


## Educational objective

The objective of this study course is

- to focus on day-to-day practical aspects in the field along the pharmaceutical value chain
- to promote interdisciplinary knowledge
- to facilitate the flow of information between the different phases of the drug development process
- to enable the participants to develop the right competencies in order to better deal with the complex international tasks facing health care institutions and the pharmaceutical industry.

## Course structure

	<b>General Introduction to the Healthcare System and the Pharmaceutical Industry</b>	<b>M 1</b>
SU 1	General Introduction to the Healthcare System and the Pharmaceutical Industry	
	<b>Core Competencies: Leadership, Management Methods, Organizational Power</b>	<b>M 2</b>
SU 2	Working in a Complex Organization	
SU 3	Project Management	
	<b>Economics of Healthcare</b>	<b>M 3</b>
SU 4	Health Economics	
SU 5	International Health Systems and Market Access	
	<b>Biopharmaceutical Development</b>	<b>M 4</b>
SU 6	Drug Discovery and Development	
SU 7	Biopharmaceuticals and –technology	
	<b>Non-Clinical Testing, Pharmaceutical and Early Clinical Development</b>	<b>M 5</b>
SU 8	Toxicology	
SU 9	Clinical Pharmacology, Pharmacokinetics	
	<b>Clinical Trials, Strategies and Management</b>	<b>M 6</b>
SU 10	Clinical Trials	
SU 11	Strategies and Managing Clinical Trials	
	<b>Ethical and Legal Issues in Drug Development</b>	<b>M 7</b>
SU 12	Ethical and Legal Issues in Drug Development	
	<b>Data Management and Statistics</b>	<b>M 8</b>
SU 13	Clinical Systems and Data Management	
SU 14	Biostatistics	
	<b>Drug Safety and Pharmacovigilance</b>	<b>M 9</b>
SU 15	Drug Safety	
SU 16	Post-Marketing Surveillance	
	<b>Regulatory Affairs</b>	<b>M 10</b>
SU 17	Regulatory Affairs	
	<b>Healthcare Marketplace</b>	<b>M 11</b>
SU 18	Marketing and Sales	
	<b>Pharmaceutical Related Case Studies</b>	<b>M 12</b>
SU 19	Pharmaceutical Related Case Studies	
	<b>Master-Thesis</b> <b>Final Oral Examination</b>	

# Master of Science (MSc) in Pharmaceutical Medicine



The study course lasts two years and is divided into 12 modules with 19 study units, taught in block seminars once a month, on a Thursday afternoon, Friday and Saturday at the University of Duisburg-Essen. Each study unit would be concluded with an examination.

## Entry requirements

Applicants should have a degree in one of the following areas:

- Life Sciences
- Medicine
- Pharmacy

as well as one year's professional experience and a good command of the English language.

## Scientific Course Committee (SCC)

The Scientific Course Committee (SCC) is accountable for the overall success and applicability of the study course. The Scientific Course Committee consists of highly experienced scientists and subject matter experts actively employed in different disciplines. The main obligation of this committee is to ensure that the content of the study course is state-of-the-art.

## The Scientific Course Committee (SCC) Members are:

- Prof. Dr. Jan Buer
- Prof. Dr. Dobromir Dobrev
- Dr. Matthias Gottwald
- Prof. Dr. Karl-Heinz Jöckel
- Prof. Dr. Martin Michel
- Prof. Dr. C. Ralf Schaltenbrand
- Dr. Peter Schüler
- Prof. Dr. Martin Schuler
- Prof. Dr. Walter Schwerdtfeger
- RA Herbert Wartensleben
- Prof. Dr. Franz-Josef Wingen

## Course Language

The course language is English.

## Venue

The study units are held at the University of Duisburg-Essen in Essen, Faculty of Medicine, Germany.

## Degree

Master of Science (MSc)

## Accreditation and Approval

- Accreditation by AQAS/ENQA and State Recognition
- International Accreditation by IFAPP
- Centre of Excellence IMI PharmaTrain

