Usually the first contact

Dr. Sascha Hohmann

Academic Councillor

Contact

Department of Physics
Coordinator - Academic Councillor
Public Relations & Study Guidance

Faculty of Science
Manager - Academic Councillor
Graduate Center of the Faculty of Science

E-Mail: sascha.hohmann@uni-paderborn.de
Phone: +49 5251 60-5836

Office Address: Pohlweg 47-49
33098 Paderborn

Office hours:
by appointment by email
Examination Matters

Prof. Dr. Stefan Schuchmacher

Theory of Functional Photonic Structures

<table>
<thead>
<tr>
<th>Contact</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:stefan.schumacher@uni-paderborn.de">stefan.schumacher@uni-paderborn.de</a></td>
</tr>
<tr>
<td>Phone:</td>
<td>+49 5251 60-2334</td>
</tr>
<tr>
<td>ORCID:</td>
<td>0000-0003-4042-4951</td>
</tr>
<tr>
<td>Web:</td>
<td>Homepage</td>
</tr>
<tr>
<td>Office Address:</td>
<td>Warburger Str. 100</td>
</tr>
<tr>
<td></td>
<td>33098 Paderborn</td>
</tr>
<tr>
<td>Room:</td>
<td>A4.234</td>
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</tbody>
</table>
Registered for summer term entry

**Semester 1**
- Core subjects (6+6 LP)
  - Fields and Waves (EE)
  - Quantum Electronics (Ph)
- Specialization (6+6 LP)
  - Quantum Optics (Ph)
  - Photonic Nanostructures (Ph)
  - ...
- GS (3+3 LP)
  - Management of Technical Projects
  - Language course
  - ...

**Semester 2**
- Fundamentals (6+6 LP)
  - Circuit and System Design (EE)
  - Modeling and Simulations (EE)
- Core subjects (6+6 LP)
  - Computational Optoelectronics and Photonics I (Ph)
  - OE Semicond. devices I (Ph)
- (4 LP)
  - Topics in OE & Photonics
- Lab courses (6 LP)
  - Optoelectronics
  - Optics & lasers
  - Material science
  - Computational optoelectronics
  - ...

**Semester 3**
- Specialization (6+6 LP)
  - Optical Communication A (EE)
  - Nonlinear Optics (Ph)
  - ...
- Lab Project (14 LP)

**Semester 4**
- Master Thesis (30 LP)

**Lab Project:** Extended lab work with focus on a specific subject
Study plan for summer term entry

Master Thesis: Independent research project, e.g. quantum optics, nanooptics & spectroscopy, computational photonics, optical communications, ultrafast optoelectronics, …
Our Website: http://photonics.upb.de

e.g., examination regulations, course recommendations, ...

<table>
<thead>
<tr>
<th>Course</th>
<th>Type</th>
<th>Contact time (h)</th>
<th>Self-study (h)</th>
<th>Status (IDE)</th>
<th>Group size (students)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modeling and Simulation</td>
<td>Lect</td>
<td>30</td>
<td>60</td>
<td>Comps.</td>
<td>up to 240</td>
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<tr>
<td>Modeling and Simulation</td>
<td>Exer</td>
<td>30</td>
<td>60</td>
<td>Comps.</td>
<td>up to 20</td>
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</table>

- **Certified participation**: None
- **Prerequisites for participation in examinations**: None
- **Prerequisites for assigning credits**: The credit points are awarded after the module examination (MAP) was passed.

The module is weighted according to the number of credits (factor 1).

<table>
<thead>
<tr>
<th>Module coordinator</th>
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<tbody>
<tr>
<td>Prof. Dr. rer. nat. Jens Förstner</td>
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</tbody>
</table>

- **Other notes**

The theoretical concepts are taught in lecture form. The exercises consist of simple questions to be discussed as well as classical mathematical problems which are to be solved by the students in self-contained manner. Further, the students will use self-written as well as commercial software for selected topics.

Have a look there to check the specializations!
WhatsApp Group

A piece of advice: get in touch with second year students after/in class or WhatsApp

https://chat.whatsapp.com/CzVThUIrOk22RwoYtZvVwA
Electronic Campus Management System: „Paul”

paul.uni-paderborn.de

-> sign up for courses *(your choice of courses)*
-> later: sign up for exams, check your grades, ...

Online Learning Platform: „Panda”

panda.uni-paderborn.de

-> all classes will be in-person taught in summer term 2024
-> additional course information and study material may be provided through Panda

Always check the deadlines for registering and deregistering for exams!
Some further questions

What are my login credentials for Paul and Panda?

- IMT login (IMT helpdesk: imt@upb.de)

Do I need to enroll for each course separately?

- yes, you need to do that in Paul

Where can I find more information about a particular course?

- courses available for each term are listed in Paul
- some general info is also given in Paul
- more information is given at the end of the examination regulations pdf-file
- further course information may also be available in Panda once signed up for specific courses

... 

Do not hesitate to contact us!

Or ask here and now ...