervised Methods	4	6	2
CE-WP13	Advanced Control Methods for Adaptive Mechanical Systems	4	6	3
CE-WP14	Computational Wind Engineering	2	3	3
CE-WP15	Design Optimization	4	6	3
CE-WP17	Numerical Methods for Conservation Laws	4	6	3
CE-WP18	Safety and Reliability of Engineering Structures	4	6	3
CE-WP19	Computational Fracture Mechanics	4	6	3

WP

Compulsory

Optional

Courses

35 CP

1st, 2nd & 3rd semester

	CE-WP20	Materials for Aerospace Applications	4	6	3
	CE-WP26	High-Performance Computing on Clusters	4	6	3
	CE-WP24	Case Study A	2	3	2+3
	Minimum Subtotal CP: Compulsory optional courses				35

1 st , 2 nd & 3 rd semester	W Optional Courses 16 LP	CE-W01	Training of Competences (part 1)	4	4	1
		CE-W09	Scientific C++ Programming (Basics)	2	3	1
		CE-W02	Training of Competences (part 2)	4	4	2
		CE-W04	Recent Advances in Numerical Modeling and Simulation	2	2	2
		CE-W06	Advanced Constitutive Models for Geomaterials	2	3	2
		CE-W10	Scientific C++ Programming (Advanced)	2	3	2
		CE-W05	Simulation of Incompressible Turbulent Flows with the Finite Volume Method	2	3	3
		CE-W08	Quantum Computing	2	3	3
		CE-W03	Case Study B	2	3	2+3
			other relevant courses of the faculty or from engineering faculties of other universities			
	Minimum Subtotal CP: Optional Courses			16		

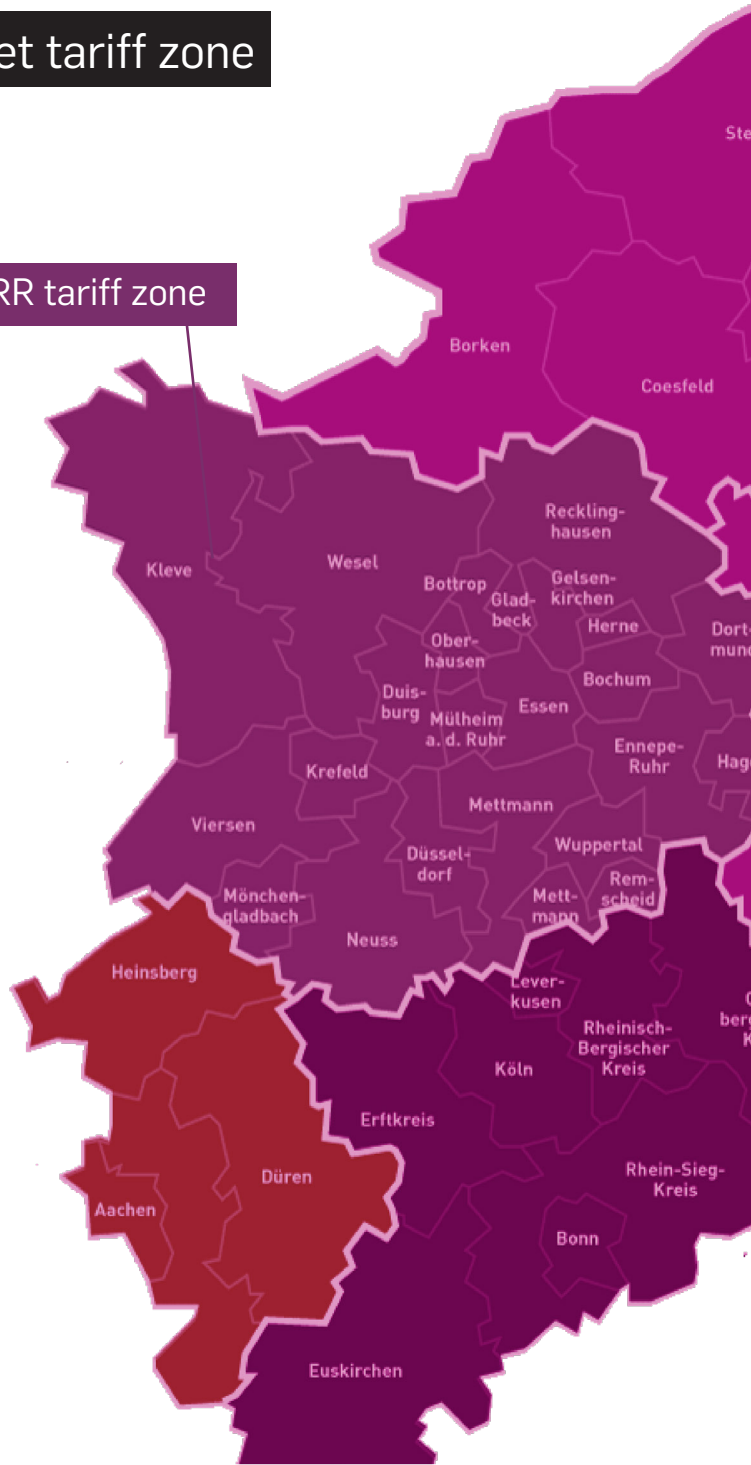
4 th Semester	M Master-Thesis	CE-M	Master Thesis	-	30	4
		Subtotal CP: Master Thesis				30

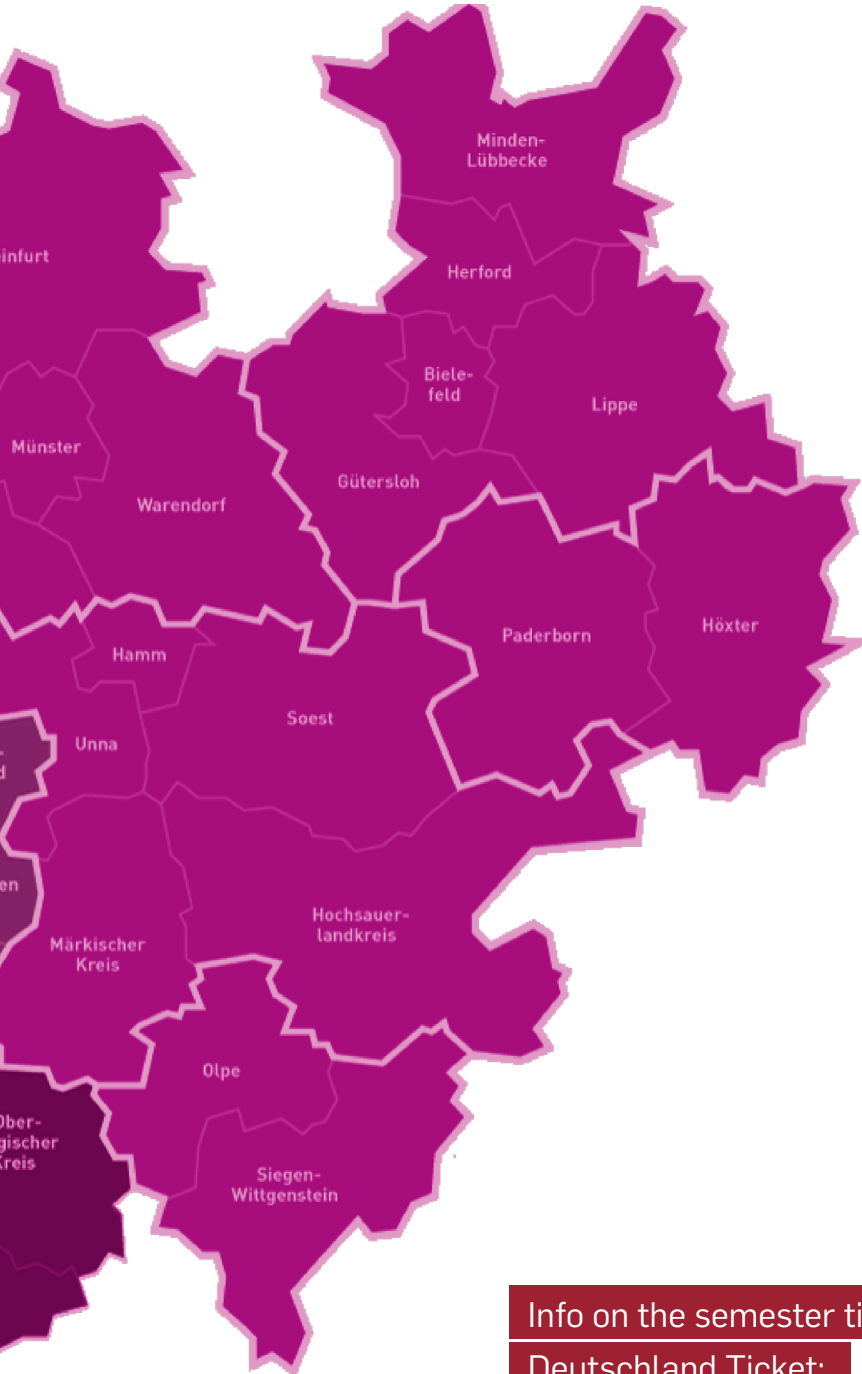
		Subtotal CP: Compulsory Courses		39	
		Subtotal CP: Compulsory optional courses		35	
		Subtotal CP: Optional courses		16	
		Subtotal CP: Master Thesis		30	
		Sum CP in total:		120	

Stand: September 2023

NRW-Ticket tariff zone

VRR tariff zone





Info on the semester ticket /
Deutschland Ticket:

<https://studium.rub.de/en/turn-your-semester-ticket-deutschland-ticket>



HELPFUL OFFERS FOR YOUR STUDIES

HOMEPAGE DER RUHR-UNI

The Ruhr-Uni homepage offers important information about studying as well as interesting facts and exciting news about campus life.
rub.de



INTERNATIONAL OFFICE

Information on stays abroad, financing options and the corresponding counselling can be found at
international.rub.de/en



CAREER SERVICE

The Career Service advises on questions regarding applications, job search, internships and career entry.
studium.rub.de/de/willkommen-beim-career-service



JOB CENTER UNIVERSITY TEAM

The university team of the Employment Center offers support, e.g. if you have doubts about your studies or job prospects:
studium.rub.de/de/das-hochschul-team-der-agentur-fuer-arbeit-bochum



IT-COURSES CHAIR OF COMPUTING IN ENGINEERING

On the pages of the Chair of Computing in Engineering you will find regular dates for helpful IT courses, e.g. in software applications such as Latex and Excel.
inf.bi.rub.de



RUB WRITING CENTER

The Writing Centre offers many helpful courses on the topic of writing, correct citation, plagiarism avoidance and much more.
zfw.rub.de/sz/angebote/studierende/übersicht



COPY CENTER

In the Copy Centre in the SSC you can submit your print jobs (e.g. study papers) or print, copy, scan and bind them yourself on the machines.
druckzentrum.rub.de



FURTHER OFFERS

Further helpful offers that make studying easier can be found here:
studium.rub.de/de/service-einrichtungen-und-angebote-fuer-studierende



Super
Helpful

FREE WIFI

AT THE RUB

Use the eduroam Configuration Assistant Tool (eduroam CAT) for the simple configuration of common terminal devices. Just scan the QR code below and follow the instructions.

eduroam is the WPA2-encrypted access to the wifi network at the RUB. Only the access data, the loginID and the password (which has to be set via eCampus) are required for the connection. eduroam is a worldwide project. Access to the wifi is possible with the same settings at every university that has the eduroam radio network.

Further information and detailed instructions can be found at

<https://noc.rub.de/web/wlan>



FREE WIFI

1st SEMESTER TIMETABLE *

for the winter semester 2023/2024

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 – 9:00	Finite Element Methods in Linear Structural Mechanics	Modern Programming Concepts in Engineering	Modern Programming Concepts in Engineering		Variational Calculus and Tensor Analysis
9:00 – 10:00	HIC Prof. Meschke	IC 04-628 Prof. König	IC 4-630 Prof. König		HZO 90 Dr.-Ing. Hoppe
10:00 – 11:00	Exc: Finite Element Methods in Linear Structural Mechanics	Computer-based Analysis of Steel Structures	Mathematical Aspects of Differential Equations	Mathematical Aspects of Differential Equations	
11:00 – 12:00	HIC Prof. Meschke	IC 04-408 Prof. Knobloch	NC 06-99 Prof. Röhrlé	NB 5-99 Prof. Röhrlé	
12:00 – 13:00				Computer-based Analyses of Steel Structures	Variational Calculus and Tensor Analysis
13:00 – 14:00					HZO 90 Dr.-Ing. Hoppe
14:00 – 15:00	Mechanical Modeling of Materials	Mechanical Modeling of Materials			
15:00 – 16:00	HZO 90 Prof. Balzani / Dr. Kozinow	HZO 90 IC 04-630 (CIP-Pool) Prof. Balzani			



Optional German Language Courses (Training of Competences) are offered by the DaF-Department. Please see their website for more information:

<http://www.daf.rub.de/index.html.en>

AND

WHAT

ELSE?



INSTAGRAM

[@compeng.rub](#)
[@bauen.umwelt.rub](#)
[@ruhrunibochum](#)

STAY IN TOUCH

[rub.de/alumni](#)
(Group BI-/UI)

MOVIES

[skf-kino.de](#)

SPORTS

[hochschulsport-bochum.de](#)

LEARN A LANGUAGE

[zfa.rub.de](#)

ONLINE

[compeng.rub.de](#)
[fbi.rub.de](#)
[news.rub.de](#)

CULTURE

[mz.rub.de](#)
[akafoe.de/kultur](#)

RECREATION

[boga.rub.de](#)

MUSIC & NEWS

[ctdasradio.de](#)

SUSTAINABILITY

[nachhaltigkeitsforum.wordpress.com](#)



CE STUDENT COUNCIL

WHAT WE DO:

- Communication of students' interests in councils and towards lecturers
- Student counseling
- Organization of parties and events
- Public Relations
- Student recruiting
- Language tandems

GET IN TOUCH:



IC 03/161



fs-compeng@rub.de



[@compeng_studentcouncil](https://www.instagram.com/compeng_studentcouncil)



[ComputationalEngineering](#)





CHECKED

ALREADY?

- Join CE Welcome Program
- Enrolment, health insurance, transfer of social fee
- In RUB eCampus: Change password, print NRW ticket + proof of enrolment (Studienbescheinigung), change default address
- City registration
- Open bank account
- Instruct your health insurance company to report your insurance status digitally to the RUB
- Register for DAF German Courses
- Register in moodle and join the group 'CompEng Info'
- Visa extension

