

RUB

RUHR-UNIVERSITÄT BOCHUM

STUDYING PHYSICS AT RUB

Niklas Fornefeld, study advisor for international students



Physik und Astronomie
from matter to materials

Overview

- The faculty of Physics and Astronomy
- Your study advisors
- Our study program
- Further support services
- The next steps

Note: you will receive these slides at the end of the interview!





The Faculty of Physics and Astronomy at RUB

- 24 professors
- approx. 800 students overall
- approx 40 M.Sc. students graduating/year
- approx. 25 PhD students graduating/year

**Nuclear +
Particle Physics**

**Solid State
Physics**

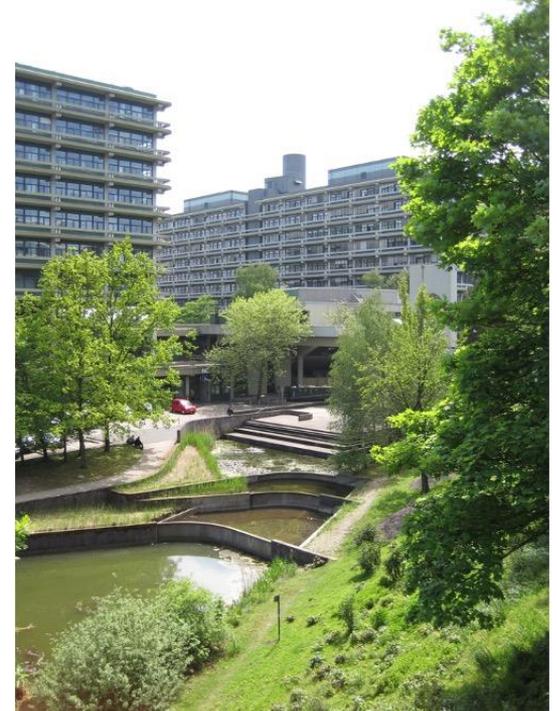
Plasma Physics

**Astronomy/
Astrophysics**

**Neuro-
informatics**

Didactics

Biophysics



The Faculty of Physics and Astronomy at RUB

Student advisory service at the faculty



Dr. Niklas Fornefeld
Student advisor for
international students
- your first point of contact



Dr. Ivonne Möller
Advises on general
questions concerning
examination regulations



We ask all students to contact us by email:
master-international@physik.rub.de

Our Master's Program



First: you are all admitted to the program, and you can enroll after this interview.

The requirements can be taken during study!

General Structure:

- Two year program = four semesters (standard period of study)
- Approx. 30 credit points (CP) earned per semester
- **First year:** study phase (60 CP)
- **Second year:** preparatory modules + Master's thesis (60 CP)



Our Master's Program



BUT....

...two years are the standard period of study according to examination regulations

...no one from the faculty checks the achievements per semester

...if less than 30 CP are acquired, this has no consequences

...it is possible to study for more than two years (the study period is not limited)

→ Your individual plan can differ from the „official“ and standardized regulation

Our Master's Program

General Structure: **First Year**

Five areas:

- Experimental physics (9-18 CP)
- Theoretical physics (6-18 CP)
- Your focus area (15-25 CP)
- Minor subject (5-18 CP)
- Key qualifications (5-15 CP)

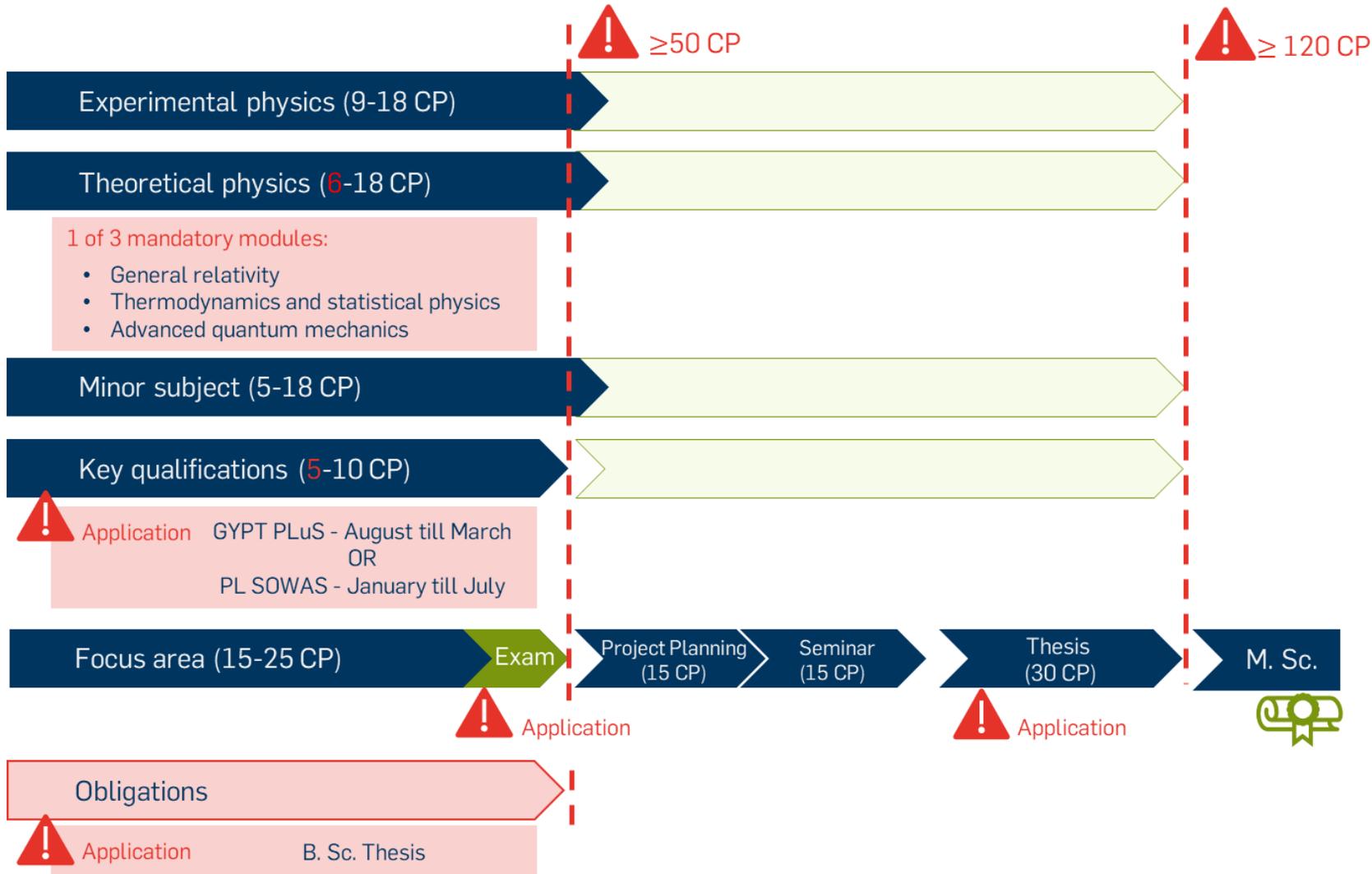
Complete list of offered courses

→ see [course catalogue](#)

General Structure: **Second Year**

Preparation and writing of your master's thesis

- Three compulsory modules:
 - Knowledge of Methods and Project Planning (15 CP)
 - Project seminar for the Master's thesis (15 CP)
 - Master's thesis (30 CP)

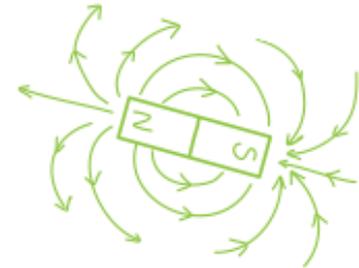


Requirements for International Students

Requirement 1:

Introduction to quantum mechanics and statistical physics (6 CP)

- At almost all international universities, the scope in the area of theoretical physics is smaller, so that many applicants receive this requirement.
- The grade of the exam does not count towards the Master's grade.



Requirements for International Students



Requirement 2:

The Bachelor thesis (12 CP, 10 weeks)

- At our faculty the complete 6th semester is reserved for the bachelor thesis.
- At almost all international universities, the scope is smaller, so that many applicants receive this requirement.
- However, this requirement serves not only to fulfil the examination regulations, but also gives you the *opportunity to get familiar with our faculty*.
- The grade of the Bachelor's thesis **does not count!** towards the Master's grade.

Requirements for International Students

„Can I start my studies, even though I got obligations?“

Yes!

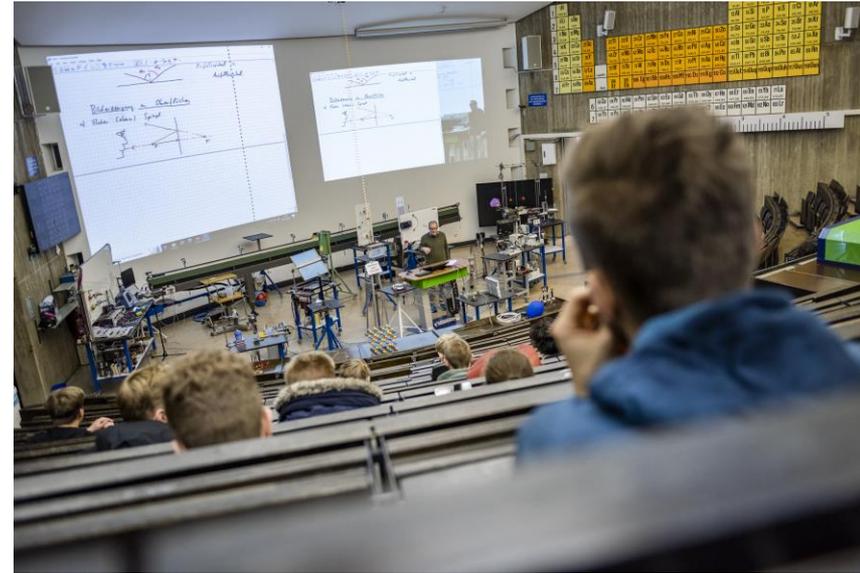
- Conditions must be proven at the latest upon admission to the Master's thesis.
- Your work in regard to the conditions does not have any effect upon your Master's program and grades, etc. will not be counted towards your Master's degree.

Teaching format in the summer semester

It is planned to hold all courses in attendance on the campus.

The courses start 13th April 2026.

You have to be in Bochum **latest** on 30th April 2026
– otherwise you have to reapply for the summer term.



The course catalogue

RUHR-UNIVERSITÄT BOCHUM **Select summer term 2026** English

eCampus Information

Semester

Information

- Study guide
- Audiences
- Units
- Programme structure
- Persons
- Rooms
- Search

Back

GENERAL VIEW XVI. FAKULTÄT FÜR PHYSIK UND ASTRONOMIE

- XVI. Fakultät für Physik und Astronomie
 - Vorkurs 2
 - Tutorien
 - Bachelor of Science**
 - Master of Science**
 - 2-Fach Bachelor
 - Master of Education
 - Seminare für Doktorandinnen und Doktoranden
 - Für Hörerinnen und Hörer aller Fakultäten, Optionalbereich 12
 - Lehrveranstaltungen für Studierende mit Physik als Nebenfach 22

XVI. Fakultät für Physik und Astronomie

- Master of Science
 - Compulsory Courses 1
 - Elective Core Courses 13
 - Courses in Physics Major
 - Astronomy, Astrophysics 9
 - Nuclear and Particle Physics 1
 - Plasma Physics 3
 - Solid State Physics 1
 - Biophysics 1
 - Elective Courses (Soft Skills) 2

For obligation: QM lecture

160117	Introduction to Quantum Mechanics and Statistics	Eremin, Ilya	Lecture
160118	Einführung in die Quantenmechanik und Statistik (Übung)	Eremin, Ilya	Exercise

The course catalogue

Items per page 25 (Items 1 - 9 of 9)

Course number	Title	Lecturers	Type
160611	Cosmology (Lecture)	Hildebrandt, Hendrik	Lecture
160612	Cosmology (Exercises)	Hildebrandt, Hendrik	Exercise
160613	Radio Astronomy	Adebahr, Björn	Lecture

COSMOLOGY (LECTURE)

COSMOLOGY (EXERCISES)

Common information | Event details | Registration procedure | Exams

Common information | Event details | Registration procedure | Exams

Course number: 160611
Title: Cosmology (Lecture)
Event type: Lecture
Term: WS 22/23
Semester weekly hours [SWS]: 3

Course number: 160612
Title: Cosmology (Exercises)
Event type: Exercise
Term: WS 22/23
Semester weekly hours [SWS]: 1

$3 + 1 = 4CP$

Support Services

General Services:

- Our Admissions Office

If you have questions about your admission, please contact the admissions office directly.

- Registrar's Office

If you have problems or questions about issues such as paying the social contribution fee, semester spent on leave etc. the student office is responsible.

- RUBiss team of the International Office

The RUBiss team provides support in social, cultural and university matters as well as in formal and legal matters. We support you throughout your studies.



Welcome and onboarding events

Preparatory webinar (by international office)

The webinar covers the following topics, among others:

- Organisational matters
 - Online enrolment
 - Health insurance
 - Financing your studies
 - Accommodation in Bochum
 - etc.
- Studying at RUB
 - RUB tools
 - Services and offers of the International Office for international students
 - Student advisory services
 - etc.

The next preparation webinars will take place as follows:

- Monday, February 16, 2026, 11:00 a.m. (UTC +1; German time) in German
 - [You need to register via this link!](#)
- Friday, February 20, 2026, 11:00 a.m. (UTC +1; German time) in English
 - [You need to register via this link!](#)

We look forward to meeting you online!

[Weblink: Preparatory webinar](#)



Introductory Week M.Sc. Physics

MONDAY, 13TH OF APRIL

9:00 - 11:00	Breakfast	Pick up at "HZO" (see below)
11:00 - 12:00*	Master welcoming event	Lecture hall HNB
12:00 - 13:30	Lunch together	Dining hall
13:30 - 15:30*	Introduction to eCampus/Moodle	NB 4/158
15:30 - 16:30	Welcome lounge	NB 03 South
16:30 - open end	Campus-Tour	Start: NB 03 South

TUESDAY, 14TH OF APRIL

9:00 - 10:30*	Life and offers at RUB	NB 4/158
10:30 - 12:30	Lab tours	Start: NB 03 South
12:30 - 14:00	Lunch together	Dining hall
14:00 - 16:00*	Introduction of lecturers	NB 4/158
16:00 - open end	Game night	Start: NB 03 South
15:30 - open end**	Joint trip to Bochum Planetarium	Start: NB 03 South

THURSDAY, 16TH OR FRIDAY, 17TH OF APRIL

18:00 - open end	Pub crawl	Start: Bochum main station
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The M.Sc. Mentoring-Team

Regular meetings:

- Everyday life on the Campus
- Dos and Don'ts
- Advice on schedule building
- Guidance on how to use E-campus, Moodle, etc.
- One-to-one mentoring sessions
- Strategies to make the most of your time in your masters
- Socializing and participating in campus life



Allan Genú

The M.Sc. Mentoring-Team

Moodle course



★ M.Sc. Mentoring (Physics)
Physik und Astronomie



The image shows a WhatsApp group invite card. At the top, there is a green header with a red circular profile picture of a person. Below the header, the text reads 'Master of Science' and 'WhatsApp-Gruppe'. A large QR code with a WhatsApp logo in the center is displayed. At the bottom, the text 'WhatsApp M.Sc. community' is written in a blue font.

Note: if additional documents are needed for the visa application (in case of problems with the visa) please contact the **International office**



- Support letter for landlords (accomodation on privat housing market)
- Support letter for visa (English proficiency etc.)
- ...

Next steps

- Enrollment
(see application portal)
- Apply for visa
- Organize accommodation
- Register to Mentoring offers
(Moodle, WhatsApp-Channel, etc.)
- Master Introductory Meeting
- Start: 13th October 2025 (start of lectures)
- **Enjoy your studies at the RUB**





Welcome again and
we look forward to your questions