Table of Contents

Master's degree ................................................................. 2

Chemistry and Physics of Functional Materials (MSc) • University of Koblenz-Landau • Koblen 2
Master's degree

Chemistry and Physics of Functional Materials (MSc)

University of Koblenz-Landau • Koblenz

Overview

<table>
<thead>
<tr>
<th>Degree</th>
<th>Master of Science in Chemistry and Physics of Functional Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching language</td>
<td>• English</td>
</tr>
<tr>
<td>Languages</td>
<td>All mandatory courses are taught in English. Therefore, the programme can be completed entirely in English. Additional elective modules are available in German. German language skills are not a prerequisite. However, some German knowledge is very helpful in everyday life and also allows students to choose from a wider range of electives.</td>
</tr>
<tr>
<td>Programme duration</td>
<td>3 semesters</td>
</tr>
<tr>
<td>Beginning</td>
<td>Winter and summer semester</td>
</tr>
<tr>
<td>More information on beginning of studies</td>
<td>Beginning of winter semester: October, beginning of summer semester: April</td>
</tr>
</tbody>
</table>
| Application deadline        | • EU applicants:  
  15 January for the summer semester  
  15 July for the winter semester  
  • Non-EU applicants:  
  15 December for the summer semester  
  15 June for the winter semester  
  Due to the long visa application process, we strongly advise non-EU students to apply for the summer semester by 15 November and for the winter semester by 15 May. |
| Tuition fees per semester in EUR | None                                                         |
| Combined Master’s degree / PhD programme | No                                                          |
| Joint degree / double degree programme | No                                                          |
| Description/content         | The Master of Science in Chemistry and Physics of Functional Materials at the University of Koblenz-Landau (on the Koblenz Campus) is an interdisciplinary programme that enables graduates of Bachelor’s programmes in applied natural sciences to work in research in the fields of chemistry, |
Course Details

Course organisation

<table>
<thead>
<tr>
<th>Study Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthesis and characterisation of functional materials</td>
</tr>
<tr>
<td>Electives allow for setting an individual focus (mathematics, biology, geoscience, economics, and computer science)</td>
</tr>
<tr>
<td>Lectures will be held in English (choices of electives are thus restricted)</td>
</tr>
<tr>
<td>Possibility of studying abroad for a semester</td>
</tr>
</tbody>
</table>

The Master’s programme comprises three semesters of full-time study with a total amount of 90 ECTS. For students with a Bachelor's with 180 ECTS, an additional 30 ECTS (one semester) is offered. Ultimately, a total of 300 ECTS have to be earned.

The programme consists of a compulsory part on solid state physics as well as the synthesis and characterisation of functional materials. This gives students a broad knowledge in the field of functional materials (15 ECTS). Furthermore, three optional modules (18 ECTS) out of six in specific application fields of chemistry and physics in material science have to be chosen. Electives (12 ECTS) and a research project (15 ECTS) prepare the students for the final Master’s thesis and a final oral exam (30 ECTS).

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A Diploma supplement will be issued

No

International elements

- International guest lecturers
- Integrated study abroad unit(s)

Integrated study abroad unit(s)

Optional for internship or Master's thesis

Special promotion / funding of the programme

- Other (e.g. state level)

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses

No
Costs / Funding

<table>
<thead>
<tr>
<th>Costs / Funding</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition fees per semester in EUR</td>
<td>None</td>
</tr>
<tr>
<td>Semester contribution</td>
<td>Currently approx. 230 EUR per semester, covering contributions to the student services, the student union, and local public transport ticket</td>
</tr>
<tr>
<td>Costs of living</td>
<td>We estimate that students require about 800-850 EUR per month to cover the costs of living (including housing, bills, Internet, food, clothes, study materials, etc.). However, this depends on the individual style of living, the type of housing, etc.</td>
</tr>
<tr>
<td>Funding opportunities within the university</td>
<td>Yes</td>
</tr>
<tr>
<td>Description of the above-mentioned funding opportunities within the university</td>
<td>The university can support excellent international students in its international Master’s programmes with a partial scholarship during the first semester. This competitive scholarship covers 400 EUR per month during the first semester at the University of Koblenz-Landau. The application deadline for a scholarship in the winter semester is 15 June.</td>
</tr>
</tbody>
</table>

Requirements / Registration

<table>
<thead>
<tr>
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<th>Information</th>
</tr>
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</table>
| Academic Admission Requirements | • BSc in Applied Natural Sciences conferred by Universität Koblenz-Landau or equivalent degree (final grade 2.5 or better)  
• The board of examiners decides on any exceptions on the basis of applications submitted.  
• Exceptions in this regard are a Bachelor’s thesis with the grade 1.5 or better or professional experience of at least one year in the field of chemistry and physics of functional materials.  
• Prerequisites are a scientifically based command of higher mathematics, classical physics (mechanics, thermodynamics, electrodynamics, optics) and basic modern physics (atomic and molecular physics, quantum mechanics) on the level of experimental physics as well as in the basics and applications of general and inorganic chemistry, substance classes and reaction mechanisms in organic chemistry and material laws and states of matter in physical chemistry. |
| Language requirements | Knowledge in English equivalent to B2 level is required. |
| Application deadline | • EU applicants:  
15 January for the summer semester  
15 July for the winter semester  

• Non-EU applicants:  
15 December for the summer semester  
15 June for the winter semester  
Due to the long visa application process, we strongly advise non-EU students to apply for the summer semester by 15 November and for the winter semester by 15 May. |
| Submit application to | Universität Koblenz-Landau  
c/o uni-assist e.V.  
11507 Berlin  
Germany  
[www.uni-assist.de](http://www.uni-assist.de) |
The University of Koblenz-Landau is a young university on the move. The increase in the number of students shows that the two campuses, one in Koblenz and one in Landau, are attractive places to study. At present, about 17,000 students are registered, half of whom study in Koblenz and half in Landau. Compared to large universities, lectures and seminars are relatively small. This supports communication among students and between students and faculty.
University Location

Koblenz is a city with a rich, 2,000-year history. With currently more than 113,000 inhabitants with more than 130 different nationalities, Koblenz is located in one of the most attractive regions in Germany. Its surrounding landscape, the Upper Middle Rhine Valley, is honoured as a UNESCO World Cultural Heritage Site. Together with the metropolitan areas of Frankfurt and Cologne, which are close by, it features many cultural attractions and recreational facilities in combination with moderate living costs, all making Koblenz an ideal place to study.

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