



## Modulhandbuch

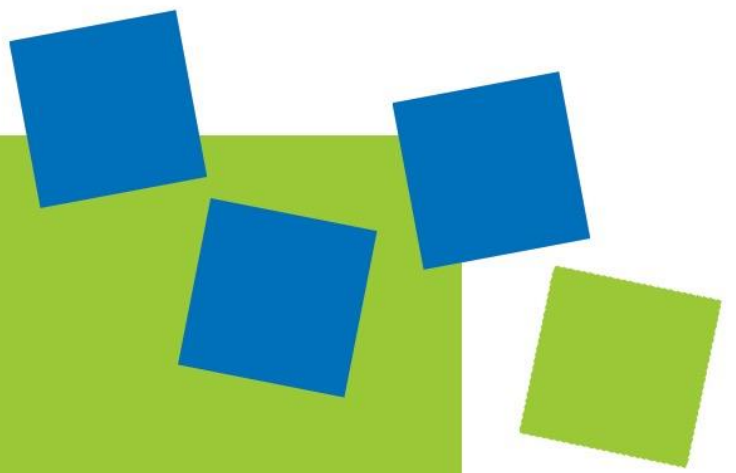
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*International Product and Service Management (SPO WS  
16/17)*

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*Fakultät Wirtschaft*

Stand: 2024-09-04



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## **1 Introduction to the course of studies**

<b>Course of studies</b>			
<b>Short form:</b>	IPM	<b>SPO-Nr.:</b>	HSAN-20161-1
<b>Course management:</b>	Prof. Dr. Barbara Hedderich		
<b>Student advisory service:</b>	Prof. Dr. Barbara Hedderich & Prof. Dr.-Ing. Anke Knoblauch		
<b>ECTS:</b>	90 points (+30 ECTS-points bridging modules for 6+4 Bachelor's programs or the need for a professional bridging semester)		
<b>Standard period of study:</b>	3 semesters (for 180 ECTS points Bachelor's degree or in the case of a professional bridging semester an additional semester might be needed)		
<b>Admission requirements:</b>	<ol style="list-style-type: none"> <li>1. a university degree or equivalent with an overall examination mark of 2.0 or better in a course of study at a German or foreign university lasting at least a standard period of study of six semesters</li> <li>2. proof of sufficient knowledge of German (at least Goethe-Zertifikat A1) and English (proven in the admission interview)</li> <li>3. proof of above-average motivation as a special qualification requirement through an admission interview, especially for grades between 2 and 3</li> </ol>		
<b>Usability:</b>	Master International Product and Service Management		
<b>Learning Outcomes:</b>			
<p>The aim of the Master course "International Product and Service Management" is to convey the future master's graduates the professional, methodological and social skills that are necessary for the independent development and application of scientific knowledge and processes. The graduates also should learn how to act responsible in business and society.</p> <p>With the academic degree "Master of Arts", short form: "M.A.", the graduates receive the qualification for doctoral studies.</p> <p>The students acquire the requirements to face successfully the challenges of an internationalized world. The students develop their personality to be able to:</p> <ul style="list-style-type: none"> <li>• think and act entrepreneurially,</li> <li>• actively shape innovations,</li> <li>• reflect ethically on their actions.</li> </ul> <p>It is important to enable them to act as bridge builders between the disciplines. They are able to analyze complex contexts and to react flexibly in them. Therefore, corresponding knowledge, skills and abilities are established. The focus of the Master course "IPM" is the application-oriented, science-based preparation of the students for occupational acting in managerial as well as in leadership roles.</p>			
<b>Content:</b>			
<p>Each semester, students acquire 30 credit points.</p> <p>In the summer semester (1st or 2nd semester), a core module is offered. The operational processes are reflected in their complex entirety. The focus is the holistic and interdisciplinary consideration of the product. The core module is created as a cross-course module with combined, interdisciplinary courses, projects and case studies.</p>			

In the winter semester, students can specialize in a focus module according to their personal inclinations in the technical or business area. In all orientations, the focus is on the product and the processes that are arranged around it. The focus modules are supplemented by elective modules (also language courses) and interdisciplinary, team-oriented project works or case studies. In Ansbach, the focus “Technologies” is offered. With this specialization in the technical field, students can qualify as intermediaries between the disciplines of engineers and businesspeople. At the TH Valencia, the focus is „Service Management“.

The last semester concludes the course with the preparation of a master’s thesis.

Because of the international cooperation, the language of instruction is in general English.

**Graduation / Academic degree:**

Master of Arts (M.A.)

## 2 Description of Modules

## 2.1 Core Module

<b>Product Management</b>			
<b>Module abbreviation:</b>	IPM-ProductManagement	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	core module	1 or 2
<b>Responsible for module:</b>	Prof. Dr. Barbara Hedderich, Prof. Dr. Anke Knoblauch		
<b>Lecturers:</b>	Prof. Dr. Barbara Hedderich, Prof. Dr.-Ing. Anke Knoblauch, Prof. Dr. Kaiser, Prof. Dr. Schnurpfeil, Prof. Dr. Schugk, Prof. Dr.-Ing. Slama, Prof. Dr. Konle, Mr. Hoyer, Mr. Eichinger		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	30 ECTS / 10 SWS		
<b>Workload:</b>	Contact hours:		140 h
	Self-study:		760 h
	Total:		900 h
<b>Subjects of the module:</b>	Product Management (IPM-ProductManagement)		
<b>Frequency:</b>	Summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Project		
<b>Examinations:</b>	Seminar paper and presentation (during the examination period); graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan. Admission to the final exam can only be granted after taking part in Milestone 1 and Milestone 2.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Knowledge</u></p> <p>The students are acquainted with all relevant topics concerning all the different phases of the product process: from developing an idea by being innovative through market analysis, product design, planning of realization, market entry, summing everything up in a business plan. They know that a product can always be a material or an immaterial good and will be surrounded by service processes. They realize how interdependent those different parts are and how they influence each other.</p>			



Professional skills

The students are able to organize themselves into efficient groups and solve the challenges posed by projects in the area of product development.

They are also able to evaluate their own progress and develop strategies for improving their performance.

Social skills

Students enhance their team competence.

They are able to work in intercultural environments.

They have experience in communicating in interdisciplinary settings.

**Content:**

The core module combines project work with theoretical stimuli. Students work on the project in groups and as far as possible independently. They will be attended to by a coach who introduces into the project and is there for the students whenever difficulties and questions arise concerning group dynamics. This takes into account that working in international and interdisciplinary groups poses specific challenges. The coach offers some systematic introductions into group work, mediates and reflects with the groups as required taking care that progress of the project is possible.

The project is complex enough to require students to attend to all the tasks necessary in a complete product process thus enabling them to experience firsthand all the interdependences of a real-life project. A project, on the other hand, can never cover in a systematic way all relevant aspects of the product process. Therefore, theoretical stimuli will be offered to the students parallel to the project work. Those stimuli give some relevant theoretical background and confront students with some examples of current research work allowing them some insights and possibilities for reflection even into those parts of the product process that might not be present or not in the foreground of their own project. At the same time the students get through the stimuli the chance to know our experts in those fields relevant to their project who will also be available for questions that might arise during their own project work.

The project will always be about a material or immaterial good that has to be developed for market launch. It can be a product or a service offered to us by a firm or it can be one that we hope might be marketable. Projects will always start with describing to the group a problem and the development of a convincing solution during the semester will be expected. Depending on the concrete project there will be challenges from different areas to be confronted while preparing designs, technical and non-technical solutions and a business plan. The development of the solution has to be presented in three milestones.

The first milestone will have a didactic character in the sense that students will get a feedback showing them areas where they have to develop further. Grades will take into account that this is the first feedback opportunity for the students. The presentations of the other two milestones will be evaluated following strictly professional criteria. The first two milestones take place during the semester to allow an evaluation of progress of the project and offer the students feedback. In the last milestone a finished business plan has to be presented in written and oral form.

According to the different phases of the product process the stimuli offer the following subjects independent of the specific project but reflecting on the project if possible:

- **Innovation:** An introduction of the two relevant perspectives - economic and business - will be offered. The economic perspective allows students to classify their own project according to different approaches that are currently discussed. Apart from the economic content research tools will be introduced. The business perspective offers some insights into change management and the necessity of customer orientation of innovation. This stimulus will be complemented by an introduction into creativity techniques and rapid prototyping.
- **Product Development and Planning:** Some insights into technological, non-technological and business determinants for preparing the marketability of products are given. Some relevant methods like the KANO model are introduced. The difference between the treatment of material and immaterial products will be highlighted.
- **Product Realisation:** For material goods the layout of the plants and the workflow of the production process is planned. Concepts like lean production are introduced and the interdependence of the development and the production of the products is shown. For immaterial goods special service operations and service engineering are explained.
- **Sales, Service and Product Disposal:** Concepts of technical sales are introduced. An overview over the concepts of service quality and service marketing is given. Current issues in both areas are discussed. The necessity of soft skills like intercultural skills will also be covered.

**Literature:**

Will be specified at the beginning

## 2.2 Focus Modules

Technology

<b>Biomaterials in Medicine</b>			
<b>Module abbreviation:</b>	IPM-BiomaterialsinMedicine	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Focus Module	1 or 2
<b>Responsible for module:</b>	Boger, Andreas		
<b>Lecturers:</b>	Boger, Andreas		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 2 SWS		
<b>Workload:</b>	Contact hours:		22,5 h
	Self-study:		127,5 h
	Total:		150 h
<b>Subjects of the module:</b>	Biomaterials in Medicine (IPM-BiomaterialsinMedicine)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam, 60 minutes; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<u>Professional Skills</u> Background on Biomaterials used in Medicine as described in content. <ul style="list-style-type: none"> <li>• Making a research on a topic / question for themselves, followed by sharing and discussing the findings with the other participants (think-per-share).</li> <li>• By doing the research the students will learn to evaluate a special application concerning the questions:               <ul style="list-style-type: none"> <li>○ does it really address a clinical need,</li> <li>○ what is the relevance for the patients,</li> <li>○ what are the pros and cons. Possible drawbacks and risks for the user of the product and the patient</li> <li>○ how does the IP-situation looks like on the field of application</li> </ul> </li> </ul>			

**Social Skills**

The one connected to the teaching method think-per-share as mentioned above. The student has the competence to synthesize information from a wide range of sources, is able to present and document the work results systematically and is a team player.

**Content:**

Introduction to Biomaterials in Medicine by the contents asking the following questions:

- Why do we need / for what do we need Biomaterials especially in orthopedic: goals of fracture treatment?
- How Biomaterials are defined?
- Out of what materials (metals, ceramics, polymers, composite) Biomaterials made for a given application and why?
- Which different kinds - as defined by the origin of the Biomaterials exists ?
  - Synthetic Biomaterials, Allografts, Autografts, Xenografts etc.
- What are the special properties from those materials?
- What are the different applications of Biomaterials in Medicine and open questions behind them?
- What are the reason behind; using the Biomaterial (material group) for the given application (several examples will be discussed)?.
- How to define and describe the functional and Design requirements of Biomaterials products in principle?

**Literature:**

- BÁRTOLO, Paulo Jorge and Bopaya BIDANDA, 2008. *Bio-materials and prototyping applications in medicine*. New York, NY: Springer. ISBN 978-0-387-47682-7, 9780387476834
- RATNER, Buddy D. and others, 2004. *Biomaterials science: an introduction to materials in medicine*. 2. edition. Amsterdam [u.a.]: Elsevier, Academic Press. ISBN 0-12-582463-7, 978-0-12-582463-7
- Without author. *Biomaterials - Journals* [online]. [Accessed on: ]. Available via: <http://www.sciencedirect.com/science/journal/01429612>

<b>Chemical and Biotechnological Products and Production Processes</b>			
<b>Module abbreviation:</b>	IPM-ChemBiotechnoProd	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Focus Module	1 or 2
<b>Responsible for module:</b>	Gaisser, Sibylle		
<b>Lecturers:</b>	Gaisser, Sibylle; Wilisch, Christian		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Chemical and biotechnological products and production processes		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar & practical training		
<b>Examinations:</b>	2 presentations and essay/ documentation/ poster for each of the presentations; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
Basic understanding in natural sciences			
<b>Objectives:</b>			
<p><u>Knowledge</u></p> <p>The students are familiar with additive manufacturing and enzymatic, prokaryotic and eukaryotic production systems in the chemical and pharmaceutical sector. The students will understand the nature and the current state of the art of additive manufacturing. They have broad knowledge of the drug development pipeline, the applied research tools and develop an understanding of the mode of action of biopharmaceutical products.</p> <p><u>Professional Skills</u></p> <p>Students are able to assess additive manufacturing strategies and biotechnological processes and their implications for an industrial production process. They have basic skills in some aspects of practical microbiological methods and polymerization methods. The students will be able to select appropriate methods of additive manufacturing, depending on the specific requirements for the part(s) in question.</p> <p><u>Social Skills</u></p> <p>Students are able to carry out independent literature search in a new biotechnology related subject. The students will be able to appreciate the use of additive manufacturing. They can classify and structure the obtained material and are able to present and discuss their results in a case study presentation.</p>			

**Literature:**

- WALSH, Gary, 2008. Pharmaceutical biotechnology: concepts and applications. Chichester, England: Wiley. ISBN 978-0-470-01244-4, 0-470-01244-7
- THIEMAN, William J. and Michael A. PALLADINO, 2020. Introduction to Biotechnology. F. edition. Harlow: Pearson Education Limited. ISBN 978-1-292-26177-5
- GEBHARDT, Andreas and Jan-Steffen HÖTTER, 2016. Additive manufacturing: 3D printing for prototyping and manufacturing. Munich: Hanser Publications. ISBN 978-1-5231-0442-0, 1-5231-0442-2
- GIBSON, I., ROSEN, D., STUCKER, B., KHORASANI, M., 2021. Additive Manufacturing Technologies. 3rd ed. Charn (CH). ISBN-10: 3030561267, ISBN-13: 978-3030561260

Additional literature will be specified at the beginning of the course.

<b>Computer Simulation Technologies and Control Engineering</b>			
<b>Module abbreviation:</b>	IPM-CompSimulTechnoContrEngi	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Focus Module	1 or 2
<b>Responsible for module:</b>	Moog, Mathias		
<b>Lecturers:</b>	Moog, Mathias; Schöneegg, Martin		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Computer Simulation Technologies and Control Engineering (IPM-CompSimul-TechnoContrEngi)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam, 60 minutes; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
Aims – Computer Simulation Technologies:			
<u>Knowledge</u>			
The students are able to			
<ul style="list-style-type: none"> <li>locate starting points for the successful use of simulation technologies in product development</li> <li>understand and judge the use of different simulation tools in various application fields</li> <li>get an insight in possibilities and limitations of simulation technologies</li> </ul>			
<u>Professional skills</u>			
They are			
<ul style="list-style-type: none"> <li>familiar with basic concepts of computer simulation</li> <li>able to choose the correct simulation techniques and the adequate simulation tools in complex problems and use them target-oriented</li> </ul>			
<u>Social skills</u>			
They develop the ability to			
<ul style="list-style-type: none"> <li>communicate clearly and intelligibly about the use of computer simulation technologies</li> </ul>			



- distribute tasks and to coordinate individual tasks with a team in projects containing simulation aspect
- asking target-oriented questions to simulation experts

Aims – Control Engineering:

Knowledge

The aim of the lecture is to give an introduction to control engineering and automation which means for the students on the one hand to gain an overview of the topics single loop control and feedback loop control in principle and on the other hand to get experienced with common control systems, actuators and sensors in real systems. Furthermore, a very broad overview is given on computer controlled machines.

Professional Skills

The students understand the principles and differences of single loop control systems and feedback loop control systems. By means of an integrated practical training, including three units, they are trained in the basics of pneumatics and designing of a pneumatic system (consisting of sources, drives, sensors and logic elements), corresponding to a simple control problem. The participants understand the principles of programmable logic controllers (PLC).

Social Skills

The students learn cooperation and mutual learning especially in the practical training units. Furthermore, they extend their English vocabularies by many technical terms and use them frequently in technical discussions.

**Content:**

Computer Simulation Technologies Content:

- Reasons for the use of computer simulation
- Classification of simulation tools, engineering and applications
- Dynamical systems, models of growth, parameter sensitivity
- Modelling e.g.: CO2 in atmosphere
- Process control simulation
- Event Driven Systems: state charts, application fields
- Introduction to statistical models

Control Engineering Content:

- Control Systems
- Sensors and Actuators
- Signals and Systems
- Feedback Control Systems
- Computer-controlled Machines
- Automated Process Control

**Literature:**

- VELTEN, Kai, 2009. *Mathematical modeling and simulation: introduction for scientists and engineers*. Weinheim: WILEY-VCH. ISBN 978-3-527-40758-3, 3-527-40758-8
- GOULD, Harvey, Jan TOBOCHNIK and Wolfgang CHRISTIAN, 2007. *An introduction to computer simulation methods: applications to physical systems*. 3. edition. San Francisco ; Munich [u.a.]: Pearson-Addison-Wesley. ISBN 0-805-37758-1

- HANNON, Bruce and Matthias RUTH, 2001. *Dynamic modeling*. 2. edition. New York [u.a.]: Springer. ISBN 0-387-98868-8
- GERSHENFELD, Neil A., 2003. *The nature of mathematical modeling*. R. edition. Cambridge [u.a.]: Cambridge Univ. Press. ISBN 0-521-57095-6
- ACHESON, David J., 1997. *From calculus to chaos: an introduction to dynamics*. Oxford [u.a.]: Oxford Univ. Press. ISBN 0-19-850257-5, 0-19-850077-7
- NISE, Norman S., 2011. *Control systems engineering*. 6. edition. Hoboken, N.J.: Wiley. ISBN 978-0-470-64612-0
- TEWARI, Ashish, 2002. *Modern control design with MATLAB and SIMULINK*. Chichester: John Wiley. ISBN 0-471-49679-0
- BRAMER, Max A., 2007. *Principles of data mining*. London: Springer. ISBN 978-1-84628-765-7, 1-84628-765-0
- WILKIE, Jacqueline, Michael JOHNSON and Reza KATEBI, 2002. *Control engineering: an introductory course*. 1. edition. Basingstoke [u.a.]: Palgrave. ISBN 0-333-77129-X, 978-0-333-77129-7
- HOOPER, Jay F., 2013. *Basic pneumatics: an introduction to industrial compressed air systems and components*. R. edition. Durham, N.C.: Carolina Academic Press. ISBN 978-1-61163-411-2, 1-61163-411-3
- BOLTON, W., 2009. *Programmable logic controllers*. 5. edition. Oxford: Newnes. ISBN 978-1-85617-751-1, 1-85617-751-3

<b>Food Technology</b>			
<b>Module abbreviation:</b>	IPM-Food Technology	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Focus Module	1 or 2
<b>Responsible for module:</b>	Knoblauch, Anke		
<b>Lecturers:</b>	Knoblauch, Anke		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Food Technology (IPM-Food Technology)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar, practical training		
<b>Examinations:</b>	Seminar paper; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Knowledge</u> The student knows processes for food production as well as some basics in the fields of food sensory analysis, nutrition, food packaging and food hygiene. The student is able to describe and evaluate processes and consider aspects of sustainability.</p> <p><u>Professional skills</u> The student understands food production processes, can discuss and analyse them from different points of view. New fields of knowledge can be developed, presented, analysed and discussed.</p> <p><u>Social skills</u> The student has the competence to synthesize information from a wide range of sources, is able to present and discuss the work results systematically and can work as team player.</p>			
<b>Content:</b>			
<p>Current topics in the field of food technology, examples are chosen from the following areas:</p> <ul style="list-style-type: none"> <li>• flow charts</li> <li>• influence of processing parameters</li> <li>• unit operations (for example drying, freezing, separation processes)</li> </ul>			

- quality management
- nutritional aspects
- sensory analysis
- packaging
- hygiene and food preservation
- sustainability

**Literature:**

- VACLAVIK, Vickie, Elizabeth W. CHRISTIAN and Tad CAMPBELL, 2021. *Essentials of Food Science*. 5. edition. Cham: Springer. ISBN 978-3-030-46813-2
- CAMPBELL-PLATT, Geoffrey, 2018. *Food science and technology*. S. edition. Hoboken, NJ, USA: Wiley Blackwell. ISBN 978-0-470-67342-3

<b>Introduction to Chemistry and Physics for Non-Scientists</b>			
<b>Module abbreviation:</b>	Intr. to Chem. and Physics f. Non.-Scientists	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Focus Module	1 or 2
<b>Responsible for module:</b>	Hedderich, Barbara		
<b>Lecturers:</b>	Rychkov, Dmtry; Wilisch, Christian		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Introduction to Chemistry and Physics for Non-Scientists (Intr. to Chem. and Physics f. Non.-Scientists)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Seminar paper and presentation; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<u>Knowledge</u>			
The students gain a basic understanding of scientific principles that is essential in our technological world. They understand basic chemical processes, the pathways to chemical mass products and the relationship between marketing claims for consumer products and the critical ingredients supporting that claim. They also gain a fundamental understanding of how physicist describe our world.			
<u>Professional skills</u>			
The students gain the ability to facilitate, for instance, the discussions between project scientists and product managers. They gain a basic understanding of laboratory procedures and the analyses of experimental results. The students also learn to identify critical components of consumer products.			
<u>Social skills</u>			
Students can carry our independent literature search in a chemical or physical topic as it relates to consumer product creation. During group work in the laboratory, they learn to function in small teams.			

**Content:**

Chemistry: structure of matter, types of chemical bonds, nuclear chemistry, chemical reactions and equilibria, catalysis, introduction to organic chemistry, chemistry and the environment

Physics: basic concepts of: mechanics, electricity and magnetism, molecular physics and modern physics

**Literature:**

- BROWN, Theodore L., Harold Eugene LEMAY and Bruce Edward BURSTEN, 2018. *Chemistry: the central science*. 14. edition. Harlow: Pearson. ISBN 978-1-292-22132-8
- CARDAMONE, Michael J., 2007. *Fundamental concepts of physics*. Boca Raton, Fla.: BrownWalker Press. ISBN 978-1-59942-433-0, 978-1-59942-434-7
- CHAICHIAN, Masud, Hugo PEREZ ROJAS and Anca TUREANU, 2014. *Basic concepts in physics: from the cosmos to quarks*. Berlin [u.a.]: Springer. ISBN 978-3-642-19597-6, 978-3-642-19598-3

<b>Plastics Processing Technology</b>			
<b>Module abbreviation:</b>	IPM-PlasticsProcessingTech	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Focus Module	1 or 2
<b>Responsible for module:</b>	Hedderich, Barbara		
<b>Lecturers:</b>	Wilisch, Christian		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Plastics Processing Technology (IPM-PlasticsProcessingTech)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	seminar paper and presentation; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Knowledge</u> The students have knowledge of the basics of polymeric materials, their properties and processing technologies as well as their economic importance. They understand the main production methods and the possible applications. The students also gain knowledge about the intricacies of polymer recycling.</p> <p><u>Professional skills</u> The students can understand the difference between the essential polymeric materials and the processing technologies used for the production of different components.</p> <p><u>Social skills</u> Teamwork and communication skills by solving tasks in small groups, self-reflection.</p>			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>• Introduction to plastics materials (structure, monomers, polymers)</li> <li>• Development and economic importance of polymer materials</li> <li>• Classification of plastics (thermoplastics, thermosets and elastomers; description, structure and properties)</li> </ul>			

- Rheology (brief overview)
- Processing of plastics: Extrusion; Injection Moulding; Thermoforming; Casting; Rapid prototyping
- Design and development of plastic components
- Plastic assembly techniques (welding)
- Applications with examples
- Recycling

**Literature:**

- OSSWALD, Tim A., 2017. *Understanding polymer processing: processes and governing equations*. 2. edition. Munich: Hanser Publishers. ISBN 978-1-56990-647-7, 1-56990-647-5
- AGASSANT, Jean-François, Pierre AVENAS and Pierre J. CARREAU, 2017. *Polymer processing: principles and modeling*. 2. edition. Munich ; Cincinnati: Hanser. ISBN 978-1-56990-605-7



<b>Project</b>			
<b>Module abbreviation:</b>	IPM-Project	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	focus or elective	Every semester
<b>Responsible for module:</b>	Director of the program		
<b>Lecturers:</b>	Every professor of IPM		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 1 SWS		
<b>Workload:</b>	Contact hours:		12 h
	Self-study:		138 h
	Total:		150 h
<b>Subjects of the module:</b>	Project (Elective or focuse module)		
<b>Frequency:</b>	Winter and summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Project		
<b>Examinations:</b>	Project work, seminar paper; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<u>Knowledge</u> The student is able to apply theoretical and practical knowledge gained during their preceding studies or work experience depending on the content of the individual project.			
<u>Professional Skills</u> The student is able to independently plan, execute and document a small scientific project in the field of the given task. The student can discover and independently learn new technologies and/or applications. The student has experience in report writing, can present and discuss academic projects.			
<u>Social Skills</u> In the case of team projects the student is able to integrate and work in a team, in the case of individual projects especially self-organization skills will be strengthened.			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>• The student will be given a task by a professor or can suggest a topic, which has to be closely related to the field of product management and has to be evaluated by a professor.</li> <li>• Individual or team projects are possible.</li> <li>• The student submits a seminar paper covering the project work and reflecting it considering the scientific discussion in that area.</li> </ul> Important criteria are: <ul style="list-style-type: none"> <li>• Time and project management</li> </ul>			

- Management of knowledge
- Quality of documentation, presentation and discussion

**Literature:**

Will be specified at the beginning

## 2.3 Elective Modules

<b>Business English - Advanced Writing and Cultural Studies</b>			
<b>Module abbreviation:</b>	IPM-BusinEnglAdvanWritCultStud	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	McIntosh, Sabine		
<b>Lecturers:</b>	McIntosh, Sabine		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 2 SWS		
<b>Workload:</b>	Contact hours:		22,5 h
	Self-study:		127,5 h
	Total:		150 h
<b>Subjects of the module:</b>	Business English - Advanced Writing and Cultural Studies (IPM-BusinEnglAdvanWritCultStud)		
<b>Frequency:</b>	Winter and Summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam, 90 minutes; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
English knowledge according to the European Frame of Reference level B2/C1; Students of Business Administration should have passed Written and Oral Communication Skills			
<b>Objectives:</b>			
<u>Knowledge</u>			
<ul style="list-style-type: none"> <li>Acquisition of the ability to work in an international/English-speaking company by consolidating technical terminology</li> </ul>			
<u>Professional skills</u>			
<ul style="list-style-type: none"> <li>Consolidation of written and oral communicative competence in the foreign language</li> </ul>			
<u>Social skills</u>			
<ul style="list-style-type: none"> <li>Ability to integrate in international companies by acquiring in-depth language skills and knowledge of intercultural aspects.</li> </ul>			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>Analysis and discussion of texts dealing with the economic sector or cultural aspects</li> <li>Superior understanding of the writing process and writing techniques (memos, reports, minutes etc.)</li> <li>Stylistic elements of text production and creative writing with special regard to sentence structure and punctuation</li> </ul>			

- Analysis and evaluation of differences in intercultural communication
- Who are we - cultural backgrounds, attitudes and values
- Identifying the challenges faced by people working in an intercultural environment
- Dimensions of culture: some models

**Literature:**

Will be specified at the beginning

<b>Business English - Oral Communication Skills</b>			
<b>Module abbreviation:</b>	IPM-BusEnglOralComSkills	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	McIntosh, Sabine		
<b>Lecturers:</b>	McIntosh, Sabine; Zürn, Martina		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Business English - Oral Communication Skills (IPM-BusEnglOralComSkills)		
<b>Frequency:</b>	Winter and Summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Oral exam, 15 minutes; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
Students of Business Administration should have passed Written Communication Skills			
<b>Objectives:</b>			
<u>Knowledge</u>			
<ul style="list-style-type: none"> <li>Ability to speak fluently in English using appropriate grammar, vocabulary and pronunciation on an intermediate to advanced level</li> </ul>			
<u>Professional skills</u>			
<ul style="list-style-type: none"> <li>Ability to use spoken English in a business and international context</li> </ul>			
<u>Social skills</u>			
<ul style="list-style-type: none"> <li>Understanding of intercultural aspects</li> </ul>			
<b>Content:</b>			
In this course, students will improve their proficiency, accuracy and vocabulary in spoken English and improve their listening skills.			
<ul style="list-style-type: none"> <li>Introduction into regional and cultural aspects of English speaking countries with special emphasis on intercultural aspects and behaviour</li> <li>Improvement of English language functions such as requesting, greeting, clarifying, apologizing, inviting and so on in business situations (face to face)</li> </ul>			

- Organizing or running a debate or discussion and stating one's own opinion in business situations (meetings)
- Ability to understand difficult and complex subjects and to rephrase them (telephoning)
- Making and delivering a presentation
- Interpreting and explaining graphs and charts

**Literature:**

Will be specified at the beginning

<b>Business English - Written Communication Skills</b>			
<b>Module abbreviation:</b>	IPM-BusEnglWrittComSkills	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	McIntosh, Sabine		
<b>Lecturers:</b>	Gilg, Andrea		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Business English - Written Communication Skills (IPM-BusEnglWrittComSkills)		
<b>Frequency:</b>	Winter and Summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam, 90 minutes; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
English knowledge according to the European Frame of Reference level B2/C1			
<b>Objectives:</b>			
<u>Knowledge</u>			
<ul style="list-style-type: none"> <li>Acquirement of intermediate to advanced skills in written interaction using appropriate terminology and expressions in business contexts.</li> </ul>			
<u>Professional skills</u>			
<ul style="list-style-type: none"> <li>Ability to use the English language in relation to a specialized and professional context in an international environment.</li> </ul>			
<u>Social skills</u>			
<ul style="list-style-type: none"> <li>Awareness of intercultural differences and diversity</li> </ul>			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>Repetition and consolidation of grammatical knowledge and emphasis on syntactical structures</li> <li>Expansion of basic language skills and proficiency</li> <li>Analysis and discussion of specially selected authentic articles from magazines, newspapers and textbooks</li> <li>Expansion of language skills with regard to specific and general business situations</li> </ul>			



- Individual writing of texts with a focus on business and economic topics on the one hand and on the requirements of later professional life on the other hand. Writing business letters in English is a major objective of this class.
- Knowledge of the internationally used terminology (INCOTERMS)

**Literature:**

- WESSELS, Dieter, 2004. *Commercial Correspondence - Advanced Commercial Correspondence - B2/C1*. Berlin: Cornelsen. ISBN 978-3-464-02790-5

<b>Business Excellence</b>			
<b>Module abbreviation:</b>	IPM-BusinessExcellence	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Kaiser, Norbert		
<b>Lecturers:</b>	Kaiser, Norbert		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 2 SWS		
<b>Workload:</b>	Contact hours:		22,5 h
	Self-study:		127,5 h
	Total:		150 h
<b>Subjects of the module:</b>	Business Excellence (IPM-BusinessExcellence)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Presentation; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Knowledge</u> Students are becoming familiar with success factor analysis and the EFQM Excellence Model as a success factor based framework for corporate management. They understand model criteria and criterion parts for a systematic corporate development, identify cause and effect chains by using Key Performance Indicators (KPI) and are getting acquainted with EFQM's Business Excellence concepts. Benchmarking and Self-Assessment are focused as kick-off concepts for corporate change.</p> <p><u>Professional skills</u> Students are able to get a holistic view of an organization by using the EFQM Excellence Model. They are able to identify the drivers for an organization's future success, how approaches are deployed and results are measured by appropriate key performance indicators. Students learn how to assess an organization by using the EFQM Excellence Model. They have the skills for using the lecture as a drive-up ramp for EFQM's licensed assessor trainings.</p> <p><u>Social skills</u> The students are able to discuss case study results in groups, achieve consensus by critical but constructive discussions and present final work results as a team in their research study project.</p>			

**Content:**

- Introduction to Success Factor Research and Success Factor Analysis,
- EFQM Excellence Model - Model Development, Criteria, Criterion Parts,
- Fundamental Concepts of Excellence and RADAR® Methodology (Overview),
- Case Study - Good Practice Analysis and Presentation,
- Self-Assessment und Change Management,
- Benchmarking - Methodology and Practical Case Study.

**Literature:**

- Without author. *EFQM Publications* [online]. Brussels: EFQM [Accessed on: ]. Available via: <https://www.efqm.org/>

<b>Business German - Oral Communication Skills</b>			
<b>Module abbreviation:</b>	IPM-BusinGermOralCommunSkil	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Zürn, Martina		
<b>Lecturers:</b>	Junek, Teresa		
<b>Language of instruction:</b>	German		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Business German - Oral Communication Skills (IPM-BusinGermOralCommunSkil)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Oral exam, 15 minutes (electronic remote exam § 2 Abs. 3 BayFEV)		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
Students of Business Administration should have passed Written Communication Skills			
<b>Objectives:</b>			
<u>Knowledge</u>			
<ul style="list-style-type: none"> <li>Professional and methodological competence,</li> <li>Improvement of the lexical and grammatical knowledge of the German language</li> </ul>			
<u>Professional skills</u>			
<ul style="list-style-type: none"> <li>To be able to meet the requirements in one's studies, everyday life and business in writing as well as orally</li> </ul>			
<u>Social skills</u>			
<ul style="list-style-type: none"> <li>To be able to take part in student life, business and spare time activities</li> </ul>			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>Relevant oral skills in difficult everyday situations, study and business</li> <li>Improvement of articulation and intonation, use of non-verbal and para-verbal skills</li> <li>Detailed knowledge in the correct use of prepositions</li> <li>Clarification of verbal structures, verbs with prefixes</li> <li>Business letters</li> </ul>			

- Oral presentations

**Literature:**

- FÖLDEAK, H., 2001. *Sags besser! Arbeitsbuch für Fortgeschrittene Teil 2*. ISBN 978-3190074549
- HALL, K. and B. SCHEINER, 2001. *Übungsgrammatik Deutsch als Fremdsprache für Fortgeschritten* . 1. edition. Ismaningen: Hueber / Verlag für Deutsch. ISBN 9783190074488

<b>Business German - Written Communication Skills</b>			
<b>Module abbreviation:</b>	IPM-BusinGermWrittCommunSkil	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Zürn, Martina		
<b>Lecturers:</b>	Schmidt, Budimir		
<b>Language of instruction:</b>	German		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Business German - Written Communication Skills (IPM-BusinGermWrittCommunSkil)		
<b>Frequency:</b>	Summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam, 90 minutes; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<u>Knowledge</u> Competence in subject and methodology: Ability to activate, reinforce and enhance vocabulary and grammar knowledge of the German language <u>Professional skills</u> To be able to meet oral and written standards needed for successful participation in academic courses taught in German <u>Social skills</u> Ability to better integrate in day-to-day activities of student life as well as recreation			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>• Listening comprehension of advanced audio and video material covering current events in economy, technology, politics, culture and civilization; oral and written reproduction, summaries or reports are required</li> <li>• Ability to answer questions and complete tasks based on advanced texts, interpretation of graphs, production of conclusions or summaries, writing reports</li> </ul>			

- Knowledge of noun-verb complements and ability to produce and transform temporal, causal, conditional, concessive, final and modal relations
- Linguistic preparation of presentations and papers

**Literature:**

- FÖLDEAK, Hans, . *Sag`s besser! Arbeitsbuch für Fortgeschrittene Teil 1*. 2. edition. Ismaningen: Hueber Verlag. ISBN 978-3-19-007453-2
- DREYER, and SCHMITT, . *Lehr- und Übungsbuch der deutschen Grammatik*. 1. edition. Ismaningen: Hueber Verlag. ISBN 978-3193072559

<b>Business Model Innovation</b>			
<b>Module abbreviation:</b>	IPM-Business Model Innovation	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for the module:</b>	Kögel, Dominik		
<b>Lecturers:</b>	Kögel, Dominik		
<b>Language:</b>	English		
<b>Credit Points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact Hours:		60 h
	Self-study:		90 h
	Total Effort:		150 h
<b>Subjects of the module:</b>	Business Model Innovation (IPM-Business Model Innovation)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Seminar paper and presentation; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
The number of participants is limited to a maximum of 40 persons for didactic and examination reasons. Registration on Moodle. If necessary, the dates and/or times of the events will be adjusted in Moodle.			
<b>Recommended prerequisites:</b>			
The module should preferably be taken towards the end of your studies, when you have a basic knowledge of the central subject areas of business administration - from marketing to organization to controlling and more.			
This module is addressed to German as well as international students. To allow participation of international students, this module will be taught in English. However, please feel free to write your assignment (Seminararbeit) in German if you like. We can always switch to German, where necessary: language should not be a problem.			
<b>Objectives:</b>			
In this module you will learn how to analyse existing and create new business models.			
Whether you aim to one day create your own company, you plan to invest (some of) your money on the stock exchange, you are an engineer or product manager, aim to make it into top management or inherit your family business or become a consultant, this subject will prepare you for it.			
<u>Knowledge</u>			
Understanding of what a business model is, what makes it successful (or less so), and how it all works together.			
<u>Professional Skills</u>			
Ability to create, analyse and adjust business models and to use the relevant tools and concepts.			
<u>Social Skills</u>			
Improve your understanding and communicate your ideas.			



**Content:**

Based on the relevant theories, amongst others, from Osterwalder & Pigneur as well as Gassmann and others, we will explore what a business model is, its parts, the way everything fits together. We will analyse existing successful business models and try to create new ones. You will get an understanding of related concepts, such as megatrends...

**Literature:**

Osterwalder & Pigneur (2011) Business Model Generation  
Gassmann et al. (2015) The Business Model Navigator  
Additional literature will be announced during the seminar.

<b>Spanish for professional purposes</b>			
<b>Module abbreviation:</b>	IPM-Spanishforprofessionalpurposes	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Gebhard, Christian Alexander		
<b>Lecturers:</b>	Gebhard, Christian Alexander		
<b>Language of instruction:</b>	Spanish		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Spanish for professional purposes (IPM-Spanishforprofessionalpurposes)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Paper; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<u>Qualification aims</u>			
<ul style="list-style-type: none"> <li>• Gaining fluency in oral and written communication in business contexts on an intermediate to advanced level</li> <li>• Using Spanish appropriately in given business related contexts</li> <li>• Consolidation of intercultural competence</li> </ul>			
<u>Knowledge</u>			
<ul style="list-style-type: none"> <li>• Students know technical vocabulary for oral communication for business purposes (presentations, telephone conversations, etc.) and for written communication (short reports, CV, formal letters, etc.)</li> <li>• Students know grammar structures of the Spanish language as indicated below</li> <li>• Students gain an insight into business structures and financial issues of the Spanish speaking world</li> </ul>			
<u>Professional skills</u>			
<ul style="list-style-type: none"> <li>• Students apply their knowledge about Spanish speaking countries in formal situations</li> <li>• Students establish business contacts in the Spanish speaking world</li> </ul>			
<u>Social skills</u>			
<ul style="list-style-type: none"> <li>• Students understand and apply the communication style of Spanish speaking cultures</li> </ul>			

<ul style="list-style-type: none"> <li>• Students work together in small groups</li> </ul>
<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• Consolidation and broadening of grammatical structures such as the tenses and mood and lexical structures such as verbal phrases</li> <li>• Practicing oral and written communication in business contexts with a special focus on strategies and behavior for discussions, presentations and phone calls, as well as short reports, CV, and formal letters.</li> <li>• Business subjects will be treated highlighting their cultural specificities on the background of a particular Spanish speaking country</li> <li>• Practicing fluent and appropriate oral expressions of summarizing and describing complex facts and circumstances and expressing one's personal opinion</li> </ul>
<p><b>Literature:</b></p> <p>Teaching Material:</p> <ul style="list-style-type: none"> <li>• Script</li> </ul> <p>Recommended:</p> <ul style="list-style-type: none"> <li>• Meta profesional. B1.             <ol style="list-style-type: none"> <li>1. Kursbuch + Audio-CD: 978-3-12-515470-4</li> <li>2. Übungsbuch + Audio-CD: 978-3-12-515471-1</li> </ol> </li> <li>• Tano, Marcelo (2009): Expertos. Curso avanzado de español orientado al mundo del trabajo. Difusión/Klett.             <ol style="list-style-type: none"> <li>1. Libro del alumno + Audio-CD + DVD: 978-3-12-515595-4 (3-12-515595-9)</li> <li>2. Cuaderno de ejercicios + Audio-CD: 978-3-12-515596-1</li> </ol> </li> <li>• Abegg, Birgit / Martínez Cestero, Antonio (2006): Comunicación empresarial. Hueber.             <ol style="list-style-type: none"> <li>1. Students' book: 978-3-19-004030-8</li> <li>2. Audio-CD: 978-3-19-034030-9</li> </ol> </li> </ul>

<b>Cross-cultural Management and Communication</b>			
<b>Module abbreviation:</b>	IPM-CrossCulturMgmtComm	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Schugk, Michael		
<b>Lecturers:</b>	Schugk, Michael		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Cross-cultural Management and Communication (IPM-CrossCulturMgmtComm)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam, 90 minutes and seminar paper; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<u>Knowledge</u>			
<ul style="list-style-type: none"> <li>• Knowledge of extensive theoretical basics for identification of intercultural differences and management practices</li> </ul>			
<u>Professional skills</u>			
<ul style="list-style-type: none"> <li>• Capability to select situation specifically the relevant theoretical basics for different situations in business practice</li> <li>• Capability to apply situation specifically the relevant theoretical basics in the field of cross-cultural management for problem-solving</li> </ul>			
<u>Social skills</u>			
<ul style="list-style-type: none"> <li>• Development of intercultural (communication) competence</li> </ul>			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>• Definition and models in regard to the culture term</li> <li>• Intercultural manifestations and instruments for interpersonal intercultural communication</li> </ul>			

- Culture-comparing studies according to Kluckhohn and Strodtbeck, Hall, Hofstede, Trompenaars and House
- Cultural neuroscience
- Intercultural communication psychology

**Literature:**

- BROWAEYS, Marie-Joëlle and Roger PRICE, 2011. *Understanding cross-cultural management*. 2. edition. Harlow ; Munich [u.a.]: Prentice Hall. ISBN 978-0-273-73295-2

<b>Data science and empirical research in business and economics</b>			
<b>Module abbreviation:</b>	Data science and empirical research	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Dauth, Christine		
<b>Lecturers:</b>	Dauth, Christine		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Data science and empirical research in business and economics (Data science and empirical research)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Seminar paper and presentation; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
Basic statistics			
<b>Objectives:</b>			
<p><u>Knowledge</u></p> <p>Students become familiar with different data types and with one data set, the Linked Personnel Panel, in particular. They learn how to handle the programming language R in order to conduct basic descriptive analyses. They learn how to write and structure an empirical research paper and know the major guidelines of academic writing.</p> <p><u>Professional skills</u></p> <p>This course enables students to conduct basic data analyses. They can critically assess the validity of other empirical results that they are confronted with in corporate environments and can distinguish between correlation and causation. They will create value-added for firms with their ability to familiarize themselves quickly with new complex tasks, sort information, and comprehensively visualize and present results. In the short run, this course prepares the students to write an (empirical) master thesis and makes them more attractive for firms who look for interns or employees. In the medium run, this course is a good preparation for continuing courses in data analysis, and in the long run, this course prepares students for a career in data science-related jobs.</p>			

**Social skills**

Working in groups, students practice their communication and team working skills. They learn to self-organize their workload and train their skills in time management to successfully and jointly finish the project. This will improve their self-esteem.

**Content:**

The progressing digitization implies that institutions and firms collect more and more data, for example, on production processes, employees, and customers. Firms can use these data to better forecast business developments or to analyze the impact of management decisions.

In this practical course, students learn hands-on how to handle and exploit real data in order to answer business-related problems. The students apply basic statistical methods and the programming language R and learn to distinguish between correlation and causality. Moreover, students learn how to visualize, document, and present the results of their data analysis comprehensively in a structured research paper.

The course comprises lectures and practical sessions. Moreover, groups of students analyze data themselves to answer a given research question. Grading is based on a five page thesis (excluding tables and figures) that summarizes the results of the group work.

The major outline of the course:

- Why conduct empirical research?
- Introduction to the Linked Personnel Panel (LPP) and the programming language R
- Dealing with complex data (data management, data preparation, data analysis)
- Structuring a research paper/thesis
- Tipps for academic writing

**Literature:**

- KRONTHALER, Franz and Silke ZÖLLNER, 2021. *Data analysis with RStudio: an easygoing introduction*. Berlin, Germany: Springer Spektrum. ISBN 978-3-662-62517-0, 3-662-62517-2

<b>E-Business</b>			
<b>Module abbreviation:</b>	IPM-EBusiness	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Knüpfper, Wolf		
<b>Lecturers:</b>	Knüpfper, Wolf		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 2 SWS		
<b>Workload:</b>	Contact hours:		22,5 h
	Self-study:		127,5 h
	Total:		150 h
<b>Subjects of the module:</b>	E-Business (IPM-EBusiness)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam, 90 minutes; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Knowledge</u> The students know about the potentials and limits of e-business. They are familiar with the economic effects in the "new economy" and the basic structure business models in e-business and they have basic knowledge of methods to manage e-business projects.</p> <p><u>Professional skills</u> The students are able to evaluate the business models of existing offerings on the internet and they can develop concepts of sustainable e-business solutions. They are familiar with the tasks and problems that have to be solved in order to implement and operate such solutions.</p> <p><u>Social skills</u> The students are familiar with the most important impacts of e-business on society. They understand the interdisciplinary problems within e-business project teams and know approaches to handle them.</p>			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>• Introduction to e-business (definition and potential, most important current developments),</li> <li>• Impacts of e-business on society and vice versa,</li> <li>• Evaluation and development of business models for e-business,</li> </ul>			



- Characteristics and management of e-business projects,
- Specific problems of the implementation and the operation of e-business systems.

**Literature:**

- CHAFFEY, Dave, 2009. *E-business and e-commerce management: strategy, implementation and practice*. 4. edition. Harlow [u.a.]: FT Prentice Hall. ISBN 978-0-273-71960-1 (pbk.), 0-273-71960-2 (pbk.)
- TURBAN, Efraim, 2010. *Electronic commerce 2010: a managerial perspective*. 6. edition. Boston ; Munich u.a.: Pearson. ISBN 978-0-13-703465-9, 0-13-703465-2

<b>English for Specific Purposes</b>			
<b>Module abbreviation:</b>	English f. specific purposes	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	McIntosh, Sabine		
<b>Lecturers:</b>	McIntosh, Sabine		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	English for Specific Purposes (English f. specific purposes)		
<b>Frequency:</b>	Winter and summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Seminar paper and presentation; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
English knowledge according to the European Frame of Reference level B2/C1			
<b>Objectives:</b>			
<u>Professional and methodological competence</u>			
<ul style="list-style-type: none"> <li>• Students deepen existing language knowledge in a specific subject area and expand their knowledge of specific terminology.</li> <li>• Students apply existing subject knowledge and competences from the two other fields of study (business and culture) in the foreign language.</li> <li>• Students independently access information via the Internet.</li> <li>• Students describe and evaluate strategies and concepts from the chosen subject area, orally or in writing, depending on the task.</li> <li>• They further develop existing meeting strategies, expand their subject-related techniques for discussion, moderation and presentation and improve their negotiation skills with special consideration of intercultural relations and intercultural communication.</li> </ul>			
<u>Personal competence</u>			
<ul style="list-style-type: none"> <li>• Students reflect on the goals they have reached and design the necessary processes independently and sustainably.</li> </ul>			

<p><u>Social competence</u></p> <ul style="list-style-type: none"> <li>• Students engage responsibly and in a collegial manner in the team and solve problems and tasks together and with foresight.</li> <li>• They explain complex topics in an understandable and correct way, argue their point of view and develop it further with their peers.</li> <li>• Students give their fellow students appreciative feedback within the framework of their presentation</li> <li>• They describe and evaluate strategies and concepts from the chosen topic area, orally or in writing, depending on the assignment.</li> </ul> <p>Operational competence</p> <ul style="list-style-type: none"> <li>• The students design the processes necessary for the development of the subject area in a goal-oriented and efficient way, taking into account the team constellation as well as their own goals, and use the necessary linguistic means correctly.</li> <li>• They design their texts in the target language in an inclusive, fair and gender-neutral way.</li> </ul> <p>Specific competence</p> <ul style="list-style-type: none"> <li>• Intercultural competence: Students are aware of the cultural diversity in modern companies and the need for special consideration of intercultural relations and intercultural communication in everyday professional life.</li> <li>• Language competence Students have a competent command of appropriate specialised language.</li> <li>• Digital competences Students use electronic tools to organise their group work, to communicate in the target language and to create presentations, posters, etc.</li> </ul>
<p><b>Content:</b></p> <ul style="list-style-type: none"> <li>• The module teaches context-related specialist language from a professionally relevant thematic target area at level B2/C1. The target area can vary depending on the students' interests.</li> <li>• The module introduces the conventions of subject-oriented communication in a global context. Students determine and apply specialised language, which they will use in their future professional environment. They develop strategies to promote effective addressee-specific specialised language competence. These are either specific skills (e.g. creating a professional application portfolio) or appropriate specialised language register, e.g. for the chosen focus.</li> <li>• Subject areas may include:             <ul style="list-style-type: none"> <li>- Job Application / Recruitment / Human Resources</li> <li>- Hospitality and Tourism</li> <li>- Accounting and Finance / International Trade</li> <li>- Marketing / International Management / Working Across Cultures</li> </ul> </li> </ul>
<p><b>Literature:</b></p> <p>Will be specified at the beginning</p>

<b>German 1 as a Foreign Language (beginners)</b>			
<b>Module abbreviation:</b>	IPM-Germ1ForeignLanguaBegin	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Zürn, Martina		
<b>Lecturers:</b>	Wittmann, Dimitra		
<b>Language of instruction:</b>	German		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	German 1 as a Foreign Language (beginners) (IPM-Germ1ForeignLanguaBegin)		
<b>Frequency:</b>	Winter and summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Knowledge</u> The students have command of the basic principles of the German language so that they can interact in a simple way successfully. Students can ask and answer simple questions (eg for the way, time, library matters, lunch in university canteen etc.), initiate and respond to simple statements in areas of immediate need or on very familiar topics. Students can discuss everyday practical issues in a simple way e.g. what to do, where to go and make arrangements to meet. Students learn understand everyday expressions aimed at the satisfaction of simple needs of a concrete type. Furthermore the students become familiar with cultural specifications of Germany.</p> <p><u>Professional skills</u> Reception and production strategies are employed constantly during interaction. Students can recognize familiar names and words and very basic phrases on simple notices in the most common everyday situations. The Students can get an idea of the content of simpler informational material and short descriptions. Students can understand phrases and the highest frequency vocabulary related to areas of most immediate relevance eg. shopping, local area, employment, university issues. Students can catch the main points in short, clear messages and announcements which is essential eg. for travelling etc.</p>			

**Content:**

It is the subject of the course to offer exchange students the chance to communicate easily and interculturally adequate in a German environment and continually advance their language competences in order to deal with different subjects in different situations and scenarios in Germany effectively.

**Literature:**

Will be specified at the beginning

<b>German 2 as a Foreign Language (intermediate)</b>			
<b>Module abbreviation:</b>	IPM-Germ2ForeignLanguaInterm	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Zürn, Martina		
<b>Lecturers:</b>	Wittmann, Dimitra		
<b>Language of instruction:</b>	German		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	German 2 as a Foreign Language (intermediate) (IPM-Germ2ForeignLanguaInterm)		
<b>Frequency:</b>	Winter and summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Knowledge</u> The students can understand main points of clear standard of familiar matters regularly encountered at university and areas linked (internship) etc., they can make arrangements and understand topics of personal or professional interest. They can enter unprepared into conversation on topics that are familiar, of personal interest or pertinent to everyday life. The students can deal with most situations likely to arise whilst travelling in an area where the language is spoken.</p> <p><u>Professional skills</u> The students can understand texts that consist mainly of high frequency everyday or job-related language. Reception and production strategies are employed constantly during interaction. They can describe experiences, events and ambitions which are university- and job-related issues (concerning internship). They can communicate with colleagues at their internships in an adequate way if communication is based on topics which are familiar. The students can briefly give reasons and explanations for opinions and plans in an appropriate way (related to B1-level). Furthermore, the students become familiar with cultural specifications of Germany especially related to professional environments.</p>			

**Content:**

It is the subject of the course to offer exchange students the chance to communicate easily and intercultur-ally adequate in a German environment and continually advance their language competences in order to deal with different subjects in different situations and scenarios in Germany effectively. On an adequate level according to level B1.

**Literature:**

- MITTLER, Alexandra, 2012. *DaF kompakt A1-B1 Grammatik: Deutsch als Fremdsprache für Erwachsene*. 1. edition. Stuttgart: Klett. ISBN 978-3-12-676193-2

<b>Global Marketing</b>			
<b>Module abbreviation:</b>	IPM-Global_Marketing	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Schugk, Michael		
<b>Lecturers:</b>	Schugk, Michael		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Global Marketing (IPM-Global_Marketing)		
<b>Frequency:</b>	Summer semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam, 90 minutes; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<u>Knowledge</u>			
<ul style="list-style-type: none"> <li>• Competence and applicability in the learned theoretical contents with an orientation towards problems which arrive when coordinating</li> <li>• The ability to use one's learned problem solving skills in all parts of International Marketing</li> </ul>			
<u>Professional skills</u>			
<ul style="list-style-type: none"> <li>• Complete overview over the approach towards International Marketing according to Backhaus et al</li> <li>• Expertise in Going international and Being international as fundamental topics of International Marketing</li> <li>• Understanding of the special features of International Marketing</li> </ul>			
<u>Social skills</u>			
<ul style="list-style-type: none"> <li>• Recognition of international and intercultural differences</li> <li>• Development of soft skills in an international context</li> </ul>			



**Content:**

Going international:

- Problem of coordination concerning International Marketing
- Evaluation and selection of markets
- Strategies for market entry

Being international:

- Problem of coordination on markets growing together
- Coordination strategies on markets growing together
- Strategies for market entry
- Coordination demand covering strategies
- Coordination demand reducing strategies

**Literature:**

- BACKHAUS, Klaus, Joachim BÜSCHKEN and Markus VOETH, 2006. *International marketing*. [. edition. Houndmills, Basingstoke [u.a.]: Palgrave Macmillan. ISBN 978-0-333-96388-3

<b>Introduction to Quality Management</b>			
<b>Module abbreviation:</b>	IPM - Introduction to Quality Management	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Hedderich, Barbara		
<b>Lecturers:</b>	Wilisch, Christian		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Introduction to Quality Management		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Seminar Paper and Presentation; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Knowledge</u></p> <p>The students gain a basic understanding of the historic developments that led to today's culture of quality management. They understand the concept of 'quality' in an industrial and B2B environment. They have a fundamental understanding of modern quality management philosophies and their implementation.</p> <p><u>Professional Skills</u></p> <p>The students gain the ability to understand quality management in organizational contexts. The students can apply quality management and quality assurance techniques.</p> <p><u>Social Skills</u></p> <p>Students can carry out independent literature search in a quality management topic and present their findings in a seminar setting.</p>			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>• What is 'quality'?</li> <li>• Historical context of quality management</li> <li>• Financial aspects of quality management</li> </ul>			

- Quality techniques and their applications
- Process control techniques
- Critical assessment of QM approaches

**Literature:**

- IMAI, Masaaki, 2012. *Gemba kaizen: a commonsense approach to a continuous improvement strategy*. 2. edition. New York, NY [u.a.]: McGraw Hill. ISBN 0-07-179035-7, 978-0-07-179035-2
- CHALKIADAKIS, Ioannis , 2019. *New Product Development with the use of Quality Function*. ISBN 978-3330344181
- MONTGOMERY, Douglas C., 2019. *Introduction to statistical quality control*. E. edition. Hoboken, NJ: Wiley. ISBN 978-1-119-65711-8, 978-1-118-98915-9

<b>Lean Production - Manufacturing Excellence</b>			
<b>Module abbreviation:</b>	IPM-LeanProductManufactExcell	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Slama, Stefan		
<b>Lecturers:</b>	Slama, Stefan		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Lean Production - Manufacturing Excellence (IPM-LeanProductManufactExcell)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Seminar paper and presentation; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Knowledge</u> Students are becoming familiar with expert knowledge and scientific concepts and methods in the field of Lean Production and Manufacturing Excellence. They understand the most important aims of production without waste of resources, lean thinking in processes and organization, helpful tools and they will know methods and tasks to solve problems in efficiency.</p> <p><u>Professional skills</u> Students are able to solve tasks autonomous and are able to assess problems in the field of Lean Production</p> <p><u>Social skills</u> The students are able to discuss case study results in groups, achieve consensus by critical but constructive discussions and present final work results as a team, also their research study project</p>			
<b>Content:</b>			
<ul style="list-style-type: none"> <li>• Definition, Meaning, Opportunities, Method Overview and Structure of Lean Production</li> <li>• Team Work, 5S, Standards</li> <li>• Muda Elimination, TPM (Total Productive Maintenance), JIT (Just In Time)</li> <li>• Employee Involvement, Quality First, etc.</li> </ul>			

- Strengthening of key aspects with additional trainings and exercises in team-work, critically considerations of effects/needs and presentation of results

**Literature:**

Will be specified at the beginning

<b>Project Management</b>			
<b>Module abbreviation:</b>	IPM-ProjectManagement	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)	Elective Module	1 or 2
<b>Responsible for module:</b>	Slama, Stefan		
<b>Lecturers:</b>	Hager, Uwe		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	5 ECTS / 4 SWS		
<b>Workload:</b>	Contact hours:		45 h
	Self-study:		105 h
	Total:		150 h
<b>Subjects of the module:</b>	Project Management (IPM-ProjectManagement)		
<b>Frequency:</b>	Winter semester		
<b>Module duration:</b>	1 semester		
<b>Lecture types:</b>	Seminar		
<b>Examinations:</b>	Written exam, 120 minutes; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Prerequisites according examination regulation:</b>			
Prerequisite for the granting of credit points is the passing of the respective module examination in accordance with the SPO resp. study plan.			
<b>Recommended prerequisites:</b>			
None			
<b>Objectives:</b>			
<p><u>Professional Skills</u> The students know the basics of project management as a project employee and a project manager. They master the problem solving phase, the planning phase, change management, risk management, and the WBS. They understand the connections in parallel and serial processes and the associated risks.</p> <p><u>Knowledge Skills</u> They master the problem solving phase, the planning phase, change management, risk management, and the WBS. The students are able to all problems in the project cycle to identify themselves. The students know the basics of project management as a project employee and a project manager. The students gain experience in a real project work.</p> <p><u>Social Skills</u> Students get an overview of team building and leadership skills. The students know the basics of project management as a project employee and a project manager.</p>			
<b>Content:</b>			
Besides the basics, such as definition, meaning and structure of project management, there will be forms of organizations, approach and project management tools critically considered.			

Management of staff and teams are discussed and practiced. Various forms of communication and techniques of facilitation and presentation will be practiced.

The goal is a holistic project management approach.

**Literature:**

Will be specified at the beginning

## 2.4 Master Thesis



<b>Master Thesis</b>			
<b>Module abbreviation:</b>	IPM-ProductManagement	<b>Reg.no.:</b>	
<b>Curriculum:</b>	<b>Programme</b>	<b>Module type</b>	<b>Semester</b>
	International Product and Service Management (SPO WS 16/17)		3
<b>Responsible for module:</b>	Director of the program		
<b>Lecturers:</b>	Two advisors, at least one of them has to be a regular professor of the University of Applied Sciences Ansbach		
<b>Language of instruction:</b>	English		
<b>Credit points / SWS:</b>	30 ECTS		
<b>Workload:</b>	Contact hours:		10 h
	Self-study:		890 h
	Total:		900 h
<b>Subjects of the module:</b>	Product Management (IPM-ProductManagement)		
<b>Frequency:</b>	Winter and summer semester		
<b>Module duration:</b>	1 semester		
<b>Examinations:</b>	Master Thesis; graded		
<b>Usability:</b>	Master International Product and Service Management		
<b>Premises for Participation:</b>			
At least 50 ECTS Points are necessary to apply for the master thesis.			
<b>Objectives:</b>			
<u>Knowledge</u> The students get a deep insight into the topic they treat.			
<u>Professional skills</u> The students should be able to raise a given theme in a proper academic way, that includes			
<ul style="list-style-type: none"> <li>• Finding a relevant problem or project.</li> <li>• To list the main parts of a research work as well as to establish research goals. To establish a regular/periodic meetings schedule with the adviser.</li> <li>• To look for documents related to the theme and to select the most appropriate according to the research work, which means the candidate must know the State of the Art. This State of the Art may not be the same for an academic and a professional Final Research Project, e.g. the literature and journals used can vary. But even if taking into account the differences between the two approaches the basic requirement of using the scientific method stays the same. Students have to look in a project thesis for an adequate method to analyze e.g. a firm specific problem and to find based on this analysis an adequate method for solving it, showing in their thesis their deliberation process and as such showing that they master the relevant literature.</li> <li>• To use main tools and resources for collecting information: observation, interview, survey, etc.</li> <li>• To write down bibliography and references of consulted documents in an adequate way</li> </ul>			
<u>Social skills</u> Students are able to organize their work on their own (constitution of project structure (time schedule, work packages). They master the challenge of applying scientific methods to a given problem in a given time frame.			

**Content:**

The master thesis can have a more theoretical or a more applied research focus. In the latter case it will normally be based on a project developed at firm.

The student will define and realize her/his research project independently and set down its results in a final academic paper. She/he will be advised by a professor.

The project should belong to the field of Product and Service Management. A master thesis with a more theoretical orientation implies a deeper state of the art revision and a content development based on standard guidelines which are similar to a research paper. It implies to expand the limits of scientific knowledge in a specific area known but not excluding other approaches; since in most cases it could imply the starting point of the Doctoral dissertation.

In a more applied final project a revision of the state of the art is also expected when choosing an adequate methodology for handling the firm specific problem.

Especially important is the well adapted transfer of the chosen methodology to the problem at hand which includes the evaluation of the solution following academic standards.