



International Master Course Physics



Brandenburgische
Technische Universität
Cottbus - Senftenberg



Faculties

FACULTY 1

Mathematics, Computer
Science, Physics, Electrical
Engineering and Information
Technology

FACULTY 2

Environment and Natural
Sciences

FACULTY 3

Mechanical Engineering,
Electrical and Energy Systems

FACULTY 4

Social Work, Health Care and
Music

FACULTY 5

Business, Law and Social
Sciences

FACULTY 6

Architecture, Civil Engineering
and Urban Planning



Welcome to the Institute of Physics @ BTU!



Prof. H. Schenk
Micro- and Nano Systems
BTU + Fraunhofer IPMS



Prof. G. Seibold
Computational Physics



Prof. I. Flege
Applied Physics and
Semiconductor Spectroscopy



Prof. D. Gorelova
Computational Materials
Modeling



Prof. C. Wenger
Semiconductor Materials
BTU + IHP



Prof. C. Ruffert
BTU + Fraunhofer IPMS



Prof. I. Fischer
Experimental Physics and
Functional Materials



Prof. A. Matkovic
Nanostructures, 2D-Systems
and Layers

International Master Course Physics: Essential Infos

<u>Specialization Phase</u>		Research Phase	
<i>Semester 1</i>	<i>Semester 2</i>	<i>Semester 3</i>	<i>Semester 4</i>
• <u>Advanced Seminar</u> (6 LP) • <u>Specialization</u> (18 LP) • Minor <u>Subject</u> (6 LP)	• <u>Advanced Seminar</u> (6 LP) • <u>Specialization</u> (12 LP) • Minor <u>Subject</u> (6 LP) • General Studies (6 LP)	Research Project (30 LP) <i>(<u>Preparation of the research project for the master thesis</u>)</i>	Master Thesis (30 LP)
<i>30 CP</i>	<i>30 CP</i>	<i>30 CP</i>	<i>30 CP</i>

International Master Course Physics: Essential Infos

Timetable:

You are here: [Home](#) → [Courses](#) → [Timetables for Study Programmes](#)

[Search for Lectures](#)

[Timetables for Study Programmes](#)

[Study Programme Plans \(List\)](#)

[Lectures today](#)

[Room Use](#)

[Online-Evaluation](#)

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Lectures according to Curricula (Winter 2026/27)

→ [Help for Search](#)

Search Criteria

Curricula

Physics Master , PO 2021

[Clear Entry](#)

From Semester

To Semester

Parallelgroups

Category

Select all

☒

Only explicate terms

☐

An input of **Term limits** has the following effect:

Only lectures with Term limits for the chosen curricula will be taken into consideration.

A lecture will be selected, when there is an intersection between the Term limits of your input and the lecture.

Warning: When you specify Term limits, lectures without Term limits will be excluded from the presentation.

[Start Search](#)

[Clear Form](#)

International Master Course Physics: Essential Infos

Timetable (complete): <https://www.math.b-tu.de/perl-ip/planung.cgi>

Lectures of faculty 1 within the winter term 2026/2027

Lehrveranstaltungen der Fakultät 1 im Wintersemester 2026/2027

Übersicht über sämtliche Lehrveranstaltungen

Studiengang (course)	Semester	
Physics/Master	1.Fachsemester	Clear Plan

select: Physics/Master

finally click here

International Master Course Physics: Essential Infos

Stundenplan Wintersemester 2026/2027 : Physics/Master, Masterstudium

Stand: 29. September 2026

Zeit	Montag	Dienstag	Mittwoch	Donnerstag	Freitag
1. Block					Functional material systems for micro sensors and actuators SE, H.Schenk
2. Block		1.Data exploration and system management using artificial intelligence/machine learning VL, VG1C/03, I.Jablonski 2.Waves and Instabilities in Fluids VL, HG0.18, R.Borcia 3.Advanced Seminar Experimental Physics SE, LG1A/121, M.Kot	1.Solid State Theory VL, LG10/212, G.Seibold 2.Scientific Computing VL/UE, HG3.45, M.Breuß	1.Nanocatalysis - Fundamentals and Applications UE, LG1A/121, L.Schewe R.Tschammer 2.Computational Quantum Physics VL, HG0.18, D.Gorelova	Mathematical Optimization Techniques and Applications UE, LG1A/304, S.Zell
3. Block	1.Wireless Sensor Networks: Concepts, Protocols and Applications VL/UE, ZHG/SR1, K.Piotrowski, J.Maj 2.General Theory of Relativity VL, HG2.44, Wulf	1.Fundamentals in Power Electronics VL/SE, LG3A/324, G.Möhlenkamp 2.Scientific Computing VL/UE, HG0.18, M.Breuß 3.Light and Matter: Introduction VL, HG0.19, I.Fischer 4.Data exploration and system management using artificial intelligence/machine learning PR, VG1C/03, I.Jablonski 5.Experiments in Aerodynamics and fluid mechanics VL, AZFD/3.22, C.Egbers, M.Hamede 6.Nanocatalysis - Fundamentals and Applications VL, LG1A/121, L.Schewe, R.Tschammer	1.Nanocatalysis - Fundamentals and Applications VL, LG1A/121, I.Flege 2.Physics of Modern Devices VL, LG1A/304, L.Augel 3.Solid State Theory SE, LG10/212, G.Seibold	1.Computational Quantum Physics UE, HG0.18, D.Gorelova 2.Waves and Instabilities in Fluids UE, LG1A/121, R.Borcia 3.Light and Matter: Introduction UE, HG0.19, I.Fischer 4.Semiconductor Physics for Applied Quantum Structures VL, LG10/212, C.Wenger	Mathematical Optimization Techniques and Applications VL, LG1A/304, J.Weiland
4. Block	1.Journal Club Light and Matter: Introduction SE, LG10/212, I.Fischer 2.Wireless Sensor Networks: Concepts, Protocols and Applications VL/UE, ZHG/SR1, K.Piotrowski, J.Maj 3.Applied Spectroscopy OS, HG0.18, I.Flege	General Theory of Relativity UE, HG2.44, Wulf	1.Semiconductor Technology VL/UE, HG0.17, Kahmen 2.Solid State Theory UE, LG10/212, D.Grigorovich 3.Experiments in Aerodynamics and fluid mechanics UE, AZFD/2.32, M.Hamede	1.Image based measurement techniques for aerodynamics UE/PR, AZFD/3.22, A.Schröder (B-Woche) 2.Antennas I VL, HG0.18, I.Ndip 3.Image based measurement techniques for aerodynamics VL, AZFD/3.22, A.Schröder (A-Woche) 4.Advanced Seminar Theoretical Physics "Special Topic in Superconductivity" SE, LG10/212, C.Mahato 5.Nano-Photonics SE, HG0.19, I.Fischer	1.Interfacial Engineering and 2D Semiconductors for Post Moore Nanoelectronics VL, HG0.20, I.Flege 2.Antennas I UE, HG0.18, R.Stöcker
5. Block	Applied Spectroscopy OS, HG0.18, I.Flege	Fundamentals in Power Electronics VL/SE, LG3A/324, G.Möhlenkamp (A-Woche)	Mathematical Optimization Techniques and Applications VL, LG1A/HS1, J.Weiland	1.Renewable Energy Technologies for Power Supply VL, GH, L.Röntzsch 2.Physikalisches Kolloquium KOL, ZHG/SR1, I.Flege 3.Laboratory Techniques and Metrology VL, HG2.44, S.Verma	
6. Block	Physics of Modern Devices UE, ZHG/SR3, L.Augel		CFD Seminar SE, LG3A/324, H.Schmidt	Laboratory Techniques and Metrology UE, HG2.44, S.Verma (B-Woche)	

Blockveranstaltungen/Veranstaltungen nach Vereinbarung:
[320552 G.Möhlenkamp: Fundamentals in Power Electronics](#)
[152111 C.Wenger: Semiconductor Physics for Applied Quantum Structures](#)
[150470 I.Fischer: Oberseminar Experimentalphysik und Funktionale Materialien](#)

International Master Course Physics: Essential Infos

When and how to register for the modules?

- Register online within the first 3 weeks of the semester (05.10.26 – 25.10.26):

<https://www.b-tu.de/qispos11/rds?state=user&type=0>

- You may cancel the registration up to one week before the begin of the examination period

Exception: Modules with continuous assessment (e.g. seminars) can only be cancelled within the first 3 weeks of the semester

see also: [Semester Timetable](#)

Entrance to the Online-Portal

Please choose the entrance to the Online-Portal based on your enrolment number

Enrolment number 7-digit	Enrolment number 6-digit
<i>Example 36 33 887</i>	<i>Example 36 30 17</i>
Entrance to the Online-Portal	Entrance to the Online-Portal



International Master Course Physics: Essential Infos

E-learning-platform moodle

<https://www.b-tu.de/en/multimediazentrum/etools/learning-platform-moodle>



Welcome to the digital learning environment of BTU

Moodle-BTU is available to all teachers and students at the BTU. The learning management platform offers numerous possibilities for the digital enrichment of university teaching, from the distribution of teaching materials to electronic tests and the motivation/activation of students.

[Log in](#)



International Master Course Physics: Advanced seminar

<u>Specialization Phase</u>		Research Phase	
<i>Semester 1</i>	<i>Semester 2</i>	<i>Semester 3</i>	<i>Semester 4</i>
<u>Advanced Seminar</u> (6 LP) <u>Specialization</u> (18 LP) - Minor <u>Subject</u> (6 LP)	<u>Advanced Seminar</u> (6 LP) <u>Specialization</u> (12 LP) - Minor <u>Subject</u> (6 LP) - General Studies (6 LP)	Research Project (30 LP) <i>(Preparation of the research project for the master thesis)</i>	Master Thesis (30 LP)
30 CP	30 CP	30 CP	30 CP

International Master Course Physics: Advanced seminar

Two advanced seminars (6 CP each): Experimental Physics **and** Theoretical Physics

This semester:

Experimental Physics I:

Topic: [tba](#)

Tuesday, 09:15 – 10:45 LG1A/121

Experimental Physics II:

Topic: [Nano-Photonics](#)

Thursday, 13:45 - 15:15 HG 0.19

Experimental Physics III:

Topic: [Functional material systems for micro sensors and actuators](#)

Time: Friday, 07:30 -09:00; online only

contact the responsables by email for further information

Responsible:

Dr. M. Kot (sanchez@b-tu.de)

Prof. I. Fischer (inga.fischer@b-tu.de)

Prof. H. Schenk
(harald.schenk@ipms.fraunhofer.de)

International Master Course Physics: Advanced seminar

Two advanced seminars (6 CP each): Experimental Physics **and** Theoretical Physics

This semester:

Theoretical Physics:

Topic: [Special topics in superconductivity](#)

Thursday, 13:45 – 15:15 LG10/212

Responsible:

Dr. C. Mahato ([*mahato@b-tu.de*](mailto:mahato@b-tu.de))

contact the responsables by email for further information

International Master Course Physics: Specialization

<u>Specialization Phase</u>		Research Phase	
<i>Semester 1</i>	<i>Semester 2</i>	<i>Semester 3</i>	<i>Semester 4</i>
• <u>Advanced Seminar</u> (6 LP) • <u>Specialization</u> (18 LP) • <u>Minor Subject</u> (6 LP)	• <u>Advanced Seminar</u> (6 LP) • <u>Specialization</u> (12 LP) • <u>Minor Subject</u> (6 LP) • <u>General Studies</u> (6 LP)	Research Project (30 LP) <i>(Preparation of the research project for the master thesis)</i>	Master Thesis (30 LP)
30 CP	30 CP	30 CP	30 CP

International Master Course Physics: Specialization

- Choose specialization modules with an amount of 18+12 CP's
- Specialization modules have an experimental (and/or) theoretical focus
- Choose at least one from each category.

This semester:

General Theory of Relativity

Focus: theo.

Lecture: Monday 11:30-13:00, HG 2.44

Exercise: Tuesday 13:45 - 15:15, HG 2.44

Dr. U. Wulf (ulrich.wulf@b-tu.de)

Solid State Theory

Focus: theo.

Lecture: Wednesday 09:15 - 10:45, LG10/212

Exercise: Wednesday 13:45-15:15, LG10/212

Seminar on announcement

Prof. G. Seibold (seibold@b-tu.de)

International Master Course Physics: Specialization

Semiconductor Technology

Focus: exp.

Lecture/Exercise: Wednesday 13:45 – 14:15, HG0.17
please contact Prof. Kahmen for further information

Prof. G. Kahmen (kahmen@ihp-microelectronics.com)

Micro Systems

Focus: exp.

Lecture: Wednesday (A-weeks)
15:30 – 17:00, 17:30 – 19:00, LG1A 304
Exercise: Wednesday (B-weeks)
15:30–17:00, LG1A 304

Prof. H. Schenk
(harald.schenk@ipms.fraunhofer.de)

Laboratory Techniques and Metrology

Focus: exp.

Lecture: Thursday, 15:30-17:00, HG 2.44
Exercise: Thursday, 17:30-19:00, HG 2.44

Dr. S. Verma (vermas@b-tu.de)

International Master Course Physics: Specialization

Light and Matter: Introduction

Focus: exp.

Lecture: Tuesday 11:30-13:00, HG 0.19

Exercise: Thursday 11:30–13:00, HG 0.19

Journal Club: Monday 13:45-15:15, LG 10 212

Prof. I. Fischer (inga.fischer@b-tu.de)

Physics of Modern Devices

Focus: exp.

Lecture: Wednesday 11:30 - 13:00, LG 1A/304

Exercise: Monday 17:30–19:00, ZHG/SR3

Dr. L. Augel (lion.augel@b-tu.de)

Interfacial Engineering for Post Moore Nanoelectronics

Focus: exp.

Lecture: Friday 13:45 - 15:15, HG 0.20

Prof. A. Matkovic (aleksandar.matkovic@unileoben.ac.at)

International Master Course Physics: Specialization

[Nanocatalysis – Fundamentals and Applications](#)

Focus: exp.

Lecture: Tuesday 11:30-13:00, LG 1A/121

Wednesday 11:30-13:00, LG 1A/121

Exercises: Thursday 09:15-10:45, LG 1A/121

Prof. I. Flege (flege@b-tu.de)

[Semiconductor Physics for Applied Quantum Structures](#)

Focus: exp.

Lecture: Thursday 11:30 – 13:00, LG 10/212

Block course with lab

please contact Prof. Wenger for information about times

Prof. C. Wenger (wenger@ihp-microelectronics.com)

International Master Course Physics: Specialization

Waves and Instabilities in Fluids

Focus: theo.

Lecture: Tuesday 09:15-10:45, HG 0.18

Exercises: Thursday 11:30-13:00, LG 1A/121

Dr. R. Borcia (borciar@b-tu.de)

Computational Quantum Physics

Focus: theo.

Lecture: Thursday 09:15 – 10:45, HG 0.18

Exercises: Thursday 11:30 – 13:00, HG 0.18

Prof. D. Gorelova (darya.gorelova@uni-hamburg.de)

International Master Course Physics: Essential Infos

<u>Specialization Phase</u>		Research Phase	
<i>Semester 1</i>	<i>Semester 2</i>	<i>Semester 3</i>	<i>Semester 4</i>
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30 CP	30 CP	30 CP	30 CP

International Master Course Physics: Minor subject

Minor subject: Choose two modules within the first 2 semester or internship over 9 weeks

This semester:

[Wireless sensor networks: Concepts, Protocols and Applications](#)

Prof. K. Piotrowski (krzysztof.piotrowski@b-tu.de)

Lecture/Exercises: Monday 11:30 – 13:00, ZHG SR 1
Monday 13:45 – 15:15, ZHG SR 1

[Antennas I](#)

Prof. I. Ndip (ivan.ndip@b-tu.de)

Lecture: Thursday 13:45 – 15:15, HG 0.18
Exercise: Friday 13:45 - 15:15, HG 0.18

International Master Course Physics: Minor subject

Fundamentals in Power Electronics

Lecture/Seminar: Tuesday 11:30 – 13:00, LG 3A.324
15:30 – 17:00 LG 3A.324
Lab: Thursday 11:30 – 17:00, FZ3E/1.23
Friday 09:30-13:00, FZ3E/1.23

Prof. G. Möhlenkamp
(georg.moehlenkamp@b-tu.de)

Data exploration and system management using artificial intelligence / machine learning

Lecture: Tuesday 09:15 – 10:45, VG1C/0.03
Lab: Tuesday 11:30 – 13:00, VH1C/0.03

Dr. hab. I. Jablonski
(ireneusz.jablonski@b-tu.de)

Renewable Energy Technologies for Power Supply

Lecture: Thursday 15:30 – 19:00, ZHG Audimax 1

Prof. Dr. L. Röntzsch
(lars.roentzsch@b-tu.de)

International Master Course Physics: Minor subject

[Experiments in aerodynamics and fluid dynamics](#)

Please check moodle for further information

Lecture: Tuesday 11:30 – 13:00, Center for Fluidynamics, 3.22

Exercise: Wednesday 13:45 – 17:00, Center for Fluidynamics, 2.32

Prof. C. Egbers

(christoph.egbers@b-tu.de)

[Mathematical Optimization Techniques and Applications](#)

Lecture/Exercise: Wednesday 15:30-17:00, LG 1A HS 1

Friday 11:30 – 13:00, LG 1A 304

J. Weiland

(Johannes.Schmidt@b-tu.de)

International Master Course Physics: Minor subject

Image based Measurement Techniques for Aerodynamics

Lecture/Exercise: Thursday 13:45 – 17:00
Center for Fluidynamics 3.22

Prof. A. Schröder
(andreas.schroeder@b-tu.de)

CFD Seminar

Lecture: Wednesday 17:15-18:45, LG 3A 324

Prof. H. Schmidt
(heiko.schmidt@b-tu.de)

Scientific Computing

Lecture/Exercise: Wednesday 09:15-10:45, HG 3.45
Tuesday 11:30 – 13:00, HG 0.18

Prof. M. Breuß
(breuss@b-tu.de)

International Master Course Physics: Essential Infos

Minor subject: can also be accomplished as 9-week internship

- Internship should be related to the field of physics
- Should be done at an institute outside the university
- Some possibilities are listed on the next pages
- If you have decided on your preferences contact the institutions via email and submit an application
- Mention in your application that you intend to do the internship within the International Physics Master at BTU.

International Master Course Physics: Essential Infos

Minor subject: can also be accomplished as 9-week internship

Possibilities:



[IHP Frankfurt/Oder](#)

Contact: Prof. Christian Wenger
[click here for application page](#)



[DESY Zeuthen](#)

Contact: Prof. Wolfgang Lohmann
wolfgang.lohmann@desy.de

International Master Course Physics: Essential Infos

Minor subject: can also be accomplished as 9-week internship

Possibilities:



[Fraunhofer IPMS Dresden](#)

Contact: Prof. Harald Schenk
harald.schenk@ipms.fraunhofer.de



[IKZ Berlin](#)

Contact: Prof. Thomas Schröder
thomas.schroeder@ikz-berlin.de

International Master Course Physics: General studies

<u>Specialization Phase</u>		Research Phase	
<i>Semester 1</i>	<i>Semester 2</i>	<i>Semester 3</i>	<i>Semester 4</i>
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30 CP	30 CP	30 CP	30 CP

International Master Course Physics: Essential Infos

In case of questions:

Student Council Physics: fsr-physik@b-tu.de

Prof. G. Seibold (seibold@b-tu.de)

Phone: +49 (0)355 693006

Office: LG 10 , Room 223

[International Relations Office](#)

Enjoy!