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Industrial Pharmacy



Facts

Faculty	Faculty of Mathematics and Natural Sciences
Degree	Master of Science [M.Sc.]
Regular study period	4 Semesters
Start of program	Winter Semester
Admission requirement	Approval restricted [NC] Proof of Suitability required

Information
www.hhu.de/studienangebot

Info Video
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Exemplary Schedule

Semester	Modules					
1	Pharmaceutical Development [10 CP]	Drug Discovery* [8 CP]	Pharmaceutical Biotechnology* [8 CP]	Regulatory Framework** [4 CP]		
2	Pharmaceutical Manufacturing [10 CP]	Quality Control [10 CP]	Medicinal Chemistry* [8 CP]	Design and Supply of Clinical Studies** [2 CP]		
3	Quality Management [4 CP]	Drug Regulatory Affairs [10 CP]	Pharmaceutical Engineering* [8 CP]	Process and Plant Design** [4 CP]	Intellectual Properties** [2 CP]	International Pharma Business** [2 CP]
4	Master thesis [30 CP]					
* Optional compulsory modules						Total: 120 Credit Points [CP]
** Elective modules						

The master course of Industrial Pharmacy is a world-leading study programme in English language covering all aspects of pharmaceutical sciences in an industrial setting.

Undertaking a transdisciplinary approach, the course utilizes a range of perspectives from diverse fields and integrates them with industry experiences, case studies, real-world projects and self-directed studies, equipping graduates with an understanding of the state-of-the-art concepts, basic and advanced scientific technologies to transform scientific research into industrial practice.

Hands-on working experience is an important component of the course.

The study course contains 5 compulsory modules and which reflect the major departments of a pharmaceutical company.

Students have to select at least 3 modules out of 8 optional compulsory modules* depending on the educational background.

Further, a number of elective modules** are offered which round up the study course.

This course is offered on a two-year, full-time basis. Recommended study tracks adapted to the varying basic education are available in the Handbook of Modules. An exemplary timetable for a B. Sc. Chemist is shown above.

The practical work on the master thesis may be performed at an academic institution or an industrial organisation in any part of the world. The thesis will be solely submitted to and defended at the Heinrich Heine University.

Job Opportunities

Pharmaceutical Industry is a job motor throughout the world and offers various opportunities.

The master program prepares students to participate in a variety of emerging careers in pharmaceutical industry and related areas. Graduates may be employed for drug discovery, development, production, quality control, quality assurance and management, regulatory affairs, and equipment managers in both pharmaceutical industry and its suppliers.