



Modulhandbuch

Master of Science (M.Sc.)

Global Technology and Innovation Management & Entrepreneurship

Joint Master

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Studiengangsbeschreibung

Inhalt

Der englischsprachige Joint-Masterstudiengang **Global Technology and Innovation Management & Entrepreneurship (G-TIME)** ist ein zweijähriges Studium, das von einem internationalen Konsortium renommierter Hochschulen angeboten wird. Dem Konsortium gehören folgende Partner an: **Aalborg University** (Dänemark), **Kaunas University of Technology** (Litauen), **Manipal University** (Indien), **Ritsumeikan Asia Pacific University** (Japan), **Technische Universität Hamburg-Harburg** (Deutschland) und **University of Strathclyde** (Schottland). G-TIME-Studierende wechseln nach dem ersten gemeinsamen Studienjahr in Hamburg für das zweite Programmjahr eine der internationalen Partnerhochschulen.

Der MSc. Global Technology and Innovation Management & Entrepreneurship vermittelt Studierenden neuste Forschungs- und Lehrinhalte auf den Gebieten des Technologie- und Innovationsmanagements inklusive Themen der Unternehmensgründung, mittels derer Unternehmen egal welcher Größenordnung erfolgreich in einer globalisierten Weltwirtschaft bestehen können.

Berufliche Perspektiven

G-TIME-Absolventen, unterstützt durch ein während des Studiums geknüpftes Netzwerk von Praxisvertretern sowie G-TIME-Alumni, bieten sich Berufseinstiegsmöglichkeiten in:

- Unternehmen jeder Größenordnung, welche das Ziel der Entwicklung innovativer Produkte und Dienstleistungen verfolgen
- Unternehmensberatungen unterschiedlichster Spezialisierung (u.a. Technologiebewertung oder Innovations- oder Change-Management)
- Staatlichen Institutionen, die sich mit Fragestellungen u.a. der Innovationspolitik, Cluster-Management oder Innovationsstrategieentwicklung beschäftigen
- Forschungseinrichtungen wie z.B. Technischen Universitäten

Lernziele

Der MSc. Global Technology and Innovation Management & Entrepreneurship vermittelt Studierenden neuste Forschungs- und Lehrinhalte auf den Gebieten des Technologie- und Innovationsmanagements sowie der Unternehmensgründung, mittels derer Unternehmen egal welcher Größenordnung erfolgreich in einer globalisierten Weltwirtschaft bestehen können. G-TIME adressiert u.a. folgende Themen:

- Eine erweiterte Perspektive des Innovationsmanagement, die wichtige Felder wie z.B. Technologiemanagement, Unternehmensgründung, neuste Aspekte des F&E-Management, globales Designmanagement, Produkt- und Serviceplanung disziplinen- und themenübergreifend einbezieht.
- Die Einbindung neuester Ergebnisse aus den interdependenten Forschungsfeldern "Global Technology and Innovation Management & Entrepreneurship" der G-TIME-Partnerhochschulen.
- Fähigkeiten, die sowohl für große multinational tätige Konzerne wie auch für kleine und mittelständische Unternehmen inklusive Start-ups anwendbar und vorteilbringend sind.
- Eine praxisnahe Perspektive des Technologie- und Innovationsmanagements, die durch Industrieprojekte und "Problem Based Learning Elemente" vertieft wird.

Studiengangsstruktur

Das Programm wird über 24 Monate als Vollzeitstudium durchgeführt. Es ist in 4 Semester untergliedert. Die ersten beiden Semester verbringen die Studierenden allesamt an der Technischen Universität Hamburg-Harburg (TUHH), bevor sie - entsprechend ihrer Interessen, das zweite Jahr an einer der internationalen Partnerhochschulen verbringen.

In den ersten beiden Semestern an der TUHH werden die Grundlagen des Technologie- und Innovationsmanagements in einem sich zunehmend globalisierenden Wettbewerbsumfeld vermittelt. Dies erfolgt in enger Kooperation mit der Praxis. Gleiches gilt auch für den Bereich Existenzgründung, der durch Pflicht- sowie Wahlmodule angeboten wird.

Die Studieninhalte des dritten Semesters hängen von der Wahl der Partnerhochschule des zweiten Studienjahres ab. Entsprechend ihrer besonderen Fachausrichtungen bieten die internationalen Partnerinstitutionen Kurse an, welche die Inhalte des ersten Jahres komplementieren.

Im vierten Semester schreiben alle Studierenden ihre Masterarbeit.

Fachmodule der Kernqualifikation

Der englischsprachige Joint-Masterstudiengang **Global Technology and Innovation Management & Entrepreneurship (G-TIME)** ist ein zweijähriges Studium, das von einem internationalen Konsortium renommierter Hochschulen angeboten wird. Dem Konsortium gehören folgende Partner an: **Aalborg University** (Dänemark), **Kaunas University of Technology** (Litauen), **Manipal University** (Indien), **Ritsumeikan Asia Pacific University** (Japan), **Technische Universität Hamburg-Harburg** (Deutschland) und **University of Strathclyde** (Schottland). G-TIME-Studierende wechseln nach dem ersten gemeinsamen Studienjahr in Hamburg für das zweite Programmjahr eine der internationalen Partnerhochschulen.

Der MSc. Global Technology and Innovation Management & Entrepreneurship vermittelt Studierenden neuste Forschungs- und Lehrinhalte auf den Gebieten des Technologie- und Innovationsmanagements inklusive Themen der Unternehmensgründung, mittels derer Unternehmen egal welcher Größenordnung erfolgreich in einer globalisierten Weltwirtschaft bestehen können.

Modul M1599: Technology Management (GTIME)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Technologiemanagement (GTIME) (L2423)	Vorlesung	3	3
Technologiemanagement Seminar (GTIME) (L2424)	Projekt-/problemorientierte Lehrveranstaltung	2	3

Modulverantwortlicher	Prof. Tim Schweisfurth
Zulassungsvoraussetzungen	None
Empfohlene Vorkenntnisse	Bachelor knowledge in business management
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht
Fachkompetenz <i>Wissen</i> Students will gain deep insights into: International R&D-Management Technology Timing Strategies • Technology Strategies and Lifecycle Management (I/II) • Technology Intelligence and Planning Technology Portfolio Management • Technology Portfolio Methodology • Technology Acquisition and Exploitation • IP Management Organizing Technology Development • Technology Organization & Management • Technology Funding & Controlling <i>Fertigkeiten</i> The course aims to: • Develop an understanding of the importance of Technology Management - on a national as well as international level • Equip students with an understanding of important elements of Technology Management (strategic, operational, organizational and process-related aspects) • Foster a strategic orientation to problem-solving within the innovation process as well as Technology Management and its importance for corporate strategy • Clarify activities of Technology Management (e.g. technology sourcing, maintenance and exploitation) • Strengthen essential communication skills and a basic understanding of managerial, organizational and financial issues concerning Technology-, Innovation- and R&D-management. Further topics to be discussed include: • Basic concepts, models and tools, relevant to the management of technology, R&D and innovation • Innovation as a process (steps, activities and results) Personale Kompetenzen <i>Sozialkompetenz</i> • Interact within a team • Raise awareness for global issues <i>Selbstständigkeit</i> • Gain access to knowledge sources • Discuss recent research debates in the context of Technology and Innovation Management • Develop presentation skills • Discussion of international cases in R&D-Management	
Arbeitsaufwand in Stunden	Eigenstudium 110, Präsenzstudium 70
Leistungspunkte	6
Studienleistung	Keine
Prüfung	Klausur
Prüfungsdauer und -umfang	90 min
Zuordnung zu folgenden	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Pflicht

Curricula

Lehrveranstaltung L2423: Technology Management (GTIME)	
Typ	Vorlesung
SWS	3
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 48, Präsenzstudium 42
Dozenten	Prof. Tim Schweisfurth
Sprachen	EN
Zeitraum	WiSe
Inhalt	The role of technology for the competitive advantage of the firm and industries; Basic concepts, models and tools for the management of technology; managerial decision making regarding the identification, selection and protection of technology (make or buy, keep or sell, current and future technologies). Theories, practical examples (cases), lectures, interactive sessions and group study. This lecture is part of the Module Technology Management and can not be separately choosen.
Literatur	Leiblein, M./Ziedonis, A.: Technology Strategy and Innoavation Management, Elgar Research Collection, Northhampton (MA) 2011

Lehrveranstaltung L2424: Technology Management Seminar (GTIME)	
Typ	Projekt-/problembasierte Lehrveranstaltung
SWS	2
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 62, Präsenzstudium 28
Dozenten	Prof. Tim Schweisfurth
Sprachen	EN
Zeitraum	WiSe
Inhalt	Beside the written exam at the end of the module, students have to give one presentation (RE) on a research paper and two presentations as part of a group discussion (GD) in the seminar in order to pass. With these presentations it is possible to gain a bonus of max. 20% for the exam. However, the bonus is only valid if the exam is passed without the bonus.
Literatur	See lecture Technology Management.

Modul M1602: Product Planning (GTIME)				
Lehrveranstaltungen				
Titel		Typ	SWS	LP
Produktplanung (GTIME) (L2425)		Vorlesung	3	3
Produktplanung Seminar (GTIME) (L2426)		Projekt-/problembasierte Lehrveranstaltung	2	3
Modulverantwortlicher		Prof. Moritz Göldner		
Zulassungsvoraussetzungen		None		
Empfohlene Vorkenntnisse		Good basic-knowledge of Business Administration		
Modulziele/ angestrebte Lernergebnisse		Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>		Students will gain insights into: Product Planning • Process • Methods Design thinking • Process • Methods • User integration		
<i>Fertigkeiten</i>		Students will gain deep insights into: Product Planning • Process-related aspects • Organisational-related aspects • Human-Ressource related aspects • Working-tools, methods and instruments		
Personale Kompetenzen <i>Sozialkompetenz</i>		• Interact within a team • Raise awareness for globabl issues		
<i>Selbstständigkeit</i>		• Gain access to knowledge sources • Interpret complex cases • Develop presentation skills		
Arbeitsaufwand in Stunden		Eigenstudium 110, Präsenzstudium 70		
Leistungspunkte		6		
Studienleistung		Verpflichtend Bonus	Art der Studienleistung	Beschreibung
		Ja 20 %	Übungsaufgaben	Erfolgreiche Teilnahme PBL-Übung
Prüfung		Klausur		
Prüfungsdauer und -umfang		90 min		
Zuordnung zu folgenden Curricula		Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Pflicht		

Lehrveranstaltung L2425: Product Planning (GTIME)	
Typ	Vorlesung
SWS	3
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 48, Präsenzstudium 42
Dozenten	Prof. Moritz Göldner
Sprachen	EN
Zeitraum	WiSe
Inhalt	Product Planning Process This integrated lecture is designed to understand major issues, activities and tools in the context of systematic product planning, a key activity for managing the front-end of innovation, i.e.: • Systematic scanning of markets for innovation opportunities • Understanding strengths/weakness and specific core competences of a firm as platforms for innovation • Exploring relevant sources for innovation (customers, suppliers, Lead Users, etc.) • Developing ideas for radical innovation, relying on the creativeness of employees, using techniques to stimulate creativity and creating a stimulating environment • Transferring ideas for innovation into feasible concepts which have a high market attractively Voluntary presentations in the third hour (articles / case studies) - Guest lectures by researchers
Literatur	Ulrich, K./Eppinger, S.: Product Design and Development, 2nd. Edition, McGraw-Hill 2010

Lehrveranstaltung L2426: Product Planning Seminar (GTIME)	
Typ	Projekt-/problembasierte Lehrveranstaltung
SWS	2
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 62, Präsenzstudium 28
Dozenten	Prof. Moritz Göldner
Sprachen	EN
Zeitraum	WiSe
Inhalt	Seminar is integrative part of the Module Product Planning (GTIME). For content see lecture information. The seminar can not be chosen independantly.
Literatur	See lecture information "Product Planning".

Modul M1601: Foundations of Corporate Management (GTIME)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Grundlagen der Unternehmensführung (GTIME) (L2417)	Vorlesung	2	2
Grundlagen der Unternehmensführung (GTIME) - Seminar (L2825)	Seminar	2	1
Grundlagen des Internationalen Managements (GTIME) (L2419)	Vorlesung	2	2
Grundlagen des Internationalen Managements (GTIME) - Seminar (L2826)	Seminar	2	1
Modulverantwortlicher	Dr. Stephan Buse		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 68, Präsenzstudium 112		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	ca. 10 Seiten schriftliche Ausarbeitung		
Zuordnung zu folgenden Curricula	Global Innovation Management: Kernqualifikation: Wahlpflicht Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Pflicht		

Lehrveranstaltung L2417: Foundations of Business Management (GTIME)	
Typ	Vorlesung
SWS	2
LP	2
Arbeitsaufwand in Stunden	Eigenstudium 32, Präsenzstudium 28
Dozenten	Dr. Stephan Buse
Sprachen	EN
Zeitraum	WiSe
Inhalt	In addition to the classical lecture approach, case study analyses and the implementation of a business simulation are used. This course teaches the relevant elements of strategic business management. It covers various areas of business administration (e.g. strategic management and aspects of marketing). Upon completion of the course, students should understand different perspectives on the topics and know in which situations which tools can be used and what the limitations of these models/concepts are. Students will be able to integrate future strategy and business model concepts into the taxonomy of approaches. The course thus provides an introduction to the most important principles and concepts necessary to understand how companies operate in today's business world. This includes the analysis of an extremely dynamic, increasingly globalizing competitive environment as well as the analysis of the required internal (core) competencies. It also aims to develop analytical skills that facilitate problem-solving and strategic decision-making activities in companies. In addition to the classical lecture approach, case study analyses and the execution of a business simulation are used.
Literatur	Johnson et al.: Strategisches Management - Eine Einführung: Analyse, Entscheidung und Umsetzung, Pearson Studium, 12. Auflage Michael E. Porter: Wettbewerbsstrategie: Methoden zur Analyse von Branchen und Konkurrenten, Campus Verlag, 12. Auflage Prahalad, C.K./ Hamel, G.: The Core Competence of the Corporation, in: Business Review, 68/3 1990 Kim, W.C./ Mauborgne, R.: Blue Ocean Strategy, in: Harvard Business Review, October 2004

Lehrveranstaltung L2825: Foundations of Business Management (GTIME) - Seminar	
Typ	Seminar
SWS	2
LP	1
Arbeitsaufwand in Stunden	Eigenstudium 2, Präsenzstudium 28
Dozenten	Dr. Stephan Buse, Stephan Bergmann
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Lehrveranstaltung L2419: Foundations of International Management (GTIME)	
Typ	Vorlesung
SWS	2
LP	2
Arbeitsaufwand in Stunden	Eigenstudium 32, Präsenzstudium 28
Dozenten	Dr. Stephan Buse
Sprachen	EN
Zeitraum	SoSe
Inhalt	This course covers the basics of international management. Among other things, students learn about various forms of market selection and market entry strategies as well as methods for determining the optimal time to enter foreign markets. In addition to the classical lecture approach, case study analyses and the execution of a business simulation are used.
Literatur	

Lehrveranstaltung L2826: Foundations of International Management (GTIME) - Seminar	
Typ	Seminar
SWS	2
LP	1
Arbeitsaufwand in Stunden	Eigenstudium 2, Präsenzstudium 28
Dozenten	Dr. Stephan Buse
Sprachen	EN
Zeitraum	SoSe
Inhalt	
Literatur	

Modul M1358: Global Innovation Management			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Management Globaler Innovationen - Seminar (L1934)	Seminar	2	3
Management Globaler Innovationen - Vorlesung (L1933)	Vorlesung	3	3
Modulverantwortlicher	Dr. Stephan Buse		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	Basic knowledge of innovation management and globalisation		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	Students learn about economic theories and models that underlie innovation management in an increasingly globalized world. Particular attention is paid to emerging countries such as India and China, but also to other countries in Africa, Asia and South America, as they are becoming increasingly important as innovation locations and sales markets in global economic competition. The following theories/models will be dealt with in the modules/ sessions: • Lead Market Theory • Frugal Innovations • Open Innovation Approach • Transnational Model • Internationalisation of Research & Development		
<i>Fertigkeiten</i>	By means of the theories and models discussed, students are enabled to analyse the significance and effects of globalisation from an economic as well as a business perspective. Furthermore, they learn to assess the competitiveness of entrepreneurial innovation strategies and innovation locations.		
Personale Kompetenzen <i>Sozialkompetenz</i>	After successful completion of the module, students can work together purposefully and respectfully in (inter)national teams. In addition, they can conduct subject-specific discussions on issues of global innovation management and present and represent the results of their work in accordance with the requirements of the professional world.		
<i>Selbstständigkeit</i>	Upon successful completion of the module, students can conduct case studies on global innovation management issues independently and/or as part of a team. They are able to independently select and apply adequate analysis tools and to reflect their analysis results self-critically.		
Arbeitsaufwand in Stunden	Eigenstudium 110, Präsenzstudium 70		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Fachtheoretisch-fachpraktische Arbeit		
Prüfungsdauer und -umfang	ca. 10 Seiten schriftliche Ausarbeitung, Präsentation und mündliche Beteiligung		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Pflicht		

Lehrveranstaltung L1934: Managing Global Innovation - Seminar	
Typ	Seminar
SWS	2
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 62, Präsenzstudium 28
Dozenten	Dr. Stephan Buse, Prof. Rajnish Tiwari
Sprachen	EN
Zeitraum	WiSe
Inhalt	The seminar "Management of Global Innovations" serves the deepening and practice-oriented application of the teaching material conveyed in the problem-oriented course of the same name. Students work in groups on questions of global innovation management. Consequently, participation in the seminar requires participation in the problem-oriented course of the same name.
Literatur	Die Grundlagenliteratur ist deckungsgleich zu der gleichnamigen Vorlesungsliteratur. Hinzukommt themenspezifische Fachliteratur bezüglich der zu behandelnden Fragestellungen. The basic literature is congruent with the lecture literature of the same name. In addition, there are subject-specific specialist literature relating to the questions to be dealt with.

Lehrveranstaltung L1933: Managing Global Innovation - Lecture	
Typ	Vorlesung
SWS	3
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 48, Präsenzstudium 42
Dozenten	Dr. Stephan Buse, Prof. Rajnish Tiwari
Sprachen	EN
Zeitraum	WiSe
Inhalt	Students learn about economic theories and models that underlie innovation management in an increasingly globalized world. Particular attention is paid to emerging countries such as India and China, but also to other countries in Africa, Asia and South America, as they are becoming increasingly important as innovation locations and sales markets in global economic competition. In the problem-oriented course, the following theories/models will be dealt with: - Lead Market Theory - Frugal Innovations - Open Innovation Approach - Transnational Model - Internationalization of Research & Development By means of the theories and models discussed, students are enabled to analyse the significance and effects of globalisation from an economic as well as a business perspective. Furthermore, they learn to assess the competitiveness of entrepreneurial innovation strategies and innovation locations.
Literatur	• Bartlett, C. A. and S. Ghoshal (1998). Managing across Borders: The Transnational Solution. Boston, Harvard Business School Press. • Bartlett, C. A. and S. Ghoshal (1990). Managing innovation in the transnational corporation. Managing the Global Firm. C. A. Bartlett, Y. L. Doz and G. Hedlund. London, Routledge: 215-255. • Chesbrough, H. (2003). Open Innovation: The New Imperative for Creating and Profiting from Technology. Boston, Harvard Business School Press. • Christensen, C. M. and M. E. Raynor (2003). The innovator's solution: creating and sustaining successful growth. Boston, MA, Harvard Business School Press. • Herstatt, C. and R. Tiwari, Eds. (2017). Lead Market India: Key Elements and Corporate Perspectives for Frugal Innovations. Heidelberg, Springer. • Herstatt, C., R. Tiwari and S. Buse (2017). Innovating for Emerging Markets? An Assessment of German Hidden Champions' Strategies. Technologie, Strategie und Organisation. W. Burr and M. Stephan. Wiesbaden, Springer Gabler: 219-238. • Tiwari, R. and C. Herstatt (2014). Aiming Big with Small Cars: Emergence of a Lead Market in India. Heidelberg, Springer.

Modul M1705: Shaping the world of tomorrow			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Die Welt von morgen gestalten (L2718)		4	6
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 124, Präsenzstudium 56		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	5-Minütiger Film + schriftliche Dokumentation		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Wahlpflicht		

Lehrveranstaltung L2718: Shaping the world of tomorrow	
Typ	
SWS	4
LP	6
Arbeitsaufwand in Stunden	Eigenstudium 124, Präsenzstudium 56
Dozenten	Prof. Raphaela Vogel
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1035: Entrepreneurial Finance				
Lehrveranstaltungen				
Titel	Typ		SWS	LP
Entrepreneurial Finance: Case Studies (L1282)	Seminar		3	4
Entrepreneurial Finance: Lecture (L1281)	Vorlesung		2	2
Modulverantwortlicher	Prof. Christoph Ihl			
Zulassungsvoraussetzungen	None			
Empfohlene Vorkenntnisse	Basic knowledge in business economics and finance obtained in the compulsory modules and participation in the module "Technology Entrepreneurship" is highly recommended.			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht			
Fachkompetenz	<i>Wissen</i> Wissen (subject-related knowledge and understanding): - understand the structure of a financial plan for a new venture - understand the procedures, pros and cons of different valuation methods - understand the design of financial contracts and term sheets - understand the interests of venture capital funds - understand the pros and cons of different growth and exit options <i>Fertigkeiten</i> Fertigkeiten (subject-related skills): - prepare a financial plan for a new venture - value a new venture in financial terms - apply different valuation methods - evaluate the attractiveness of financial contracts - design VC term sheets - design employee contracts in terms of financial compensation - design financial contracts and conduct financial negotiations - assess and justify possible growth and exit options Personale Kompetenzen <i>Sozialkompetenz</i> Sozialkompetenz (Social Competence): - team work - communication and presentation - give and take critical comments - engaging in fruitful discussions <i>Selbstständigkeit</i> Selbstständigkeit (Autonomy): - autonomous work and time management - project management - analytical skills			
Arbeitsaufwand in Stunden				
Leistungspunkte				
Studienleistung	Verpflichtend	Bonus	Art der Studienleistung	Beschreibung
	Ja	20 %	Gruppendiskussion	
Prüfung	Fachtheoretisch-fachpraktische Arbeit			
Prüfungsdauer und -umfang	Präsentationen und Fallstudienbearbeitung			
Zuordnung zu folgenden Curricula	Global Innovation Management: Kernqualifikation: Wahlpflicht Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Wahlpflicht Internationales Wirtschaftsingenieurwesen: Vertiefung I. Management: Wahlpflicht Mechanical Engineering and Management: Vertiefung Management: Wahlpflicht			

Lehrveranstaltung L1282: Entrepreneurial Finance: Case Studies	
Typ	Seminar
SWS	3
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 78, Präsenzstudium 42
Dozenten	Prof. Christoph Ihl
Sprachen	EN
Zeitraum	WiSe
Inhalt	Entrepreneurial finance is at the center of a clash of two very distant worlds: that of entrepreneurship and that of finance. Finance is disciplined, based on numbers and logical thinking and looking for proven track records. Entrepreneurship is messy, based on intuition and experimentation and treading off the beaten track. Entrepreneurial finance is the provision of funding to young, innovative, growth-oriented companies. Entrepreneurial companies are young, typically less than ten years old, and introduce innovative products or business models. The younger are called "startups," and are typically less than five years old. There is a variety of investors who can finance entrepreneurial companies: family and friends, business angels, accelerators and incubators, crowdfunding platforms, venture capital firms, corporate investors, etc. The course provides a thorough understanding of what motivates them, of the way they invest, and of what support they can provide to a company at what stage in the fundraising cycle. The course addresses the following key questions: How much money can and should be raised? When should it be raised and from whom? What is a reasonable valuation of the company? How should funding, employment contracts and exit decisions be structured? Thus, the course provides an understanding of the whole fundraising cycle, from the moment the entrepreneur conceived her idea to the moment investors exit the company and move on. We examine the entrepreneur's signalling to investors of the qualities of the venture, the investors' evaluation of the venture, the various dimensions of contracting (cash flow rights, control rights, compensation, and other clauses), the negotiation of a deal and the provision of corporate governance, the process of staged financing, the financing through debt, and the exit process through liquidity events such as initial public offering, sale or merger. The following topics will be covered with specific case studies: 1. Introduction: Evaluating Venture Opportunities 2. Financial Planning 3. Ownership and Returns 4. Valuation Methods 5. Term Sheets 6. Structuring Deals 7. Corporate Governance 8. Staged Financing 9. Debt Financing 10. Exits 11. Early Stage & Venture Capital Investors 12. Ecosystems
Literatur	Da Rin, Marco, and Thomas Hellmann. Fundamentals of Entrepreneurial Finance. Oxford University Press, 2020.

Lehrveranstaltung L1281: Entrepreneurial Finance: Lecture	
Typ	Vorlesung
SWS	2
LP	2
Arbeitsaufwand in Stunden	Eigenstudium 32, Präsenzstudium 28
Dozenten	Prof. Christoph Ihl
Sprachen	EN
Zeitraum	WiSe
Inhalt	Entrepreneurial finance is at the center of a clash of two very distant worlds: that of entrepreneurship and that of finance. Finance is disciplined, based on numbers and logical thinking and looking for proven track records. Entrepreneurship is messy, based on intuition and experimentation and treading off the beaten track. Entrepreneurial finance is the provision of funding to young, innovative, growth-oriented companies. Entrepreneurial companies are young, typically less than ten years old, and introduce innovative products or business models. The younger are called "startups," and are typically less than five years old. There is a variety of investors who can finance entrepreneurial companies: family and friends, business angels, accelerators and incubators, crowdfunding platforms, venture capital firms, corporate investors, etc. The course provides a thorough understanding of what motivates them, of the way they invest, and of what support they can provide to a company at what stage in the fundraising cycle. The course addresses the following key questions: How much money can and should be raised? When should it be raised and from whom? What is a reasonable valuation of the company? How should funding, employment contracts and exit decisions be structured? Thus, the course provides an understanding of the whole fundraising cycle, from the moment the entrepreneur conceived her idea to the moment investors exit the company and move on. We examine the entrepreneur's signalling to investors of the qualities of the venture, the investors' evaluation of the venture, the various dimensions of contracting (cash flow rights, control rights, compensation, and other clauses), the negotiation of a deal and the provision of corporate governance, the process of staged financing, the financing through debt, and the exit process through liquidity events such as initial public offering, sale or merger. The following topics will be covered in lectures: 1. Introduction: Evaluating Venture Opportunities 2. Financial Planning 3. Ownership and Returns 4. Valuation Methods 5. Term Sheets 6. Structuring Deals 7. Corporate Governance 8. Staged Financing 9. Debt Financing 10. Exits 11. Early Stage & Venture Capital Investors 12. Ecosystems
Literatur	Da Rin, Marco, and Thomas Hellmann. Fundamentals of Entrepreneurial Finance. Oxford University Press, 2020.

Modul M0524: Nichttechnische Angebote im Master	
Modulverantwortlicher	Dagmar Richter
Zulassungsvoraussetzungen	Keine
Empfohlene Vorkenntnisse	Keine
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht
Fachkompetenz <i>Wissen</i>	Die Nichttechnischen Angebote (NTA) vermittelt die in Hinblick auf das Ausbildungsprofil der TUHH nötigen Kompetenzen, die ingenieurwissenschaftliche Fachlehre fördern aber nicht abschließend behandeln kann: Eigenverantwortlichkeit, Selbstführung, Zusammenarbeit und fachliche wie personale Leitungsbefähigung der zukünftigen Ingenieurinnen und Ingenieure. Er setzt diese Ausbildungsziele in seiner Lehrarchitektur, den Lehr-Lern-Arrangements, den Lehrbereichen und durch Lehrangebote um, in denen sich Studierende wahlweise für spezifische Kompetenzen und ein Kompetenzniveau auf Bachelor- oder Masterebene qualifizieren können. Die Lehrangebote sind jeweils in einem Modulkatalog Nichttechnische Ergänzungskurse zusammengefasst. Die Lehrarchitektur besteht aus einem studiengangübergreifenden Pflichtstudienangebot. Durch dieses zentral konzipierte Lehrangebot wird die Profilierung der TUHH Ausbildung auch im nichttechnischen Bereich gewährleistet. Die Lernarchitektur erfordert und übt eigenverantwortliche Bildungsplanung in Hinblick auf den individuellen Kompetenzaufbau ein und stellt dazu Orientierungswissen zu thematischen Schwerpunkten von Veranstaltungen bereit. Das über den gesamten Studienverlauf begleitend studierbare Angebot kann ggf. in ein-zwei Semestern studiert werden. Angesichts der bekannten, individuellen Anpassungsprobleme beim Übergang von Schule zu Hochschule in den ersten Semestern und um individuell geplante Auslandssemester zu fördern, wird jedoch von einer Studienfixierung in konkreten Fachsemestern abgesehen. Die Lehr-Lern-Arrangements sehen für Studierende - nach B.Sc. und M.Sc. getrennt - ein semester- und fachübergreifendes voneinander Lernen vor. Der Umgang mit Interdisziplinarität und einer Vielfalt von Lernständen in Veranstaltungen wird eingeübt - und in spezifischen Veranstaltungen gezielt gefördert. Die Lehrbereiche basieren auf Forschungsergebnissen aus den wissenschaftlichen Disziplinen Kulturwissenschaften, Gesellschaftswissenschaften, Kunst, Geschichtswissenschaften, Kommunikationswissenschaften, Migrationswissenschaften, Nachhaltigkeitsforschung und aus der Fachdidaktik der Ingenieurwissenschaften. Über alle Studiengänge hinweg besteht im Bachelorbereich zusätzlich ab Wintersemester 2014/15 das Angebot, gezielt Betriebswirtschaftliches und Gründungswissen aufzubauen. Das Lehrangebot wird durch soft skill und Fremdsprachkurse ergänzt. Hier werden insbesondere kommunikative Kompetenzen z.B. für Outgoing Engineers gezielt gefördert. Das Kompetenzniveau der Veranstaltungen in den Modulen der nichttechnischen Ergänzungskurse unterscheidet sich in Hinblick auf das zugrunde gelegte Ausbildungsziel: Diese Unterschiede spiegeln sich in den verwendeten Praxisbeispielen, in den - auf unterschiedliche berufliche Anwendungskontexte verweisende - Inhalten und im für M.Sc. stärker wissenschaftlich-theoretischen Abstraktionsniveau. Die Soft skills für Bachelor- und für Masterabsolventinnen/ Absolventen unterscheidet sich an Hand der im Berufsleben unterschiedlichen Positionen im Team und bei der Anleitung von Gruppen. Fachkompetenz (Wissen) Die Studierenden können • ausgewähltes Spezialgebiete des jeweiligen nichttechnischen Bereiches erläutern, • in den im Lehrbereich vertretenen Disziplinen grundlegende Theorien, Kategorien, Begrifflichkeiten, Modelle, Konzepte oder künstlerischen Techniken skizzieren, • diese fremden Fachdisziplinen systematisch auf die eigene Disziplin beziehen, d.h. sowohl abgrenzen als auch Anschlüsse benennen, • in Grundzügen skizzieren, inwiefern wissenschaftliche Disziplinen, Paradigmen, Modelle, Instrumente, Verfahrensweisen und Repräsentationsformen der Fachwissenschaften einer individuellen und soziokulturellen Interpretation und Historizität unterliegen, • können Gegenstandsangemessen in einer Fremdsprache kommunizieren (sofern dies der gewählte Schwerpunkt im NTW-Bereich ist).
<i>Fertigkeiten</i>	Die Studierenden können in ausgewählten Teilbereichen • grundlegende und teils auch spezielle Methoden der genannten Wissenschaftsdisziplinen anwenden. • technische Phänomene, Modelle, Theorien usw. aus der Perspektive einer anderen, oben erwähnten Fachdisziplin befragen. • einfache und teils auch fortgeschrittene Problemstellungen aus den behandelten Wissenschaftsdisziplinen erfolgreich

Personale Kompetenzen		bearbeiten, • bei praktischen Fragestellungen in Kontexten, die den technischen Sach- und Fachbezug übersteigen, ihre Entscheidungen zu Organisations- und Anwendungsformen der Technik begründen.
	<i>Sozialkompetenz</i>	Die Studierenden sind fähig , • in unterschiedlichem Ausmaß kooperativ zu lernen • eigene Aufgabenstellungen in den o.g. Bereichen in adressatengerechter Weise in einer Partner- oder Gruppensituation zu präsentieren und zu analysieren, • nichttechnische Fragestellungen einer Zuhörerschaft mit technischem Hintergrund verständlich darzustellen • sich landessprachlich kompetent, kulturell angemessen und geschlechtersensibel auszudrücken (sofern dies der gewählte Schwerpunkt im NTW-Bereich ist)
	<i>Selbstständigkeit</i>	Die Studierenden sind in ausgewählten Bereichen in der Lage, • die eigene Profession und Professionalität im Kontext der lebensweltlichen Anwendungsgebiete zu reflektieren, • sich selbst und die eigenen Lernprozesse zu organisieren, • Fragestellungen vor einem breiten Bildungshorizont zu reflektieren und verantwortlich zu entscheiden, • sich in Bezug auf ein nichttechnisches Sachthema mündlich oder schriftlich kompetent auszudrücken. • sich als unternehmerisches Subjekt zu organisieren, (sofern dies ein gewählter Schwerpunkt im NTW-Bereich ist).
Arbeitsaufwand in Stunden	Abhängig von der Wahl der Lehrveranstaltungen	
Leistungspunkte	6	

Lehrveranstaltungen
Die Informationen zu den Lehrveranstaltungen entnehmen Sie dem separat veröffentlichten Modulhandbuch des Moduls.

Modul M1590: Project Seminar Innovation Marketing (GTIME)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Seminar Innovationsmarketing (GTIME) (L2427)	Projektseminar	4	6
Modulverantwortlicher	Prof. Christian Lüthje		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	Students can...		
	- understand the process and the tools of market analysis for innovations (e.g. market potential, market growth, market segmentation) - explain the concepts of target customers, market definition and market growth - select the appropriate approach for leading a competitive analysis - explain the key market-related issues (strengths and weaknesses) of technology-based business opportunities		
<i>Fertigkeiten</i>	Students are capable of...		
	- analyzing the market potential of inventions and innovative business ideas by using appropriate methods. - investigating whether a market is still open for a given innovation and develop a first concept for the market entry strategy and the marketing mix. - searching for relevant information (primary and secondary market data). - analyzing, aggregating, and interpreting the gathered data and giving well founded recommendations based on the findings. - writing a scientific report that includes the literature background as well as the development of their methods, their results, conclusions and recommendations.		
Personale Kompetenzen <i>Sozialkompetenz</i>	Students are able to...		
	- assess possible consequences of their own decisions. - define required tasks to find a solution for a given problem. - make elaborated decisions in an real-world innovation context. - assess their own performance in a team.		
<i>Selbstständigkeit</i>	The work in teams over an entire semester and the interaction with professionals, experts and project partners outside the university will support the students in their competence to access the required information that is needed for making well-founded decisions with a high level of trust in the own capabilities.		
Arbeitsaufwand in Stunden	Eigenstudium 124, Präsenzstudium 56		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Fachtheoretisch-fachpraktische Arbeit		
Prüfungsdauer und -umfang	ca. 40 Seiten schriftliche Ausarbeitung, Präsentation, mündliche Beteiligung		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Wahlpflicht		

Lehrveranstaltung L2427: Seminar Innovation Marketing (GTIME)	
Typ	Projektseminar
SWS	4
LP	6
Arbeitsaufwand in Stunden	Eigenstudium 124, Präsenzstudium 56
Dozenten	Prof. Christian Lüthje
Sprachen	EN
Zeitraum	WiSe
Inhalt	General description of course content and course goals The aim of the course is to give students an insight into the practice of technology exploitation and innovation marketing. The technologies and product concepts are provided by so called idea providers. These idea providers may be, among others, researchers at universities and project teams working in research institutions with a technical invention or (prospective) entrepreneurs with a business idea. Within the course the student teams will analyze the market potential of technology-based inventions or business ideas. They will define potential target customers in the market. Another important question to answer is, whether the market is still receptive for a given invention, or whether competitors have already exploited the full market potential. Finally, the student teams will also develop first ideas for the design of the marketing mix and write a report that is also handed to the idea providers. Summarizing the most important contents

	The students will find answers to the following fundamental questions: • What are the key features of the invention? • What is the unique selling point? • What is the most attractive application field? • Who are the target customers? • What are their needs and how can they be met? • What is the market potential of innovations? • What resources are necessary to exploit this market potential? • How can/should they enter the market? Professional Competence Knowledge Students can... • understand the process and the tools of market analysis for innovations (e.g. market potential, market growth, market segmentation) • explain the concepts of target customers, market definition and market growth • select the appropriate approach for leading a competitive analysis • explain the key market-related issues (strengths and weaknesses) of technology-based business opportunities Skills Students are capable of... • analyzing the market potential of inventions and innovative business ideas by using appropriate methods. • investigating whether a market is still open for a given innovation and develop a first concept for the market entry strategy and the marketing mix. • searching for relevant information (primary and secondary market data). • analyzing, aggregating, and interpreting the gathered data and giving well founded recommendations based on the findings. • writing a scientific report that includes the literature background as well as the development of their methods, their results, conclusions and recommendations. Personal Competence Social Competence Students can... • provide appropriate feedback and handle feedback on their own performance constructively. • enter into a dialogue with formerly unknown fellow students, participate in discussions, and present well-grounded arguments. • constructively interact with their team members and lead team sessions and group work processes. • develop joint solutions and come to decisions in mixed teams and present the results to others. Self-Reliance Students are able to... • assess possible consequences of their own decisions. • define required tasks to find a solution for a given problem. • make elaborated decisions in an real-world innovation context. • assess their own performance in a team.
Literatur	Gruber, Marc, Ian C. MacMillan, and James D. Thompson (2008), "Look Before You Leap: Market Opportunity Identification in Emerging Technology Firms," Management Science, 54 (September), 1652-1665. Danneels, Erwin (2007), "The Process of Technological Competence Leveraging," Strategic Management Journal, 28 (February), 511-533

Modul M1891: Data Science and Machine Learning for Managers			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Datenwissenschaft und maschinelles Lernen für Manager (L3130)	Vorlesung	5	6
Modulverantwortlicher	Dr. Stephan Buse		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 110, Präsenzstudium 70		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	15 Seiten		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Wahlpflicht		

Lehrveranstaltung L3130: Data Science and Machine Learning for Managers	
Typ	Vorlesung
SWS	5
LP	6
Arbeitsaufwand in Stunden	Eigenstudium 110, Präsenzstudium 70
Dozenten	Prof. Cornelius Herstatt
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1917: Responsible Leadership and Communication			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Achtsamkeit und Führung (L2421)	Projektseminar	2	2
Interkulturelle Kompetenzen (L2420)	Vorlesung	2	2
Kommunikationsfähigkeiten (L2422)	Projektseminar	2	2
Modulverantwortlicher	Dr. Stephan Buse		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 96, Präsenzstudium 84		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	ca. 10 Seiten schriftliche Ausarbeitung und Präsentation		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Pflicht		

Lehrveranstaltung L2421: Mindfulness and Leadership	
Typ	Projektseminar
SWS	2
LP	2
Arbeitsaufwand in Stunden	Eigenstudium 32, Präsenzstudium 28
Dozenten	Prof. Cornelius Herstatt, Dr. Sandra-Luisa Moschner
Sprachen	EN
Zeitraum	WiSe
Inhalt	Mindfulness defines a situation, in which a person is mentally present without being distracted from thoughts or emotions. These are neither analyzed nor judged. Mindfulness is an important element of the Buddhist tradition and is taught through mindfulness-based stress reduction (MBSR)-trainings, Yoga, and meditation approaches in western culture. Until today, effects of mindfulness are tested and studied in medical and psychological clinical contexts. However, nowadays it is also part of the new work trend and enters the business context. During the seminar different mindfulness practices are presented, practiced and their effects on creativity, innovation, and entrepreneurship are discussed.
Literatur	Csikszentmihalyi, M. (1990). Flow. The Psychology of Optimal Experience. HarperCollins. Williams, M., Penman, D. (2011). Meditation im Alltag. Gelassenheit finden in einer hektischen Welt. Arkana. Murnieks, C. Y. et al. (In Press). Close your eyes or open your mind: Effects of sleep and mindfulness exercises on entrepreneurs' exhaustion. Journal of Business Venturing. Byrne, E. K., Thatchenkery, T. (2018). How to Use Mindfulness to Increase Your Team's Creativity. Harvard Business Review. Memmert, D. (2007). Can Creativity Be Improved by an Attention-Broadening Training Program? An Exploratory Study Focusing on Team Sports. Creativity Research Journal 19 (2-3), S. 281-291. Den Heijer, P. et al. (2017). Don't Forget to Breathe: A Controlled Trial of Mindfulness Practices in Agile Project Teams. Working Paper.

Lehrveranstaltung L2420: Intercultural Competencies	
Typ	Vorlesung
SWS	2
LP	2
Arbeitsaufwand in Stunden	Eigenstudium 32, Präsenzstudium 28
Dozenten	Dr. Stephan Buse, Prof. Rajnish Tiwari
Sprachen	EN
Zeitraum	WiSe
Inhalt	Globalization of business processes and the revolution in information and communication technologies (ICT) have resulted in distributed workflows across geographic boundaries. These developments as well as increased immigration emanating, for example, as a consequence of a shortage of skilled labour in many industrialized nations, have led to the creation of (virtual) multi-cultural, multi-ethnic teams with diverse cultural backgrounds. Such diversity generally has a positive impact on creativity and innovativeness, as many empirical studies confirm. Nevertheless, varying cultural practices, communication styles, and contextual sensibilities have the potential to disturb or even disrupt collaborative work processes, if left unmanaged. This course focuses on inter-cultural management from both, theoretical as well as practical, points of view to provide a solid fundament to students enabling them to operate successfully in cross-cultural settings. Case studies and guest lecture(s) will be used to provide added practical relevance to the course. In addition, where practicable, student assignments will be used to foster autonomous learning. Some of the main topics covered in this course include: • Understanding "culture" and its impact on human interaction • Verbal and non-verbal communication • High and low context communication • Role of formality and non-formality in communication • Varying interpretations of symbols, rituals & gestures • Managing diversity in domestic settings
Literatur	• Bartlett, C.A. / Ghoshal, S. (2002): Managing Across Borders: The Transnational Solution, 2nd edition, Boston • Deresky, H. (2006): International Management: Managing Across Borders and Cultures, 3rd edition, Upper Saddle River • French, R. (2010): Cross-cultural Management in Work Organisations, 2nd edition, London • Hofstede, G. (2003): Culture's Consequences : Comparing Values, Behaviors, Institutions and Organizations across Nations, 2nd edition, Thousand Oaks • Hofstede, G. / Hofstede, G.J. (2006): Cultures and Organizations: Software of the mind, 2nd edition, New York

Lehrveranstaltung L2422: Communication Skills	
Typ	Projektseminar
SWS	2
LP	2
Arbeitsaufwand in Stunden	Eigenstudium 32, Präsenzstudium 28
Dozenten	Prof. Cornelius Herstatt, Dr. Malte David Krohn
Sprachen	EN
Zeitraum	WiSe
Inhalt	The purpose of this course is to equip students with important communication skills to successfully navigate the dynamic world of professionals dealing with innovation. Students will explore the field of communication by getting in touch with different communication models, like the Schramm model of communication. Successfully communicating complex ideas in a simple, yet engaging way is key to bring about change in organizations. Here, proficiency with tools like PowerPoint is crucial to create compelling visual support. Also, future change makers need to bring together perspectives in multidisciplinary and increasingly intercultural teams. Being able to give and receive feedback in a constructive way is equally important. Communication will be discussed in these different facets in an interactive format and a focus on practical application.
Literatur	Kratzer, J., Leenders, O. T. A., & Engelen, J. M. V. (2004). Stimulating the potential: Creative performance and communication in innovation teams. Creativity and Innovation Management, 13(1), 63-71. Hoegl, M., & Gemuenden, H. G. (2001). Teamwork quality and the success of innovative projects: A theoretical concept and empirical evidence. Organization science, 12(4), 435-449. Schram, W. E. (1954). The process and effects of mass communication. Thach, E. C. (2002). The impact of executive coaching and 360 feedback on leadership effectiveness. Leadership & Organization Development Journal, 23(4), 205-214. Löwgren, J., & Stolterman, E. (2004). Thoughtful interaction design: A design perspective on information technology. MIT Press.

Modul M1034: Technology Entrepreneurship			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Creation of Business Opportunities (L1280)	Projekt-/problemorientierte Lehrveranstaltung	3	3
Entrepreneurship (L1279)	Vorlesung	2	3
Modulverantwortlicher	Prof. Christoph Ihl		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	Basic knowledge in business economics obtained in the compulsory modules as well as an interest in new technologies and the pursuit of new business opportunities either in corporate or startup contexts.		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	Wissen (subject-related knowledge and understanding): • develop a working knowledge and understanding of the entrepreneurial perspective • understand the difference between a good idea and scalable business opportunity • understand the process of taking a technology idea and finding a high-potential commercial opportunity • understand the components of business models • understand the components of business opportunity assessment and business plans		
<i>Fertigkeiten</i>	• Fertigkeiten (subject-related skills): ◦ identify and define business opportunities ◦ assess and validate entrepreneurial opportunities ◦ create and verify a business model of how to sell and market an entrepreneurial opportunity ◦ formulate and test business model assumptions and hypotheses ◦ conduct customer and expert interviews regarding business opportunities ◦ prepare business opportunity assessment ◦ create and verify a plan for gathering resources such as talent and capital ◦ pitch a business opportunity to your classmates and the teaching team		
Personale Kompetenzen <i>Sozialkompetenz</i>	Sozialkompetenz (Social Competence): • team work • communication and presentation • give and take critical comments • engaging in fruitful discussions		
<i>Selbstständigkeit</i>	Selbstständigkeit (Autonomy): • autonomous work and time management • project management • analytical skills		
Arbeitsaufwand in Stunden	Eigenstudium 110, Präsenzstudium 70		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Fachtheoretisch-fachpraktische Arbeit		
Prüfungsdauer und -umfang	Drei Referate zum jeweiligen Projektstand		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Wahlpflicht Internationales Wirtschaftsingenieurwesen: Vertiefung I. Management: Wahlpflicht Logistik, Infrastruktur und Mobilität: Kernqualifikation: Wahlpflicht Mechanical Engineering and Management: Vertiefung Management: Wahlpflicht		

Lehrveranstaltung L1280: Creation of Business Opportunities	
Typ	Projekt-/problem-basierte Lehrveranstaltung
SWS	3
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 48, Präsenzstudium 42
Dozenten	Prof. Christoph Ihl
Sprachen	EN
Zeitraum	SoSe
Inhalt	Important note: This course is part of an 6 ECTS module consisting of two courses "Entrepreneurship" & "Creation of Business Opportunities", which have to be taken together in one semester. Startups are temporary, team-based organizations, which can form both within and outside of established companies, to pursue one central objective: taking a new venture idea to market by designing a business model that can be scaled to a full-grown company. In this course, students will form startup teams around self-selected ideas and run through the process just like real startups would do in the first three months of intensive work. Startup Engineering takes an incremental and iterative approach, in that it favors variety and alternatives over one detailed, linear five-year business plan to reach steady state operations. From a problem solving and systems thinking perspective, student teams create different possible versions of a new venture and alternative hypotheses about value creation for customers and value capture vis-à-vis competitors. We will draw on recent scientific findings about international success factors of new venture design. To test critical hypotheses early on, student teams engage in scientific, evidence-based, experimental trial-and-error learning process that measures real progress. Upon completion of this course, students will be able to: · Apply a modern innovation toolkit relevant in both the corporate & startup world · Analyze given business opportunities in terms of its constituent elements · Design new business models by gathering and combining relevant ideas, facts and information · Evaluate business opportunities and derive judgment about next steps & decisions Course language is English, but participants can decide to give their graded presentations in German. Students are invited to apply to this course module already with a startup idea and/ or team, but this is not a requirement! We will form teams and ideas in the beginning of the course. Class meetings have alternate intervals of lecture inputs, teamwork, mentoring, and peer feedback. Attendance is mandatory for at least 80% of class time due to large proportion of teamwork sessions. Student teams give three presentations and submit them with backup analyses. Grading scheme: · Startup discovery presentation after 5 weeks: 30% · Startup validation presentation after 10 weeks: 30% · Final startup pitches after 13 weeks: 40%
Literatur	• Blank, S. & Dorf, B. (2012). The startup owner's manual. • Gans, J. & Stern, S. (2016). Entrepreneurial Strategy. • Osterwalder, A. & Yves, P. (2010). Business model generation. • Maurya, A. (2012). Running lean: Iterate from plan A to a plan that works. • Maurya, A. (2016). Scaling lean: Mastering the Key Metrics for Startup Growth. • Wilcox, J. (2016). FOCUS Framework: How to Find Product-Market Fit.

Lehrveranstaltung L1279: Entrepreneurship	
Typ	Vorlesung
SWS	2
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 62, Präsenzstudium 28
Dozenten	Prof. Christoph Ihl
Sprachen	EN
Zeitraum	SoSe
Inhalt	Important note: This course is part of an 6 ECTS module consisting of two courses "Entrepreneurship" & "Creation of Business Opportunities", which have to be taken together in one semester. Startups are temporary, team-based organizations, which can form both within and outside of established companies, to pursue one central objective: taking a new venture idea to market by designing a business model that can be scaled to a full-grown company. In this course, students will form startup teams around self-selected ideas and run through the process just like real startups would do in the first three months of intensive work. Startup Engineering takes an incremental and iterative approach, in that it favors variety and alternatives over one detailed, linear five-year business plan to reach steady state operations. From a problem solving and systems thinking perspective, student teams create different possible versions of a new venture and alternative hypotheses about value creation for customers and value capture vis-à-vis competitors. We will draw on recent scientific findings about international success factors of new venture design. To test critical hypotheses early on, student teams engage in scientific, evidence-based, experimental trial-and-error learning process that measures real progress. Upon completion of this course, students will be able to: · Apply a modern innovation toolkit relevant in both the corporate & startup world · Analyze given business opportunities in terms of its constituent elements · Design new business models by gathering and combining relevant ideas, facts and information · Evaluate business opportunities and derive judgment about next steps & decisions Course language is English, but participants can decide to give their graded presentations in German. Students are invited to apply to this course module already with a startup idea and/ or team, but this is not a requirement! We will form teams and ideas in the beginning of the course. Class meetings have alternate intervals of lecture inputs, teamwork, mentoring, and peer feedback. Attendance is mandatory for at least 80% of class time due to large proportion of teamwork sessions. Student teams give three presentations and submit them with backup analyses. Grading scheme: · Startup discovery presentation after 5 weeks: 30% · Startup validation presentation after 10 weeks: 30% · Final startup pitches after 13 weeks: 40%
Literatur	• Blank, S. & Dorf, B. (2012). The startup owner's manual. • Gans, J. & Stern, S. (2016). Entrepreneurial Strategy. • Osterwalder, A. & Yves, P. (2010). Business model generation. • Maurya, A. (2012). Running lean: Iterate from plan A to a plan that works. • Maurya, A. (2016). Scaling lean: Mastering the Key Metrics for Startup Growth. • Wilcox, J. (2016). FOCUS Framework: How to Find Product-Market Fit.

Modul M1381: Agile Design Methods			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Agile Design Methoden (L1962)	Projektseminar	3	3
Agile Design Methoden (L2294)	Vorlesung	2	3
Modulverantwortlicher	Dr. Stephan Buse		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	The students know: - Different methods from the field of design management and can explain them and their importance for agile project management. - The distinction between linear and integrative design methods. - Appropriate software for supporting the process. - The interrelation between working culture and applied design methods. - The theoretical construct behind human-centered design and its diverse methodologies. - The difference between high and low resolution prototyping and software to realize digital Prototyps.		
<i>Fertigkeiten</i>	The students are able: - to decide on an appropriate method to approach an innovation project. They recognize the difference between agile and iterate of methodologies and water fall project management. - They apply the relevant methods for the fuzzy front end (e.g. Design Thinking) or the implementation of an idea in agile teams (e.g. Scrum). - to self-moderate the Design Thinking process in their team. - to use appropriate methods to create a common understanding and across departmental teams. They carry out a syntheses of the use and eight through appropriate methods e.g. personas. - to use creativity methods for idea generation such as different brainstorming methods. - to construct appropriate prototypes to test the critical function of the idea. - to apply appropriate software for supporting the process.		
Personale Kompetenzen <i>Sozialkompetenz</i>	The students are able: - to work successfully and respectfully in a multicultural team. - to reach the expected results within their team and to document them. - to engage in scientific and practitioner discussions on the topic of innovation- specifically design management. - to present the results of the work to others in an understandable and catchy way.		
<i>Selbstständigkeit</i>	The students are able: - to carry out an innovation process for any given challenge independently, individually or in a team. - to solve complex problems independently or in a team, selecting and using appropriate analog design methods and software. - to gather knowledge regarding a challenge independently and apply their knowledge in problem-solving. - to critically reflect on the results of the work and their own behavior in the team.		
Arbeitsaufwand in Stunden	Eigenstudium 110, Präsenzstudium 70		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Schriftliche Projektarbeit		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Wahlpflicht		

Lehrveranstaltung L1962: Agile Design Methods	
Typ	Projektseminar
SWS	3
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 48, Präsenzstudium 42
Dozenten	Dr. Stephan Buse
Sprachen	EN
Zeitraum	SoSe
Inhalt	The core of this projectseminar is the systematical and method - based development of individual design method skills. The course is divided into two sections: 1.) theoretical input on relevant methodologies and 2.) practical training and application of innovation methods. In the first events, basic knowledge and an overview of methodical approaches to innovation and creativity is given. In the subsequent groupwork phase, user needs are explored, solutions are developed and tested experimentally. Interim results are presented at regular intervals in the plenum. The ideas can be further developed from date to date on the basis of verified or falsified assumptions. Different design methodologies will be explained and set in context: Design Thinking, Scrum, Kanban, Simplicity, Appreciative Inquiry, Lean start-up, Business Model Canvas, Value Proposition Design. The didactical concept of the practice phase is problem-based learning. Therefore the methodological training will focus on design thinking applied to a real-world problem. In an iterative manner, the student teams go through all Design Thinking stages in a workshop style - starting from understand, to empathize, define, ideate, prototype and test, several times in projects. Agile design methods foster a new working paradigm, a mindset of collaboration. The students will experience the connection between methodology and working culture and reflect on their personal development on the one hand and the team dynamics on the other hand.
Literatur	• "Design Thinking" (Tim Brown, 2008) • Change by Design (Tim Brown, 2008) • Creative Confidence (Kelley/Kelley, 2013) • Value Proposition Design (Osterwalder/Pigneur, 2014) • Business Model Canvas (Osterwalder/Pigneur, 2010) • The Lean Startup (Eric Ries, 2011) • This Is Service Design Thinking (Stickdorn/Schneider, 2012)

Lehrveranstaltung L2294: Agile Design Methods	
Typ	Vorlesung
SWS	2
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 62, Präsenzstudium 28
Dozenten	Dr. Stephan Buse
Sprachen	EN
Zeitraum	SoSe
Inhalt	Siehe korrespondierende Vorlesung
Literatur	Siehe korrespondierende Vorlesung

Modul M1360: Sustainable Innovation Management			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Nachhaltiges Innovationsmanagement (L1937)	Vorlesung	4	3
Nachhaltiges Innovationsmanagement - Seminar (L1938)	Projekt-/problembasierte Lehrveranstaltung	3	3
Modulverantwortlicher	Prof. Cornelius Herstatt		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	Basic knowledge in business administration		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 82, Präsenzstudium 98		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	90 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Pflicht		

Lehrveranstaltung L1937: Sustainable Innovation Management	
Typ	Vorlesung
SWS	4
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 34, Präsenzstudium 56
Dozenten	Prof. Cornelius Herstatt
Sprachen	EN
Zeitraum	SoSe
Inhalt	The course aims to equip students with an understanding of key issues in the management of innovation and an appreciation of the relevant skills needed to manage innovation at both strategic and operational levels. It provides evidence of different approaches based on leading research, real world examples and experiences of firms and organizations from around the world. The management of innovation is one of the most important and challenging aspects of modern organization. Innovation is a fundamental driver of competitiveness and it plays a large part in improving quality of life. Innovation, and particularly technological innovation, is inherently difficult, uncertain and risky, and most new technologies fail to be translated into successful products and services. Given this, it is essential that students understand the strategies, tools and techniques for managing innovation, which often requires a different set of management knowledge and skills from those employed in everyday business administration. The course itself draws upon research activities of the Institute for Technology and Innovation Management at the TUHH (www.tuhh.de/tim) Lecture Topics: • The Management of (Technological) Innovation • Strategy and Organization for Innovation • Managing the Innovation Process • Innovation in the Age of Circular Economy (C2C) • Market-Research for Innovation and Design-thinking • Capturing value from R&D, Open Innovation and IP • Creativity and mindfulness in Innovation
Literatur	LITERATURE Dodgson, M. Gann, D. and Salter A. The management of technological innovation: strategy and practice, Oxford University Press, 2008. Tidd, J., Bessant, J. and Pavitt, K.: Managing Innovation: Integrating technological, market and organizational change, 5th edition, John Wiley and Sons, 2013. Goffin, K., Mitchell, R.: Innovation Management: Effective strategy and implementation Paperback, 3rd edition, 15. November 2016

Lehrveranstaltung L1938: Sustainable Innovation Management -Seminar	
Typ	Projekt-/problemorientierte Lehrveranstaltung
SWS	3
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 48, Präsenzstudium 42
Dozenten	Prof. Cornelius Herstatt
Sprachen	EN
Zeitraum	SoSe
Inhalt	The seminar "Management of Innovations" provides a practice-oriented application of the teaching material conveyed in the lecture "Management of Innovations". Students work in groups on selected topics of innovation management. Consequently, participation in the seminar requires participation in the lecture.
Literatur	Die Grundlagenliteratur ist deckungsgleich zu der gleichnamigen Vorlesungsliteratur. Hinzu kommt themenspezifische Fachliteratur bezüglich der zu behandelnden Fragestellungen.

Modul M1782: Digital Transformation of the Innovation Value Chain

Lehrveranstaltungen

Titel	Typ	SWS	LP
Digitale Transformation der Innovationswertschöpfungskette - PBL Vorlesung (L2939)	Projekt-/problembasierte Lehrveranstaltung	3	3
Digitale Transformation der Innovationswertschöpfungskette - Seminar (L2940)	Seminar	2	3
Modulverantwortlicher	Dr. Stephan Buse		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 110, Präsenzstudium 70		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Fachtheoretisch-fachpraktische Arbeit		
Prüfungsdauer und -umfang	ca. 10 Seiten schriftliche Ausarbeitung, Präsentation und mündliche Beteiligung		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Wahlpflicht		

Lehrveranstaltung L2939: Digital Transformation of the innovation Value Chain - PBL Lecture

Typ	Projekt-/problembasierte Lehrveranstaltung
SWS	3
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 48, Präsenzstudium 42
Dozenten	Dr. Stephan Buse
Sprachen	EN
Zeitraum	SoSe
Inhalt	
Literatur	

Lehrveranstaltung L2940: Digital Transformation of the Innovation Value Chain - Seminar

Typ	Seminar
SWS	2
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 62, Präsenzstudium 28
Dozenten	Dr. Stephan Buse
Sprachen	EN
Zeitraum	SoSe
Inhalt	
Literatur	

Modul M0855: Marketing (Sales and Services / Innovation Marketing)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Innovationsmarketing (L2009)	Vorlesung	4	4
PBL Innovationsmarketing (L0862)	Projekt-/problembasierte Lehrveranstaltung	1	2
Modulverantwortlicher	Prof. Christian Lühje		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	• Module International Business • Basic understanding of business administration principles (strategic planning, decision theory, project management, international business) • Bachelor-level Marketing Knowledge (Marketing Instruments, Market and Competitor Strategies, Basics of Buying Behavior) • Understanding the differences between B2B and B2C marketing • Understanding of the importance of managing innovation in global industrial markets • Good English proficiency; presentation skills		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	Students will have gained a deep understanding of • Specific characteristics in the marketing of innovative products and services • Approaches for analyzing the current market situation and the future market development • The gathering of information about future customer needs and requirements • Concepts and approaches to integrate lead users and their needs into product and service development processes • Approaches and tools for ensuring customer-orientation in the development of new products and innovative services • Marketing mix elements that take into consideration the specific requirements and challenges of innovative products and services • Pricing methods for new products and services • The organization of complex sales forces and personal selling • Communication concepts and instruments for new products and services		
<i>Fertigkeiten</i>	Based on the acquired knowledge students will be able to: • Design and to evaluate decisions regarding marketing and innovation strategies • Analyze markets by applying market and technology portfolios • Conduct forecasts and develop compelling scenarios as a basis for strategic planning • Translate customer needs into concepts, prototypes and marketable offers and successfully apply advanced methods for customer-oriented product and service development • Use adequate methods to foster efficient diffusion of innovative products and services • Choose suitable pricing strategies and communication activities for innovations • Make strategic sales decisions for products and services (i.e. selection of sales channels) • Apply methods of sales force management (i.e. customer value analysis)		
Personale Kompetenzen <i>Sozialkompetenz</i>	The students will be able to • have fruitful discussions and exchange arguments • develop original results in a group • present results in a clear and concise way • carry out respectful team work		
<i>Selbstständigkeit</i>	The students will be able to • Acquire knowledge independently in the specific context and to map this knowledge on other new complex problem fields. • Consider proposed business actions in the field of marketing and reflect on them.		
Arbeitsaufwand in Stunden	Eigenstudium 110, Präsenzstudium 70		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Fachtheoretisch-fachpraktische Arbeit		
Prüfungsdauer und -umfang	Schriftliche Ausarbeitung, Übungsaufgaben, Präsentation, mündliche Beteiligung		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Pflicht Internationales Wirtschaftsingenieurwesen: Vertiefung I. Management: Wahlpflicht Mechanical Engineering and Management: Vertiefung Management: Wahlpflicht Mediziningenieurwesen: Vertiefung Künstliche Organe und Regenerative Medizin: Wahlpflicht Mediziningenieurwesen: Vertiefung Implantate und Endoprothesen: Wahlpflicht Mediziningenieurwesen: Vertiefung Medizin- und Regelungstechnik: Wahlpflicht Mediziningenieurwesen: Vertiefung Management und Administration: Pflicht		

Lehrveranstaltung L2009: Marketing of Innovations	
Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Christian Lüthje
Sprachen	EN
Zeitraum	SoSe
Inhalt	I. Introduction • Innovation and service marketing (importance of innovative products and services, model, objectives and examples of innovation marketing, characteristics of services, challenges of service marketing) II. Methods and approaches of strategic marketing planning • patterns of industrial development, patent and technology portfolios III. Strategic foresight and scenario analysis • objectives and challenges of strategic foresight, scenario analysis, Delphi method IV. User innovations • Role of users in the innovation process, user communities, user innovation toolkits, lead users analysis V. Customer-oriented Product and Service Engineering • Conjoint Analysis, Kano, QFD, Morphological Analysis, Blueprinting VII. Pricing • Basics of Pricing, Value-based pricing, Pricing models VIII. Sales Management • Basics of Sales Management, Assessing Customer Value, Planning Customer Visits IX. Communications • Diffusion of Innovations, Communication Objectives, Communication Instruments
Literatur	Mohr, J., Sengupta, S., Slater, S. (2014). Marketing of high-technology products and innovations, third edition, Pearson education. ISBN-10: 1292040335 . Chapter 6 (188-210), Chapter 7 (227-256), Chapter 10 (352-365), Chapter 12 (419-426). Crawford, M., Di Benedetto, A. (2008). New products management, 9th edition, McGraw Hill, Boston et al., 2008 Christensen, C. M. (1997). Innovator's Dilemma: When New Technologies Cause Great Firms to Fail, Harvard Business Press, Chapter 1: How can great firms fail?, pp. 3-24. Hair, J. F., Bush, R. P., Ortinau, D. J. (2009). Marketing research. 4th edition, Boston et al., McGraw Hill Tidd, J. & Hull, Frank M. (Editors) (2007) Service Innovation, London Von Hippel, E.(2005). Democratizing Innovation, Cambridge: MIT Press

Lehrveranstaltung L0862: PBL Marketing of Innovations	
Typ	Projekt-/problembasierte Lehrveranstaltung
SWS	1
LP	2
Arbeitsaufwand in Stunden	Eigenstudium 46, Präsenzstudium 14
Dozenten	Prof. Christian Lüthje
Sprachen	EN
Zeitraum	SoSe
Inhalt	This PBL course is segregated into two afternoon sessions. This course aims at enhancing the students' practical skills in (1) forecasting the future development of markets and (2) making appropriate market-related decisions (particularly segmentation, managing the marketing mix). The students will be prompted to use the knowledge gathered in the lecture of this module and will be invited to (1) Conduct a scenario analysis for an innovative product category and (2) Engage in decision making within a market simulation game.
Literatur	

Modul M1884: Data-Driven Innovation

Lehrveranstaltungen

Titel	Typ	SWS	LP
Data-Driven Innovation (L3114)	Vorlesung	3	3
Data-Driven Innovation Seminar (L3115)	Projekt-/problembasierte Lehrveranstaltung	2	3

Modulverantwortlicher	Prof. Moritz Göldner
Zulassungsvoraussetzungen	None
Empfohlene Vorkenntnisse	none
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht
Fachkompetenz <i>Wissen</i>	By the end of this course, students will be able to: - Understand the principles of Design Thinking and recognize their significance in conjunction with data-driven decision-making within the innovation process. - Apply new methods for data analysis to identify user needs and insights. - Demonstrate competence in using tools, including generative AI, through practical experience with real case studies and/or publicly accessible data repositories. - Utilize methods that support strategic decision-making in the context of data-driven innovation. - Evaluate ethical aspects and privacy regulations related to data-driven innovation.
<i>Fertigkeiten</i>	- The students develop a profound understanding of the principles of Design Thinking and recognize their significance in the innovation process, taking into account data-driven decision-making. - The students learn advanced methods for data analysis that enable them to effectively identify and understand user needs and insights. - Through practical exercises involving real case studies and/or publicly accessible data repositories, the students gain competencies in using various tools, including generative artificial intelligence. - The students acquire methods that assist them in making and implementing strategic decisions in the context of data-driven innovation. - The students are sensitized to the ethical aspects and privacy regulations that need to be considered in the context of data-driven innovation and learn to critically evaluate them. The students acquire these skills through active engagement in paper presentations, group work, case studies, and other practical exercises. They are guided to deliver multiple presentations and work in small groups on real-world problems. Through these diverse methodological approaches, the students are empowered to apply their skills in practice and continuously develop their competencies.
Personale Kompetenzen <i>Sozialkompetenz</i>	- Teamwork and collaboration: Students are encouraged to collaborate closely with their peers in group work and case studies. They learn to effectively work in interdisciplinary teams to solve complex problems and develop innovative approaches. In the process, they further develop their communication and cooperation skills. - Presentation and communication skills: Through paper presentations and other formats, students are guided to present their findings and research results to their peers. This enhances their ability to present content clearly and convincingly and effectively communicate their ideas. - Discussion and negotiation skills: The lecture promotes active discussions and the exchange of different viewpoints. Students learn to express their opinions and arguments, consider other perspectives, and engage in constructive discussions. This develops their ability for critical reflection and collaboration in an academic environment. - Empathy and collaboration: Dealing with data-driven innovation requires an understanding of the needs and perspectives of various stakeholders. Students learn to be empathetic and prioritize collaboration and common goals. This helps them develop solutions that take into account the needs and concerns of all parties involved. - Intercultural competence: Through collaboration in interdisciplinary teams, students have the opportunity to work with peers from different cultural backgrounds and disciplines. They develop intercultural competencies by expanding their perspectives and learning to communicate and collaborate successfully in a global environment. By practically applying these social skills in various exercises, group work, and discussions, students are prepared to work successfully in team-based projects and further develop their abilities to collaborate with other professionals.
<i>Selbstständigkeit</i>	- Self-Management: Students learn to effectively organize their time, set priorities, and independently plan and manage their tasks. They develop strategies for self-motivation and overcoming challenges to successfully complete their studies. - Self-Directed Learning: Students are encouraged to independently research knowledge, study additional literature, and engage with current developments in their field of study. They develop the ability for self-directed learning and continuous education to keep their knowledge up to date with the latest trends and innovations in their field. - Problem-Solving Skills: Students learn to identify, analyze, and develop solutions for complex problems. They are

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	encouraged to employ critical thinking and analytical skills to find effective solutions to real-world challenges. The lecture exposes them to various case studies and practical exercises to enhance their problem-solving abilities. • Taking Initiative: Students are encouraged to be proactive and take initiative in pursuing their own learning and career goals. They develop the ability to recognize opportunities, address challenges, and develop innovative solutions. They are supported in taking risks and taking responsibility for their own learning and personal development.		
Arbeitsaufwand in Stunden	Eigenstudium 110, Präsenzstudium 70		
Leistungspunkte	6		
Studienleistung	Verpflichtend Bonus	Art der Studienleistung	Beschreibung
	Ja 20 %	Übungsaufgaben	Erfolgreiche Teilnahme PBL-Übung
Prüfung	Klausur		
Prüfungsdauer und -umfang	90 min		
Zuordnung zu folgenden Curricula	Data Science: Vertiefung III. Applications: Wahlpflicht Data Science: Vertiefung IV. Special Focus Area: Wahlpflicht Global Technology and Innovation Management & Entrepreneurship: Kernqualifikation: Wahlpflicht Internationales Wirtschaftsingenieurwesen: Vertiefung II. Informationstechnologie: Wahlpflicht		

Lehrveranstaltung L3114: Data-Driven Innovation	
Typ	Vorlesung
SWS	3
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 48, Präsenzstudium 42
Dozenten	Prof. Moritz Göldner
Sprachen	EN
Zeitraum	SoSe
Inhalt	This course aims to combine the principles of design thinking with data science, focusing on all steps of the design thinking process from understanding the problem, investigating user's needs and integrating these needs into the development and testing in a data-driven manner. Students will learn several methods to accelerate the innovation process (such as generative AI and modern market research platforms) as well as more general data science methodologies to streamline the innovation process. Established and modern, data-driven methods will be compared and critically evaluated, including ethical and privacy-related considerations. Through a series of lectures, hands-on exercises, and project presentations, students will not only develop a robust theoretical understanding of these topics, but will also gain practical experience applying these concepts in realistic innovation scenarios.
Literatur	Luo, J. (2023). Data-driven innovation: What is it?. IEEE Transactions on Engineering Management, 70(2), 784-790. https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9707478

Lehrveranstaltung L3115: Data-Driven Innovation Seminar	
Typ	Projekt-/problemorientierte Lehrveranstaltung
SWS	2
LP	3
Arbeitsaufwand in Stunden	Eigenstudium 62, Präsenzstudium 28
Dozenten	Prof. Moritz Göldner
Sprachen	EN
Zeitraum	SoSe
Inhalt	This course aims to combine the principles of design thinking with data science, focusing on all steps of the design thinking process from understanding the problem, investigating user's needs and integrating these needs into the development and testing in a data-driven manner. Students will learn several methods to accelerate the innovation process (such as generative AI and modern market research platforms) as well as more general data science methodologies to streamline the innovation process. Established and modern, data-driven methods will be compared and critically evaluated, including ethical and privacy-related considerations. Through a series of lectures, hands-on exercises, and project presentations, students will not only develop a robust theoretical understanding of these topics, but will also gain practical experience applying these concepts in realistic innovation scenarios.
Literatur	Luo, J. (2023). Data-driven innovation: What is it?. IEEE Transactions on Engineering Management, 70(2), 784-790. https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9707478

Fachmodule der Vertiefung Entrepreneurial Business Engineering (AAU)

Geschäftsentwicklung durch Technologie, Innovation und Unternehmertum sind die Schlüsselkompetenzen der Zukunft in der globalen Geschäftswelt, sowohl in Start-up-Unternehmen, etablierten privaten Organisationen als auch in Wissens- und Dienstleistungsorganisationen des öffentlichen Sektors. Neue Wege zur Wertschöpfung zu finden, ist zunehmend eine Bedingung für private und öffentliche Organisationen.

In Entrepreneurial Engineering lernen Sie, wie Sie ein Unternehmen gründen, entwickeln und stärken können. Sie erhalten Einblicke in Methoden und Prozesse sowie in Organisations- und Managementprinzipien in Bezug auf Innovation und Unternehmertum in neuen und etablierten Unternehmen.

Sie erhalten Kenntnisse über:

Unternehmensgründung und -entwicklung

Im Kernfach des Studiengangs spezialisieren Sie sich auf Corporate Entrepreneurship und Gestaltungsprozesse, technologisches Innovationsmanagement und angewandte Geschäftsmodellierung, Finanzmanagement und Finanzierung für Unternehmer, Marketing und Projektmanagement. Darauf aufbauend können Sie in Semesterprojekten wählen, ob Sie sich auf die Gründung eines eigenen Unternehmens konzentrieren oder mit einem bereits etablierten Unternehmen zusammenarbeiten.

Durch problembasiertes Lernen entwickeln Sie Kompetenzen, um Lösungen für aktuelle und spezifische unternehmerische Herausforderungen sowohl einzeln als auch im Team zu identifizieren, zu analysieren und zu präsentieren. So bauen Sie ein Ausbildungsprofil auf, das Sie darauf vorbereitet, an komplexen Veränderungsprozessen mitzuwirken und neue Lösungen zu entwickeln.

Ideenfindung, -umsetzung und -entwicklung

Methoden, Prozesse und Prinzipien für Management und Organisationen, um Innovation und Unternehmertum zu verfolgen

Modul M1821: Semester Project incl. Executing Entrepreneurial Ideas (AAU)				
Lehrveranstaltungen				
Titel		Typ	SWS	LP
Semesterprojekt inkl. Umsetzung von unternehmerischen Ideen (AAU) (L3018)		Projektseminar	15	15
Modulverantwortlicher	NN			
Zulassungsvoraussetzungen	None			
Empfohlene Vorkenntnisse	None			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht			
Fachkompetenz <i>Wissen</i>	The objective is that the student after the module possesses the necessary knowledge on: - resources for entrepreneurial processes and strategy, including IPR strategy. - important framework conditions for entrepreneurs such as policy, business incubators and technology transfer offices. - core constructs of entrepreneurship of relevance to executing entrepreneurial ideas			
<i>Fertigkeiten</i>	The objective is that the student after the module possesses the necessary skills in: - planning business development and assessing the role of creativity in that. - giving a critical perspective on effective and efficient business planning.			
Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	The objective is that the student after the module possesses the necessary competences in: - independently create, coordinate and execute a business plan. - developing novel recommendations for executing entrepreneurial ideas and promoting entrepreneurship.			
Arbeitsaufwand in Stunden	Eigenstudium 240, Präsenzstudium 210			
Leistungspunkte	15			
Studienleistung	Keine			
Prüfung	Mündliche Prüfung			
Prüfungsdauer und -umfang	40 min			
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU); Pflicht			

Lehrveranstaltung L3018: Semester Project incl. Executing Entrepreneurial Ideas (AAU)	
Typ	Projektseminar
SWS	15
LP	15
Arbeitsaufwand in Stunden	Eigenstudium 240, Präsenzstudium 210
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	Both in an existing organisation and as an individual entrepreneur bringing innovative ideas into life requires planning, management, resources, competencies and environments conducive for taking the idea forward. This module provides an understanding of how to pursue opportunities but also on learning and practising this. The module adds an applied dimension to several entrepreneurship topics. While introducing a number of instruments for business planning the module also provides a critical perspective on business planning and on the rationale for promoting entrepreneurship. Moreover, the module introduces some of the most important framework conditions for university-based entrepreneurs. Finally, as 'There is nothing as practical as a good theory' we will also deal with some of the core theoretical issues in entrepreneurship.
Literatur	

Modul M1822: Management of Technological Innovation and Applied Business Modelling (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Management der technologischen Innovation und angewandte Unternehmensmodellierung (AAU) (L3019)	Projektseminar	10	10
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	The objective is that the student after the module possesses the necessary knowledge on: • main concepts, definitions, theories and models related to management of technological innovation processes and business models. • theories on how contextual factors affect the innovation processes within firms. • how to distinguish between different business models and innovation types applied in different industries • and insights into the important role of change in organisations, and how firms should organise and manage such transition processes accordingly - both strategically and operationally. SKILLS The objective is that the student after the module possesses the necessary skills in: • finding, accessing and assessing relevant data and information from databases and online sources on firms' innovation and business modelling activities • identifying the various challenges involved in innovation processes and making recommendations for handling these challenges. • analytically and critically arguing for the most suitable business model for a new business based on data collected through desk- and field research. • applying the business model as a strategic tool of communication within new business creation including reflecting upon different archetypes of business models and scenarios of business model prototyping COMPETENCES The objective is that the student after the module possesses the necessary competences in: • independently coordinating and conducting an analysis of innovation processes in a firm. • developing recommendations for innovation management and applied business modelling in different types of organisations from both an external and internal perspective. • being self-reflective, critical and open to different actors, competencies and constraints through a process of organisational transition and change.		
Arbeitsaufwand in Stunden	Eigenstudium 160, Präsenzstudium 140		
Leistungspunkte	10		
Studienleistung	Keine		
Prüfung	Mündliche Prüfung		
Prüfungsdauer und -umfang	40 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3019: Management of Technological Innovation and Applied Business Modelling (AAU)	
Typ	Projektseminar
SWS	10
LP	10
Arbeitsaufwand in Stunden	Eigenstudium 160, Präsenzstudium 140
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	Facing intense competition, companies find themselves competing under ever-changing conditions. Those changes force companies to rethink, reorganize and innovate their business offerings and processes as well as change their business model in order to remain competitive. Therefore, management of technological innovation and applied business modelling has become a key challenge for firms. The purpose of the module is to give the students an insight in technological innovation management and applied business modelling, both as a descriptive discipline for existing business, and an innovation discipline for new business. In doing so, this module addresses fundamental issues, and introduces new ideas and theoretical perspectives, both as a descriptive discipline for existing business, and an innovation discipline for new business. We will take a look at the foundations and dynamics of technological innovation and business modelling as well as the implications for firms. This objective includes helping students in attaining better understanding, skills, and competences regarding the role of technology, innovation and change in business as well as the challenges available in, and solutions offered through, organizational transition and change processes. Throughout the module it is emphasised how an organisation, and changes in an organisation, can be understood in relationship with the context of business model innovation as well as technological innovation management. In addition, the module will illustrate ways in which managers could deal with some of these technological innovation and business modelling challenges. Prominence attention is given for providing the students with frameworks and methods that are both theoretically sound and practically useful.
Literatur	

Modul M1823: Corporate Entrepreneurship, Management and Technology (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Unternehmerische Initiative, Management und Technologie (AAU) (L3020)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz	The objective is that the student after the module possesses the necessary knowledge on: - main concepts, models and frameworks related to corporate entrepreneurship, technology and innovation - the role and impact of corporate entrepreneurship, management and technology in organisations. - high-impact innovation processes and how to organize them in and around companies in interaction with relevant actors in the business environment. The objective is that the student after the module possesses the necessary skills in: - identifying and analysing challenges of corporate entrepreneurship, management and technology in organizations. - identifying relevant external actors and networks to consider in pursuing corporate entrepreneurship. - choosing relevant theories, methods, and tools in analysing issues related to corporate entrepreneurship management and technology. The objective is that the student after the module possesses the necessary competences in: - auditing, evaluating and contributing to design of the innovative capabilities of an established organisation. - navigating in contexts of corporate entrepreneurship, management and technology given the complexity, politics and emergent nature of the processes. developing conceptual solutions to the challenges faced by established organisations when attempting to organise corporate entrepreneurship, management and technology.		
Wissen			
Fertigkeiten			
Personale Kompetenzen			
Sozialkompetenz			
Selbstständigkeit			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Mündliche Prüfung		
Prüfungsdauer und -umfang	40 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3020: Corporate Entrepreneurship, Management and Technology (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	In a rapidly changing world that we live in, it is utmost important for organisations to continuously develop new services, products, and business areas to survive and grow. In terms of creating changes through innovation and business development, established firms face challenges different from those that new firms face. In this module, we aim to understand the role and the processes of corporate entrepreneurship in established firms. We will also explore the external business context - local, national, global networks - that firms are a part of and interacting with, when pursuing innovation and business development. Furthermore, technological aspects of business development and innovation in established companies is explored both in product, process and business model innovation. The module covers both theoretical and practical insights through lectures, discussions and case assignments.
Literatur	to be announced

Modul M1824: Project Based Business Cooperation I (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Projektbezogene wirtschaftliche Zusammenarbeit I (AAU) (L3021)	Projektseminar	10	10
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: • how organisations apply principles from the master programme discipline in practice. • practical issues within master programme issues. SKILLS The objective is that the student after the module possesses the necessary skills in: • applying relevant knowledge and skills in practice to identify and solve specific master programme - related task in collaboration with external partners. • critically thinking and reflecting on practice to connect theory and practice, including how principles from the master programme disciplines can be applied in practice. COMPETENCES The objective is that the student after the module possesses the necessary competences in: • converting practical experiences performed during the business cooperation into learning and new knowledge. • combining theory and practice to solve master programme-related tasks.		
Arbeitsaufwand in Stunden	Eigenstudium 160, Präsenzstudium 140		
Leistungspunkte	10		
Studienleistung	Keine		
Prüfung	Mündliche Prüfung		
Prüfungsdauer und -umfang	40 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3021: Project based Business Cooperation I (AAU)	
Typ	Projektseminar
SWS	10
LP	10
Arbeitsaufwand in Stunden	Eigenstudium 160, Präsenzstudium 140
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	In this module the student will complete collaborative process with a Danish or foreign organisation. This allows students to gain a minimum of 240 hours of valuable work experience while studying. During the collaborative process, students will work on a specific project related to the master programme while working on identifying, exploring, analysing and reflecting on a master programme-related problem of their choice. The purpose of this module is to allow the student to acquire practical experience through working in an organisation with a specific project and bring their knowledge into play by trying out their theoretical and methodological competences in practice. The business cooperation will result in a written report, where the student explicates the knowledge, skills, and competencies acquired during the internship and combine it with contemporary knowledge acquired in the core modules of the master programme. A supervisor will be assigned to the student.
Literatur	

Modul M1825: Project Based Business Cooperation II (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Projektbezogene wirtschaftliche Zusammenarbeit II (AAU) (L3024)	Projektseminar	15	15
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i> <i>Fertigkeiten</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: • how organisations apply principles from the master programme discipline in practice. • practical issues within master programme issues. SKILLS The objective is that the student after the module possesses the necessary skills in: • applying relevant knowledge and skills in practice to identify and solve specific master programme - related task in collaboration with external partners. • critically thinking and reflecting on practice to connect theory and practice, including how principles from the master programme disciplines can be applied in practice. COMPETENCES The objective is that the student after the module possesses the necessary competences in: • converting practical experiences performed during the business cooperation into learning and new knowledge. • combining theory and practice to solve master programme-related tasks.		
Arbeitsaufwand in Stunden	Eigenstudium 240, Präsenzstudium 210		
Leistungspunkte	15		
Studienleistung	Keine		
Prüfung	Mündliche Prüfung		
Prüfungsdauer und -umfang	40 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3024: Project based Business Cooperation II (AAU)	
Typ	Projektseminar
SWS	15
LP	15
Arbeitsaufwand in Stunden	Eigenstudium 240, Präsenzstudium 210
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	In this module the student will complete collaborative process with a Danish or foreign organisation. This allows students to gain a minimum of 240 hours of valuable work experience while studying. During the collaborative process, students will work on a specific project related to the master programme while working on identifying, exploring, analysing and reflecting on a master programme-related problem of their choice. The purpose of this module is to allow the student to acquire practical experience through working in an organisation with a specific project and bring their knowledge into play by trying out their theoretical and methodological competences in practice. The business cooperation will result in a written report, where the student explicates the knowledge, skills, and competencies acquired during the internship and combine it with contemporary knowledge acquired in the core modules of the master programme. A supervisor will be assigned to the student.
Literatur	

Modul M1826: Project Based Business Corporation III (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Projektbezogene wirtschaftliche Zusammenarbeit III (AAU) (L3025)	Projektseminar	20	20
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i> <i>Fertigkeiten</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: • how organisations apply principles from the master programme discipline in practice. • practical issues within master programme issues. SKILLS The objective is that the student after the module possesses the necessary skills in: • applying relevant knowledge and skills in practice to identify and solve specific master programme - related task in collaboration with external partners. • critically thinking and reflecting on practice to connect theory and practice, including how principles from the master programme disciplines can be applied in practice. COMPETENCES The objective is that the student after the module possesses the necessary competences in: • converting practical experiences performed during the business cooperation into learning and new knowledge. • combining theory and practice to solve master programme-related tasks.		
Arbeitsaufwand in Stunden	Eigenstudium 320, Präsenzstudium 280		
Leistungspunkte	20		
Studienleistung	Keine		
Prüfung	Mündliche Prüfung		
Prüfungsdauer und -umfang	40 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3025: Project based Business Cooperation III (AAU)	
Typ	Projektseminar
SWS	20
LP	20
Arbeitsaufwand in Stunden	Eigenstudium 320, Präsenzstudium 280
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	In this module the student will complete collaborative process with a Danish or foreign organisation. This allows students to gain a minimum of 240 hours of valuable work experience while studying. During the collaborative process, students will work on a specific project related to the master programme while working on identifying, exploring, analysing and reflecting on a master programme-related problem of their choice. The purpose of this module is to allow the student to acquire practical experience through working in an organisation with a specific project and bring their knowledge into play by trying out their theoretical and methodological competences in practice. The business cooperation will result in a written report, where the student explicates the knowledge, skills, and competencies acquired during the internship and combine it with contemporary knowledge acquired in the core modules of the master programme. A supervisor will be assigned to the student.
Literatur	

Modul M1827: Business Design and Sustainability (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Unternehmensgestaltung und Nachhaltigkeit (AAU) (L3022)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: - the theoretical fundamentals of the functioning of markets in relationship to entrepreneurship and sustainability. - key methods and processes for business design both in theory and practice. - theoretical and practical methods and approaches to navigating patterns for sustainable business design, for example problem solving approach and opportunity exploration approach. SKILLS The objective is that the student after the module possesses the necessary skills in: - planning and organizing to assess risks and opportunities related to sustainable technologies and ideas. - analytically and critically relating to market barriers of sustainability and apply relevant knowledge to envision solutions to them. COMPETENCES The objective is that the student after the module possesses the necessary competences in: - applying relevant knowledge and abilities to generalise, abstract and build understanding of key issues within Business Design and Sustainability. - independently conducting ongoing analyses, adapting and possibly developing new solutions for key business design and sustainability issues as the complexity increases. translating the knowledge and abilities necessary in order to be part of processes related to business design and sustainability on an academic, interdisciplinary and professional basis.		
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Mündliche Prüfung		
Prüfungsdauer und -umfang	20 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3022: Business Design and Sustainability (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	Business - particularly entrepreneurial start-ups working with innovative technologies - has a vital contribution to make to sustainable development. The idea is that entrepreneurial start-ups are a very powerful and agile innovation engine. And this potential for innovation can be used to turn sustainability challenges into opportunities for profits. However, and despite their critical importance, new sustainable technologies or even new scientific discoveries and ideas, by themselves, are not sufficient. Generally speaking, unregulated markets are quite inefficient in valuing environmental and social value creation. As a consequence, the rewards for addressing environmental or social problems with novel technologies or solutions are often ambiguous, a fact that makes it difficult to turn sustainable technologies and the products and services based on them in opportunities for profits. To be able to reach their full potential to contribute solving sustainability challenges, new technologies as well as the products and services developed on them, require to be brought to markets with appropriate business models, namely sustainable business models. Designing sustainable business models is not, in itself, easy. First of all it requires to become familiar with the main tools, the governing ideas, and the methods for the design of business. These include, among others, the iterative processes that entrepreneurs and innovators need to diligently manage uncertainty and proceed towards finding scalable and repeatable business models. It also involves understanding what are market-based barriers to sustainability and acquire the knowledge relative to how innovative business models design can support overcoming such barriers. Building on these premises, this elective module offers participants to learn how to systematically analyse risks and opportunities related to sustainable technologies, scientific discoveries and ideas that can solve social and environmental problems and how to design sustainable business models for them.
Literatur	

Modul M1828: Business Design (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Unternehmensdesign (AAU) (L3023)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	The objective is that the student after the module possesses the necessary knowledge on: - key theoretical approaches to business design in an open organisational context, being capable of reflecting on the modification of business models on a scientific basis. - key methodical approaches to study and modify business models from both a theoretical and a practical perspective. - key theoretical aspects of collaboration and partnerships in an open organisational context. Skills The objective is that the student after the module possesses the necessary skills in: - selecting and applying relevant methods and tools in order to generate knowledge and analyse key issues within business design. - arguing both theoretically and practically for opportunities and limitations within business design in an open organisational context. - presenting and discussing professional and scientific issues within business design with different target groups. Competences The objective is that the student after the module possesses the necessary competences in: - applying relevant knowledge and abilities to generalise, abstract and build understanding of key issues within business design. - independently conducting ongoing analyses, adapting and possibly developing new solutions for key business design issues as the complexity increases. translating the knowledge and abilities necessary in order to be part of processes related to business design on an academic, interdisciplinary and professional basis.		
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Mündliche Prüfung		
Prüfungsdauer und -umfang	20 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3023: Business Design (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	Business design includes an introduction to classic business design concepts with specific focus on developing and implementing business models in existing companies across industries. The student will be introduced to organisational issues through the development and modification of business models and will work with innovation of business models in practice. The point of departure will be new contextual challenges for business design. The development of business models is discussed in relation to existing business context, ecosystems and networks, with focus on the way in which business models develop across organisational boundaries and how this process is supported by collaboration and partnership.
Literatur	

Modul M1829: Sustainability and Non-Market Strategy (AAU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Nachhaltigkeit und nicht-marktbezogene Strategie (AAU) (L3026)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: • central theoretical and practical approaches to corporate social responsibility (CSR). • how firms integrate sustainability strategies to maximize social, environmental, and economic value. • defining and exemplifying the roles of different actors such as government, non-government organisations, international organisations, and businesses in responding to sustainability challenges. SKILLS The objective is that the student after the module possesses the necessary skills in: • applying digital tools to analyse sustainability metrics and firm outcomes related to issues of sustainability. • understanding, evaluating, and synthesising conflicting arguments for and against corporate social responsibility (CSR). • independently identifying and addressing issues of sustainability, keeping in mind economic, social and ecological concerns. COMPETENCES The objective is that the student after the module possesses the necessary competences in: • taking a problem-based approach to explore central challenges within sustainability and non-market strategy. • applying critical and reflexive thinking skills useful to analyse and identify sustainability challenges and opportunities integrating knowledge from management theory and issues of sustainability for problem solving in real world challenges of sustainability.		
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3026: Sustainability and Non-Market Strategy (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	As the role of business becomes increasingly important in the fight against climate change, the module on Sustainability and Non-market Strategy aims to highlight the importance of sustainability in business. Students in this module will evaluate 1) the various drivers behind sustainability such as cost savings, growth opportunities, innovation, differentiation, and competitive advantage for motivations that can range from environmental to strategic; 2) how companies respond by integrating sustainability into their strategy, setting goals and standards, as well as different shades of green; and 3) when firms maximize social, environmental, and economic value from solving sustainability issues. Sustainability and Non-market Strategy thus refers to decisions regarding issues of Environment, Social, and Governance issues that firms face, and how firms respond to these challenges. This module should be of value for students interested in issues of sustainability, corporate social responsibility, leadership, and corporate strategy for a world adapting to climate change challenges. In order to achieve these goals, the module will cover topics such as UN Sustainable Development Goals, economics of climate change, CSR, greenwashing, leadership in sustainability, emerging technologies, corporate political activity, and role of government. The module aims to develop critical thinking skills that are useful to identify and analyse challenges and opportunities in sustainability, as well as become responsible leaders and effective agents of social change. The module will take a strategic approach to understanding sustainability, examine recent research to analyse critical, ethical, and managerial issues in issues of sustainability.
Literatur	

Modul M1830: Causal Data Science for Decision Making in Business (AAU)						
Lehrveranstaltungen						
Titel	Typ	SWS	LP			
Kausale Datenwissenschaft für die Entscheidungsfindung in der Wirtschaft (AAU) (L3027)	Vorlesung	5	5			
Modulverantwortlicher	NN					
Zulassungsvoraussetzungen	None					
Empfohlene Vorkenntnisse	none					
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht					
Fachkompetenz	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: - correlation and causation and the inherent differences of these concepts. - central theoretical concepts behind a range of causal data science tools and algorithms. - the theoretical and practical role of causal inference for data-driven business problems in strategic decisions. SKILLS The objective is that the student after the module possesses the necessary skills in: - applying causal thinking to explore both theoretical and practical business decisions. - identifying on an academic basis the potentials and challenges for applying causal thinking in decision making. - presenting and discussing both professional and academic challenges within causal data science for different target groups using relevant software. COMPETENCES The objective is that the student after the module possesses the necessary competences in: - independently carrying out casual data analysis to solve real world problems related to business decision making. - uniting theory and practice within management theory in relation to causal inference in business analytics. applying a problem-based approach to central challenges within management and causal inference in business analytics.					
Wissen						
Personale Kompetenzen						
Fertigkeiten						
Sozialkompetenz						
Selbstständigkeit						
Arbeitsaufwand in Stunden				Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte				5		
Studienleistung				Keine		
Prüfung				Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang				Prüfung abgelegt an der Aalborg University		
Zuordnung zu folgenden Curricula				Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3027: Causal Data Science for Decision Making in Business (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	Managers today need to better understand cause and effect in organisations where data plays an important role in decision-making. While machine learning and AI tools can help with identifying relationships in data, such standard tools often do not detect cause and effect relationships in the data. This creates a shortcoming for managers and strategists where these algorithms may not allow to answer important questions in business analytics and decision making regarding “what is the effect of X on Y?” or “did X cause Y to change?”. Many prominent firms such as Google, Uber, Zalando, McKinsey and Spotify are investing in their causal data science capabilities. This module will provide an introduction to the topic of causal inference with a focus on machine learning and AI based problems in business. In this module, students will conceptually learn how to apply causal inference for data and evidence driven decision making, at the intersection of data science and management strategy. Students will be exposed to various examples to apply concepts from causal analyses learnt in the module. The module will first introduce students to the world of causal inference, and cover standard tools that are used in empirical research, such as instrumental variables, regression discontinuity designs, difference-in-differences. The module will also include case studies that cover machine learning and AI based problems in business decisions. As the module will cover these topics conceptually, students do not need a particular background to take this class. However, some concepts such as conditional means, variances, hypothesis testing and regression will be covered at the beginning of the module. In-class lectures feature case studies and examples of causal inference research designs.
Literatur	

Modul M1831: Responsible Business: Sustainability, Compliance and Contol Issues (AAU)				
Lehrveranstaltungen				
Titel		Typ	SWS	LP
Verantwortungsvolles Wirtschaften: Nachhaltigkeit, Compliance und Kontrollfragen (AAU) (L3028)		Vorlesung	5	5
Modulverantwortlicher	NN			
Zulassungsvoraussetzungen	None			
Empfohlene Vorkenntnisse	none			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht			
Fachkompetenz <i>Wissen</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: - contextualizing, reviewing and justifying the role of (1) social responsibility; (2) compliance; (3) and management control in organizations that operate across the world. - synthesizing and exemplifying the similarities and differences in the way corporations deal with the tensions generated by the need for being competitive at all costs and the need for being sustainable. SKILLS The objective is that the student after the module possesses the necessary skills in: - selecting and applying appropriate management control techniques and evaluate the information challenges and opportunities they offer to organizations operating in a dynamic global context. - critically addressing global business responsibility issues through competent, context-specific communication skills. - applying appropriate theoretical concepts to situations and cases that characterize global businesses, and synthesize arguments for justifying or critiquing companies’ activities and regulations. COMPETENCES The objective is that the student after the module possesses the necessary competency in: - demonstrating an application of knowledge and different forms of reasoning to analyse issues currently being experienced by multinational companies with regard to issues related to (1) social responsibility; (2) compliance; (3) and management control. critically assessing the management control challenges faced by global corporations with regard to constructing and maintaining a reputation that can reflect responsible involvement with communities and attention to societal dynamics.			
<i>Fertigkeiten</i>				
Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>				
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70			
Leistungspunkte	5			
Studienleistung	Keine			
Prüfung	Schriftliche Ausarbeitung			
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University			
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht			

Lehrveranstaltung L3028: Responsible Business: Sustainability, Compliance and Control Issues (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The purpose of this module is to shed light on the social responsibility, compliance, and accountability-control issues that arise in a global business setting. The subject matter is treated as a key for developing critical insight into the world-wide regulatory challenges faced by corporations in implementing environment, social and climate change related reporting obligations, imposed both at the domestic and international level. The module takes the question regarding the practical relevance of three topics - social responsibility, compliance and management control/accountability - in the global context. Firstly, it traces the theories regarding the types and interpretations of corporate social responsibility (CSR), and it illustrates the numerous ways of making sense of it, according to the diverse assumptions about its nature and characteristics. It explores how a range of global emerging social, environmental and political issues impact corporate governance, risk management and strategy policies related to sustainability. Subsequently, it covers the development of the concept of social responsibility and how this is implemented by organizations, what its impact is, and potential future developments. Secondly, the module examines the legal and moral compliance issues and challenges related to these issues are faced by organizations operating in global business contexts. The regulations, standards, and guidance directives that address issues such as environmental compliance, competition, anti-bribery, social responsibility, UN sustainable development goals, ethical leadership and climate change transparency will be considered in this part of the module. Thirdly, the module examines the management control implications. It looks at the definition and interpretation of management control/accountability and at what constitutes the ethic of accountability. In doing so it examines the way social actors (and, to a certain extent, organizations), can situate themselves as members of an ongoing community that affects, and is affected by them. The implications drawing from the interdependence between actors, gatekeepers (such as governments, auditors and regulators), and communities (e.g. the implementation of evaluation criteria, management control mechanisms required to meet relevant regulatory requirements) will be addressed in this part of the module.
Literatur	

Modul M1832: Entrepreneurial Finance (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Unternehmerische Finanzen (AAU) (L3029)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: • how to conduct comprehensive evaluation of a new venture, valuation methods, the purpose and challenges of performing evaluation. • challenges of financing entrepreneurial growth companies and sources of financial resources. • understanding the financial aspects of entrepreneurship, the stages of a start-up development, exit strategies. SKILLS The objective is that the student after the module possesses the necessary skills in: • evaluating venture opportunities and navigating the funding process from the perspective of both an entrepreneur and venture capitalist. • conducting venture valuation in practice by applying IT tools and understanding the impact of risk and uncertainty on the choice of financing. • making informal financial decisions, strategic planning and structuring deals. COMPETENCES The objective is that the student after the module possesses the necessary competences in: • logical thinking, critical analysis, evaluating and interpreting situations and problems that stakeholders might confront in an entrepreneurial firm. • specific financial planning and financial decision-making needs of entrepreneurial ventures, including start up and development phase financial and management problems. applying financial models to appraise the value of a venture or better evaluate the market potential of an opportunity.		
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3029: Entrepreneurial Finance (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The module will guide students through the complete life cycle of a start-up venture from launch to exit. It specifies different stages that a new company may go through as it grows, and outlines financial challenges confronting entrepreneurial ventures along the way. Students will receive answers to key questions: how much money can and should be raised, what is the optimal timing of obtaining financing, what is a reasonable valuation of the venture, how and where to obtain financing, how funding should be structured and how to position a new venture strategically. Students will be introduced to knowledge, theories and corporate finance tools that will help to recognise venture value, measure and evaluate financial performance. This module is designed for students who have a basic understanding of finance and familiar with the concepts such as time value of money, basic valuation principles, basic risk and return trade-off fundamentals, basics of evaluation of investment alternatives. During the module students will be introduced to approaches to valuing new venture or start-up equity from a venture capital (VC) perspective, will learn about various types of investors (venture capital, business angels, private equity, early stage and traditional financing sources) and financing of high-risk, high-growth ventures, the optimal timing in terms of obtaining funding and when to go public, exit and turnaround strategies, and the impact of digitalisation on entrepreneurial finance market. The module is essential for those wishing to understand the financial aspects of entrepreneurship and interested in gaining a broader view of the financial landscape and deal structure for new ventures, and for those considering starting a company and raising capital.
Literatur	

Modul M1833: International Marketing (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Internationales Marketing (AAU) (L3030)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: - the basic concepts, principles, and practices of international marketing, i.e., marketing to customers in foreign markets. - the international marketing environment and the specific marketing challenges that occur in the international marketing context. SKILLS The objective is that the student after the module possesses the necessary skills in: - evaluating the attractiveness of international opportunities and choosing a market entry strategy. - designing the international marketing mix. - discussing the advantages and disadvantages of different entry mode strategies and providing recommendations about the most appropriate strategy. COMPETENCES The objective is that the student after the module possesses the necessary competences in: - analysing and evaluating a company's market opportunities in the global business environment. formulating strategies that help companies achieve their international marketing objectives.		
Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3030: International Marketing (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The importance of world trade has increased and international business growth offers increased opportunities for organisations. Many organisations are, therefore, now engaged in planning and conducting marketing activities across national borders. This module, introduces students to international marketing and the factors that create international marketing complexity. Also, to the major decisions in international marketing, including whether to go international, what foreign markets to enter, how to enter these markets, and how to design the international marketing mix.
Literatur	

Modul M1834: International Sales and Negotiations (AAU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Internationaler Vertrieb und Verhandlungsführung (AAU) (L3031)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: - negotiation theories for Business to Business. - international differences in negotiation practices. - creating different types of value with stakeholders when negotiating. SKILLS The objective is that the student after the module possesses the necessary skills in: - suggest appropriate negotiation strategies for specific contexts. - negotiating in practice. - selecting central and relevant methods for how to achieve different outcomes through negotiations. COMPETENCES The objective is that the student after the module possesses the necessary competences in: - analysing negotiation situations to suggest improvements. - manage and plan negotiation strategies for business. - applying theoretical and practical approaches of how to influence and persuade in different situations.		
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3031: International Sales and Negotiations (AAU)

Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	International sales and negotiations will introduce the students to business negotiation fundamentals and enable the students to understand different theories of negotiations for marketing and sales contexts. The ability to negotiate with customers and partners is essential to business, and understanding how to plan and execute a negotiation process is a key competency. This module will introduce negotiation techniques and strategies to plan and engage in negotiations as part of sales and marketing processes.
Literatur	

Modul M1835: Strategic Brand Management (AAU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Strategisches Markenmanagement (AAU) (L3032)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3032: Strategic Brand Management (AAU)

Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	Brands can be extremely valuable assets and a significant growth driver. This module will analyse how brands function as pivotal devices in today's society and the role of strategic brand management in customer value creation. During this module the student will acquire insights into how companies should manage brands to maximize brand equity. This includes knowledge about the different brand management decisions that must be made to build, measure, and manage a brand. Furthermore, the objective of this module is to provide the student with insights into central theories and approaches related to strategic brand management, including theories on how customers develop brand attitudes and behaviours.
Literatur	

Modul M1836: Global Environmental Dynamics and Firms Responses (AAU)				
Lehrveranstaltungen				
Titel		Typ	SWS	LP
Globale Umweltdynamik und die Reaktionen von Unternehmen (AAU) (L3033)		Vorlesung	5	5
Modulverantwortlicher	NN			
Zulassungsvoraussetzungen	None			
Empfohlene Vorkenntnisse	none			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht			
Fachkompetenz <i>Wissen</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: - theoretical views and concepts on the emerging dynamics of society and technological breakthroughs affecting market, management, and product innovation in international firms. - how firms respond to the emerging dynamics through various innovative responses and how those dynamics can be addressed in a particular company setting to ensure competitive competencies. SKILLS The objective is that the student after the module possesses the necessary skills in: - explaining and illustrating the core concepts associated with the understanding of emerging social, digital and technological dynamics affecting firm’s competitiveness. - defining, explaining and illustrating the relationships between different facets of emerging dynamics, their consequences on global market management, the innovative responses by firms, and the new technologies providing opportunities for competitive competencies. - using artificial intelligence and big data in strategy formulation in international business. COMPETENCES The objective is that the student after the module possesses the necessary competences in: - demonstrating the skills of identifying issues, challenges and possibilities associated with emerging social, digital and technological dynamics affecting competitive competencies and sustainability in global market. communicating effectively in oral and written forms about various emerging social, digital and technological dynamics and their impact on value creation, product and market innovation, and competitive advantage.			
<i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>				
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70			
Leistungspunkte	5			
Studienleistung	Keine			
Prüfung	Schriftliche Ausarbeitung			
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University			
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht			

Lehrveranstaltung L3033: Global Environmental Dynamics and Firms Responses (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The module will introduce students with an insight on emerging and global dynamics of society and technology and how those dynamics affect firm's international business operations and competitiveness. During this module, students will be introduced to theories and models explaining how and why firms can transform in the face of revolutionary changes in the global environment due to emerging dynamics and technological breakthroughs through innovative strategies and reinvented business model.
Literatur	

Modul M1837: Internationalisation in Emerging Product and Geographic Markets (AAU)				
Lehrveranstaltungen				
Titel	Internationalisierung in aufstrebenden Produkt- und geografischen Märkten (AAU) (L3034)	Typ	Vorlesung	SWS 5
Modulverantwortlicher	NN	LP	5	
Zulassungsvoraussetzungen	None			
Empfohlene Vorkenntnisse	none			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht			
Fachkompetenz <i>Wissen</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses knowledge about: • concepts and theories with reference to emerging product and geographic markets. • the role of design and technology in emerging product/service solutions. • cross-country differences in strategies across emerging markets, the effects of internationalization on emerging markets, as well as risks and opportunities in emerging markets and transitional economies SKILLS The objective is that the student after the module possesses skills in: • discussing and delineating practices in the internationalisation in emerging product and geographic markets. • analysing and synthesizing state-of-the- art knowledge on emerging markets. • pursuing further knowledge related to the module topics through own academic learning. COMPETENCES The objective is that the student after the module possesses abilities in: • applying and reflecting on the internationalisation in emerging product and geographic markets. • applying concepts and theories learnt to understand the challenges faced in emerging product and geographic markets. applying problem-based learning principles to identify problems and propose solutions to issues based on own understanding of the subject matter.			
Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>				
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70			
Leistungspunkte	5			
Studienleistung	Keine			
Prüfung	Schriftliche Ausarbeitung			
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University			
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht			

Lehrveranstaltung L3034: Internationalisation in Emerging Product and Geographic Markets (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The module explores the internationalisation in emerging product and geographic markets. International companies respond to external or internal opportunities and use their creative efforts to introduce new products and services. They, in turn, help capture and retain market share, increase profitability, and achieve competitive advantage in international markets. The module analyses the emergence of products and services, as well as servitization of solutions integrating design and technology. It also explores geographic emerging markets in Asia, Eastern Europe/Russia, Africa and Latin America. It brings cross-country differences in strategies across emerging markets, discusses the effects of internationalization on emerging markets and assesses risks and opportunities in emerging markets and transitional economies.
Literatur	

Modul M1838: Internationalisation of Diverse Organisational Forms (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Internationalisierung verschiedener Organisationsformen (AAU) (L3035)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses knowledge about: - newly emerging concepts and theories with reference to new organisational forms and their internationalisation. - approaches and strategies for the internationalisation of various type of organisational forms such as NGOs, platform companies, etc. - challenges in the internationalisation of diverse organisational forms. SKILLS The objective is that the student after the module possesses skills in: - discussing and delineating practices in the internationalisation of diverse organisational forms. - analysing and synthesizing state-of-the- art knowledge on internationalised diverse organisational forms. - pursuing further knowledge related to the module topics through own academic learning. COMPETENCES The objective is that the student after the module possesses abilities in: - applying and reflecting on the internationalisation of diverse organisational forms. - applying concepts and theories learnt to understand the challenges and practices to internationalising organisations. applying problem-based learning principles to identify problems and propose solutions to issues based on own understanding of the subject matter.		
Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3035: Internationalisation of Diverse Organisational Forms (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The module explores the internationalisation of various types of organisational forms such as NGOs, platform organisations, non-for-profit organisations, etc. These forms are not well researched in the International Business literature and offer new avenues for exploring the diversity in internationalisation. The module aims to address the phenomenon of such organisations, cover relevant theories, frameworks, and practices in understanding their internationalisation, their types and relations with established forms of multinational firms. The impact of such organisational forms on society, policy, technology, economy, commerce and the challenges in their international activities and legitimation will be discussed.
Literatur	

Modul M1839: Multinational Corporations and Innovation Ecosystems (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Multinationale Konzerne und Innovation in Ökosystemen (AAU) (L3036)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses knowledge about: - newly emerging concepts and theories in value creation and innovation such as innovation ecosystems, platforms, and digitalization. - MNCs' innovation management practices and strategies from the value co-creation and value capture perspectives. - how innovation in ecosystems facilitates sustainable development and MNCs' global competitiveness. SKILLS The objective is that the student after the module possesses skills in: - analysing and synthesizing state-of-art knowledge on MNCs' global innovation management. - gaining skills on network analysis with the support of digital tools. - developing own conceptualisation and explanation based on in-depth reflections on and MNCs' global innovation and value creation practices. COMPETENCES The objective is that the student after the module possesses abilities in: - applying digital tools and methods to facilitate the learning on MNCs' global innovation management and value creation. - applying concepts and theories learnt to understand MNCs' global innovation challenges and practices applying problem-based learning principles to identify problems and propose solutions to issues based on own understanding of the subject matter.		
Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Aalborg University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3036: Multinational Corporations and Innovation in Ecosystems (AAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	This module discusses the emerging trends of value creation such as from do it alone to value co-creation with global partners, establishing cross-border strategic alliances and networks for joint innovation, participating and orchestrating innovation ecosystem for sustainable development, etc. Students will develop knowledge and reflect on issues such as, but not limited to, MNCs' global innovation modes and strategies, business and innovation ecosystems, digital platforms, business ecosystem in emerging markets, and interplay between value co-creation and value capture for sustainable development. During this module, we will start with reflecting more conventional theories and value creation modes such as global value chain and network theory, then will progress to more contemporary theories and topics such as ecosystem theory, coopetition theory, and the impact of digitalization. The module adopts digital tools and employs various pedagogical methods including lecturing, group discussions, peer review and peer learning, games and experiments, simulation, etc.
Literatur	

Modul M1840: New Venture Creation / Corporate Entrepreneurship (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Gründung neuer Unternehmen / Corporate Entrepreneurship (AAU) (L3037)	Projektseminar	30	30
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: • verifying business ideas/problems and validating needs/pains from customers, including assessing potential market opportunities and validating assumptions regarding the target market. • understanding some of the key drivers that impact upon the successful creation and management of a new venture (in a separate entity or within an existing organisation). • appreciating the importance of business models, customer development and agile development in the process of new venture creation/corporate venturing. SKILLS The objective is that the student after the module possesses the necessary skills in: • generating new business ideas and validating these, including and assessing the resources required to pursue an opportunity. • critically assessing new business ideas based on evidence from the market and to prototype a Minimal Viable Product. • understanding and mastering various physical and digital tools for MVP/MVE prototyping hereunder visualization tools, presentation tools, landing page, platform, and video editing. • understanding the skills and resources needed to create an entrepreneurial organisation further apprehend different business model configurations and business model innovation routes in the entrepreneurial process. COMPETENCES The objective is that the student after the module possesses the necessary competences in: • creating business opportunities and further understanding how to acquiring necessary resources to pursue the identified business opportunity. • designing business models to match the identified business opportunity, evidence from the market (and the host company). pitching the business model of a new venture, the underlying validation process and its academic relevance.		
Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 480, Präsenzstudium 420		
Leistungspunkte	30		
Studienleistung	Keine		
Prüfung	Mündliche Prüfung		
Prüfungsdauer und -umfang	40 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3037: New Venture Creation / Corporate Entrepreneurship (AAU)	
Typ	Projektseminar
SWS	30
LP	30
Arbeitsaufwand in Stunden	Eigenstudium 480, Präsenzstudium 420
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The purpose of this module is to secure the student can combine theoretical and empirical perspective with a hands-on experience of the process of new venture creation. Either as a new venture or corporate venturing within existing organisations. The project must deal with the process of new venture creation (either as a new venture or corporate venturing within existing organisations) and empirical/theoretical problems in relation to this.
Literatur	

Modul M1841: Commodity Economics (AAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Warenwirtschaft (AAU) (L3038)	Projektseminar	30	30
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	none		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: - the extent to which markets are regulated politically and of trends in connection with the transformation of the global commodity markets. - the basic options for managing risk in the commodity market. - the economic and practical fundamentals that drive commodity economics on the market. Furthermore, be aware of the ethical challenges within commodity economics. SKILLS The objective is that the student after the module possesses the necessary skills in: - generating a theoretical and empirically informed decision basis on the background of various business models that analyse the value chain (from up- to downstream) in the commodity complex in order that financial and risk management of raw materials purchase/sale may be handled professionally. - identifying and describing (theoretically) a specific issue related to exposures (physical and/or financial) within commodity economics and explaining the basic financial risks (and opportunities for risk management) related to the company's actual exposure (consumption and/or production or possibly speculative perspectives in connection with risk taking) versus commodities. - analysing the problem area through theories of risk management and/or trading strategy/management (risk taking) and identify and describing the issue in the perspective of current business models as well as the opportunities for development of new business models based on financial management and risk/reward opportunities in the physical/financial markets. COMPETENCES The objective is that the student after the module possesses the necessary competences in: - identifying and verifying an example of commodity exposure. explaining an example of an exposure or a problem/an opportunity in the commodity market		
Personale Kompetenzen <i>Fertigkeiten</i> <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 480, Präsenzstudium 420		
Leistungspunkte	30		
Studienleistung	Keine		
Prüfung	Mündliche Prüfung		
Prüfungsdauer und -umfang	40 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Entrepreneurial Business Engineering (AAU): Wahlpflicht		

Lehrveranstaltung L3038: Commodity Economics (AAU)	
Typ	Projektseminar
SWS	30
LP	30
Arbeitsaufwand in Stunden	Eigenstudium 480, Präsenzstudium 420
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The objective of the module is to provide the student with theoretical and practical knowledge and abilities within financial control, trade and management of commodities as well as physical and financial exposures within the commodity market and, additionally, to relate to the ethics within the area. The student must develop abilities and skills to understand the market mechanisms in the commodity markets and handle the purchase and sale of commodities, theoretically and practically (simulated). The module is intended to provide the student with the strategic, financial and trading tools needed to handle both day-to-day management and risk management of commodities in practice. As part of this, the student will also get acquainted with the digital tools used to e.g. trade on the energy market, monitor fluctuation in the prices etc. in order to understand the technologies used in the domain, but also to inspire how these could be further developed and challenged.
Literatur	

Fachmodule der Vertiefung Global Design Management (UoS)

The Global Design Management specialisation taught during the second year of the GTIME programme in Glasgow focuses on enabling the systematic role of design in linking creativity to innovation throughout the product development process; from conceptualisation through production and delivery to the market place. The programme aims to develop graduates with management capability who can deploy well-coordinated global product development strategies, operations and projects towards innovation within contemporary industrial settings. Graduates will understand design in innovation as a rigorous engineering process through which innovation can be driven and realised in a competitive global economy, and as a human centred approach that can discover latent societal needs and problems and develop solutions that are sensitive to the needs of all stakeholders.

Different modules introduce the students to key concepts within complex innovative design processes and management approaches, management of globally distributed creative teams at partner universities and the Postgraduate Group Project places student teams to work with an industrial client on a real world solution to client's prioritised brief. Students may integrate and apply design, manufacturing and operations management knowledge and skills to an industry based product and process development project and further develop project management skills. The latter half of the second year at the University of Strathclyde is characterised by the Global Research Project as an individual research project for which the student develops a relevant study topic of interest then executes, documents and presents critical research findings.

These taught and project based modules are supplemented by 2 modules chosen by the students from an approved list of optional modules. These include human centred design, design aesthetics, design methods, sustainable design and remanufacturing, product costing and financial management, quality management and lean six sigma, technology and innovation management, systems thinking, supply chain management and enterprise resource planning.

Modul M1386: Global Design (UoS)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Global Design (UoS) (L1965)	Vorlesung	5	5
Modulverantwortlicher	Dr. Andrew Wodehouse		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz	<i>Wissen</i> - Demonstrate knowledge and understanding of the nature of distributed design. - Demonstrate knowledge and understanding of the management of distributed design projects. - Demonstrate knowledge and understanding of how technology can effectively support distributed design activity. <i>Fertigkeiten</i> - Explain the concepts of distributed design engineering. - Discuss how the benefits and issues related to distributed design compare to those of co-located design. - Describe management tools and techniques for successfully managing distributed design. - Apply these tools and techniques to carry out distributed design project work. - Show how these tools and techniques can overcome issues relating to distributed design. - Describe appropriate technology and how it can be used to support distributed design. - Apply the use of technology to successfully carry out distributed design project work. - Show how appropriate technology can be used to overcome issues relating to distributed design. Personale Kompetenzen <i>Sozialkompetenz</i> - Teamwork: virtually; collocated; synchronous and asynchronous <i>Selbstständigkeit</i> - Literature searching, gathering, analysis - Literature review - Presentation skills		
Arbeitsaufwand in Stunden			
Eigenstudium 80, Präsenzstudium 70			
Leistungspunkte			
5			
Studienleistung			
Keine			
Prüfung			
Fachtheoretisch-fachpraktische Arbeit			
Prüfungsdauer und -umfang	Prüfung abgelegt an der University of Strathclyde		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Global Design Management (UoS): Pflicht		

Lehrveranstaltung L1965: Global Design (UoS)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	Dr. Andrew Wodehouse
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1385: Design Management (UoS)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Design Management (UoS) (L1964)	Vorlesung	5	5
Modulverantwortlicher	Prof. Alex Duffy		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	1. Appreciate and understand the role of design within an organisation and the organisational structures required for effective design. 2. Appreciate the role of design models, approaches and methods. 3. Know a variety of aspects and the complexities of design development. 4. Appreciate the role of innovation in design and know how to measure design performance. Ability to articulate the impact of early product delivery with regards to quality, cost and market sales. Describe the different main organisational structures and their impact on the design activity. Articulation of the different types of design models, approaches and methods. Appreciation of the different strengths and weaknesses of models, approaches and methods. Able to describe multiple aspects of design development. Articulation of complexities in design development. Teamwork - Literature searching, gathering, analysis. - Problem synthesis. - Literature review writing. - Presentation skills.		
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der University of Strathclyde		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Global Design Management (UoS): Pflicht		

Lehrveranstaltung L1964: Design Management (UoS)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	Prof. Alex Duffy
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1387: Postgraduate Group Project (UoS)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Postgraduate Group Project (UoS) (L1966)	Projektseminar	20	20
Modulverantwortlicher	Dr. Anup Nair		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	Demonstrate knowledge and understanding of the various elements associated with the respective course disciplines.		
	Demonstrate knowledge and understanding of products and management practices in industry.		
	Demonstrate knowledge and ability in applying and using various analysis and modelling tools and techniques in product and process realisation.		
	Demonstrate project planning and management, data collection and analysis, presentation, consulting and team working skills.		
<i>Fertigkeiten</i>	Ability to describe and discuss course contents relevant to the particular project and the course theme.		
	Critically review and evaluate products and management practices of the particular company.		
	Critically review and evaluate analysis tools and modelling techniques.		
	Discuss and critically evaluate the implementation of analysis tools and modelling techniques.		
Personale Kompetenzen <i>Sozialkompetenz</i>	Teamwork, team leadership.		
<i>Selbstständigkeit</i>	Ability to plan, control and lead an industrial project from inception to completion.		
	Evidence of achieving deliverables which meet the client company requirements.		
	Ability to work responsibly as part of a project team.		
Arbeitsaufwand in Stunden	Eigenstudium 320, Präsenzstudium 280		
Leistungspunkte	20		
Studienleistung	Keine		
Prüfung	Fachtheoretisch-fachpraktische Arbeit		
Prüfungsdauer und -umfang	Prüfung abgelegt an der University of Strathclyde		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Global Design Management (UoS): Pflicht		

Lehrveranstaltung L1966: Postgraduate Group Project (UoS)

Typ	Projektseminar
SWS	20
LP	20
Arbeitsaufwand in Stunden	Eigenstudium 320, Präsenzstudium 280
Dozenten	Dr. Anup Nair
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Fachmodule der Vertiefung Opportunities and Challenges for Innovation Management in New Economic Powerhouses (MU)

Manipal University is synonymous with excellence in higher education. Over 28,000 students from 57 different nations live, learn and play in the sprawling university town. The university has pioneered in every sector, engineering, management, communication and humanities and management, with all its institutes being mapped on the national and international radar. The School of Management, established in 1999, has been shaping professionally competent, socially responsible and ethical management postgraduates. The School draws its strength from its team of dedicated and experienced faculty members. Many of them have industry experience and have commendable record in research and research publication.

The second year of the GTIME program offered by the School, attempts to explore the rapidly changing business landscape in India. It attempts to provide students with a platform to explore this rich developing economy and trace its journey as it emerges into a strong economic power house. The third semester would commence with a one-week cultural immersion program that will sensitize students to the rich cultural heritage of India. This cultural program will also be a birds-eye view of the business culture operational in India. The courses offered in the third semester will provide students with insights into the business models operational in India and changing contours of the business environment. A potent, powerful blend pedagogy consisting of lectures, discussions, on-site visits and case studies will be employed. The project undertaken by the students in the fourth semester will enable them to obtain a hands one experience in an organization where he/she will be able to relate the class room discussions practically.

Modul M1369: Business Modelling and System Dynamics (MU)				
Lehrveranstaltungen				
Titel		Typ	SWS	LP
Business Modelling and System Dynamics (MU) (L1948)		Vorlesung	5	5
Modulverantwortlicher		Prof. Lewlyn Rodrigues		
Zulassungsvoraussetzungen		None		
Empfohlene Vorkenntnisse		None		
Modulziele/ angestrebte Lernergebnisse		Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz Wissen Fertigkeiten Personale Kompetenzen Sozialkompetenz Selbstständigkeit		• Know the importance of system thinking in an organization. • Understand the importance of modelling and simulation of a dynamic system. • Appreciate the wide range of applications of System Dynamics • Understand the stages of modelling process. • Methods for validating a System Dynamics model. After completing this module, students will have skills in: • Identifying key parameters and its influence on the system for a specific problem. • Developing a System Dynamics model. • Interpretation of simulation results and policy formulation. After completing this module, students will have skills: • In predicting dynamic scenarios in business innovation. • Developing business models which will be helpful in predicting the success of innovation. • Applying a holistic view to business problems.		
Arbeitsaufwand in Stunden		Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte		5		
Studienleistung		Keine		
Prüfung		Klausur		
Prüfungsdauer und -umfang		Prüfung abgelegt an der Manipal University		
Zuordnung zu folgenden Curricula		Global Technology and Innovation Management & Entrepreneurship: Vertiefung Opportunities and Challenges for Innovation Management in New Economic Powerhouses (MU): Pflicht		

Lehrveranstaltung L1948: Business Modelling and System Dynamics (MU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	Prof. Lewlyn Rodrigues
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1372: Technology, Creativity and Innovation (MU)								
Lehrveranstaltungen								
Titel		Typ	SWS	LP				
Technology, Creativity and Innovation (MU) (L1951)		Vorlesung	5	5				
Modulverantwortlicher	Prof. Shiva Prasad							
Zulassungsvoraussetzungen	None							
Empfohlene Vorkenntnisse	None							
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht							
Fachkompetenz	Wissen - Types of creativity and innovation and its barriers. - Frameworks and strategies for building an ecosystem for creativity and innovation. - Managing creativity, innovation and technology. - Understand the basic frameworks for assessing the technology capabilities of a business. - Know the importance of facilitating the adoption of new technology. - Understand the importance of creativity, innovation & technology to gain competitive advantage. Fertigkeiten After completing this module, students will have skills in: - Developing framework and strategies for enabling a supportive environment for fostering creativity and innovation. - Assess and audit the technology capabilities of a business. - Analyse the problems related to creativity, innovation and technology management. Personale Kompetenzen Sozialkompetenz Teamwork and communication skills Selbstständigkeit After completing this module, students will have skills: - Identify the need for innovation and apply creative solutions for the technological development. - Assessing the feasibility of innovative ideas.							
Arbeitsaufwand in Stunden					Eigenstudium 80, Präsenzstudium 70			
Leistungspunkte					5			
Studienleistung					Keine			
Prüfung					Klausur			
Prüfungsdauer und -umfang	Prüfung abgelegt an der Manipal University							
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Opportunities and Challenges for Innovation Management in New Economic Powerhouses (MU): Pflicht							

Lehrveranstaltung L1951: Technology, Creativity and Innovation (MU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	Prof. Shiva Prasad
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1790: Communication Across Cultures (MU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Kommunikation über Kulturen hinweg (MU) (L2948)	Vorlesung	4	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	90 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Opportunities and Challenges for Innovation Management in New Economic Powerhouses (MU): Pflicht		

Lehrveranstaltung L2948: Communication Across Cultures (MU)

Typ	Vorlesung
SWS	4
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1791: Strategic Operations (MU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Strategische Vorhaben (MU) (L2949)	Vorlesung	4	5
Modulverantwortlicher	Prof. Cornelius Herstatt		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	90 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Opportunities and Challenges for Innovation Management in New Economic Powerhouses (MU): Pflicht		

Lehrveranstaltung L2949: Strategic Operations (MU)

Typ	Vorlesung
SWS	4
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1792: Organic Growth of Family-owned Business in India (MU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Organisches Wachstum von Familienunternehmen in Indien (MU) (L2950)	Vorlesung	4	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	90 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Opportunities and Challenges for Innovation Management in New Economic Powerhouses (MU): Pflicht		

Lehrveranstaltung L2950: Organic Growth of Familiy-owned Business in India (MU)	
Typ	Vorlesung
SWS	4
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1793: Understanding the Service Market in India (MU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Den Dienstleistungsmarkt in Indien verstehen (MU) (L2951)	Vorlesung	4	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	90 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Opportunities and Challenges for Innovation Management in New Economic Powerhouses (MU): Pflicht		

Lehrveranstaltung L2951: Understanding the Service Market in India (MU)

Typ	Vorlesung
SWS	4
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
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Fachmodule der Vertiefung Technology and Innovation Management in Japan (APU)

Ritsumeikan University uses the second year of the GTIME program to introduce the students to innovation processes and management approaches used in Japan. Since the global success of Japanese companies, practitioners and scholars around the world have shown an increased interest in and appreciation for Japanese management principles and innovative practices. Japanese companies have for a long time adapted Western ideas of quality and innovation to the Japanese context and introduced new and innovative innovation processes and management techniques. Japan is still a leading driver in the migration toward global operations, integrating design, sourcing, manufacturing and distribution of products and services globally.

The second year in Japan adds to the global character of the master in innovation and technology management. Considering the renowned innovation process of the industry in Japan and the unique innovation processes used in Japan, it is a clear advantage to have focused course- and seminar modules about Japanese product and process innovation conducted in Japan. The students who choose Ritsumeikan University in Japan as their second year destination gain invaluable insights into the Japanese approach to innovation and the international competitiveness that arises from it.

Modul M1355: Information Technology Management (APU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Information Technology Management (APU) (L1930)	Vorlesung	4	4
Modulverantwortlicher	Prof. Yukihiro Nakata		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	Subject-related knowledge and understanding: • The value of IT to organizations. • The role of information technology for product and process development and the value of innovations. • Recognize and analyze the information-communication systems/services nexus. • Understand the principles necessary to overcome the management challenges of integrating IT in innovation and employing it an organization. • Understanding how best practices can be implemented into the IT organization successfully.		
<i>Fertigkeiten</i>	Subject-related skills: After completing this module, students will have skills in: • Determining what is to be contained in an IT Strategic Plan. • Integrating IT into product and service concept development • Coping with challenges of IT integration in product development and an organization		
Personale Kompetenzen <i>Sozialkompetenz</i>	Key Qualifications: After completing this module, students will have skills: • Identify the role of information for the success of innovation and competitiveness • Integration of information management in all stages of product development • Master total information technology management (ITM) in R&D and business processes.		
<i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Pflicht		

Lehrveranstaltung L1930: Information Technology Management (APU)	
Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Yukihiko Nakata
Sprachen	EN
Zeitraum	WiSe
Inhalt	The aim of this course is to demonstrate and discuss the essential role of information technology for innovation and competitive advantage of a company. Innovations of the 21st century such as Apple's iPod - and the competitiveness advantage that results from it - are more and more based on information than on physical apparatus. Innovations are embedded in information networks and the value of a physical apparatus is based on how much information is processed or made available through the apparatus. In addition, information technologies are the core for management, manufacturing and service processes. In this sense Information Technology Management is important to accelerate innovations and strengthen competitiveness and, therefore, one of the key parts of Management of Technology (MOT), which is the management to lead R&D to business and add extra value. The course objective is to master "Total Information Technology Management (ITM)". This concepts generally aim at leading R&D and business processes to effectively utilize IT in order to strengthen competitiveness. The course is a complement to the courses "Strategy of Technology (SOT)" and "Management of Technological (MOT)". • Why "Information Technology Management"? • Paradigm Shift of IT Management ◦ IT in the 21st century ◦ Smartphone, Big data etc. • The Role of Information in innovation ◦ Case Study of iPod: Video Case Study ◦ "The iPod Revolution" • E-Business and E-Commerce ◦ E-business ◦ Online Shopping Video Case Study ◦ CEO exchange: Bezos of Amazon and Dyer of Land's End • Transaction Processing, Functional Application and Integration Managing Production • Emerging IT Management • Knowledge Management: ◦ Requirements for Digitalization ◦ IT systems for Knowledge Management • Enterprise System for Total Supply Chain Management ◦ Supply Chain Enterprise Resource ◦ Radio Frequency Identification (RFID) ◦ Case Study of JR-Suica Video Case Study "Project X; Challenger IC Card System of JR-Suica" • Build to Order ◦ Mass customization ◦ Video Case Study; CEO exchange: Dell of Dell and Smith of FedEx • Social Networking Service: Business Developing by IT
Literatur	• Turban, E., Volonino, L., Wood, G. R. (2005) Information Technology for Management: Digital Strategies for Insight, Action, and Sustainable Performance, John Wiley & Sons.

Modul M1356: Technology Management (APU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Technology Management (APU) (L1931)	Vorlesung	4	4
Modulverantwortlicher	Prof. Masanori Namba		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	Students will learn the basic concepts on innovation and the features of technology which enable them to understand the integrated and complex process of R&D, New Product Development, Business Operations, and the role and the effective use of Information Technology for overall management. - Skills in managing business and innovation processes - Managing a variety of technologies - Project management towards an innovative company strategy - Teamwork and communication skills - Intercultural management skills - Leadership - Analytical decision making		
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Pflicht		

Lehrveranstaltung L1931: Technology Management (APU)	
Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Masanori Namba
Sprachen	EN
Zeitraum	WiSe
Inhalt	- Part 1 Sources of Competitiveness: Linkage of R&D and Production - Class 1 R&D and Production activities as Information Processing - Class 2 Innovator's Dilemma and Case Study History of HDD - Class 3 Pitfalls in new product development & new business development, and Case Study (IBM) - Class 4 Management of emerging technology and Case Study (Path to new technology) - Part 2 Strategy for Creation of Core Competences - Class 5 Core Competences and their evolution, and Case Study (Intel) - Class 6 Market Creation: Ideation, Conceptualization and Business Model, Case Study (TiVo) - Class 7 Project Management for New Product Development (Stage Gates/ PACE method) - Class 8 New Business Development (Alliance/introduction to Self Development) - Part 3 Managing of Information Technology(IT) - Class 9 Information needs in an organization and role of IT - Class 10 Alternative ways to match the IT function to the structure and behavior of the organization - Class 11 Consideration of the ethical and organizational implication and effects of IT - Part 4 Competitiveness and Production Management - Class 12 Comparison of Mass Production Method & Lean System; Ford System and Toyota System - Class 13 Cost, Productivity and Learning Curve - Class 14 Supply Chain and Open Architecture - Class 15 Total Innovation Management
Literatur	- Leifer, Richard, McDermott, Christopher M., O'Connor, Gina Colarelli, Peters, Lois S. Rice, Mark P. Veryzer Robert W. (2000) Radical Innovation: How Mature Companies Can Outsmart Upstarts, Harvard Business School Press. - Day George S., Schoemaker, Paul J.H. with Robert E. Gunther (2005) Wharton on managing emerging technologies. - Porter Michael E. (1998) On Competition (Harvard Business Review Book Series), Harvard Business School Press - Clayton, M. Christensen (2003) The Innovator's Dilemma: The Revolutionary National Book That Will Change the Way You Do Business (Harperbusiness Essentials) Harperbusiness. - Clayton, M. Christensen, Raynor Michael E. (2005) The innovator's solution : creating and sustaining successful growth. - Tschirky, H., Jung () Technology and innovation management on the move : from managing technology to managing innovation-driven enterprises (Industrielle Organisation). - Simon, H. () Hidden champions of the twenty-first century : success strategies of unknown world market leaders, Springer.

Modul M1357: Japanese Corporations and Asia Pacific (APU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Japanese Corporations and Asia Pacific (APU) (L1932)	Vorlesung	4	4
Modulverantwortlicher	Prof. Kaoru Natsuda		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	Basic business knowledge.		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i>	The aim of this course is to provide knowledge of Japanese management systems and Japanese economy in relation to the Asia Pacific region. The contents of the course include Japanese domestic business and economic systems including human resource management, keiretsu, general trading companies, the role of the Japanese government in the economy, as well as the internationalization strategy (or regionalization) of Japanese corporations. We will particularly examine how Japanese multinational corporations have conducted foreign direct investment in the region in the historical perspective. In addition, the course requires the students' participation through a presentation: Investment Promotion - how to attract Japanese corporations into the country, which will be selected in the Asia Pacific region By the end of the module students will have learned: Completion of the course will assist students to establish a good working knowledge of Japanese business management, Japanese political economy as well as issues in the Asia Pacific. It will also assist students to develop research and presentation skills, which are required of anyone if they wish to put their analytical thinking capabilities into practice. Subject-related knowledge and understanding: • Knowledge of Japanese management such as life time employment system, seniority system, enterprise unions, kaizen. • Knowledge of Japanese political economy such as keiretsu system, developmental state concept, industrial policy. • Knowledge of Japanese foreign direct investment in the Asia since 1950s until recent years. Knowledge of the Asia Pacific economy and international relations in Asia.		
Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	Teamwork and communication skills - Management skills - Decision making - Presentation skills		
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Pflicht		

Lehrveranstaltung L1932: Japanese Corporations and Asia Pacific (APU)	
Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Kaoru Natsuda
Sprachen	EN
Zeitraum	WiSe
Inhalt	I. Competitive Advantages of Country Porter, Michael (1990) The Competitive Advantage of Nations, New York, The Free Press.(Chapter 3) World Economic Forum (2013) The Global Competitiveness Report 2013-2014, Geneva, World Economic Forum. II. Japanese Management Systems Abegglen, James (2006) 21st Century Japanese Management: New Systems, lasting value, New York, Palgrave Macmillan (chapter 4) Flath, David (2005)The Japanese Economy (2nd Edition), Oxford, Oxford University Press (Chapter 15) Itagaki, Hiroshi (2011) "The Japanese Management System and the Corporate Strategies of Japanese Companies" in Kawamura, T (ed.) Hybrid Factories in the United States, Oxford, Oxford University Press. III. Japanese Production Management Imai Masaaki (1997) Gemba Kaizen: a commonsense, low-cost approach to management, New York, MacGraw-Hill. (Chapter 1) Urata Shujiro (1999) "Intrafirm Technology Transfer by Japanese Multinationals in Asia", in Encarnation (ed.), Japanese Multinationals in Asia, Oxford, Oxford University Press. IV. Industrial Organisation in Japan (Keiretsu & Sogo Shosha) Flath, David (2005)The Japanese Economy (2nd Edition), Oxford, Oxford University Press (Chapter 12) Chen, Min (2004) Asian Management Systems (2nd edition), London, Thomson. (Chapter 12) V. Government-Business Relationship in Japan and the Asia Pacific Chen, Min (2004) Asian Management Systems (2nd edition), London, Thomson. (Chapter 11) Chiu, Stephen and Lui, Tai-lok (1998) " The Role of the State in Economic Development", in Thompson, G. (ed.) Economic Dynamism in the Asia-Pacific, London, Routledge. VI. Japanese Foreign Economic Policies and FDI in the Asia Pacific Natsuda, Kaoru (2008) "Japan's Foreign Economic Policies towards East Asia in the Post War Era", Asian Profile, vol. 36, no.5,pp.455-468 Farrell, Roger (2008) Japanese Investment in the World Economy, Cheltenham, Edward Elgar. VII. Japanese Production Networks in the Asia Pacific Hatch, Walter and Yamamura Kozo (1996) Asia in Japan's Embrace: Creating a Regional Production, Cambridge, Cambridge University Press. (Chapter 2) VIII. Investment Promotion Presentation VIII. Japanese Corporations and Future of the Asia Pacific
Literatur	- Abegglen, James (2006) 21st Century Japanese Management: New Systems, lasting value, New York, Palgrave Macmillan. - Chen, Min (2004) Asian Management Systems (2nd edition), London, Thomson. - Flath, David (2005)The Japanese Economy (2nd Edition), Oxford, Oxford University Press.

Modul M1359: National Innovation Systems (APU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
National Innovation Systems (APU) (L1935)	Vorlesung	4	4
Modulverantwortlicher	Prof. Behrooz Asgari		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	Subject-related knowledge and understanding: • Key concepts of national systems of innovation • The nation-specific determinants of innovation • The system-approach to the development of product and service innovations		
<i>Fertigkeiten</i>	After completing this module, students will have skills in: • language and concepts of national and regional determinants of innovation for product and service development • related product development issues to the national and regional		
Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	After completing this module, students will have skills: • familiarization with the system approach of innovation • ability of apply principles of national systems of innovation to decision problems of policy makers and public administrators		
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Pflicht		

Lehrveranstaltung L1935: National Innovation Systems (APU)

Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Behrooz Asgari
Sprachen	EN
Zeitraum	WiSe
Inhalt	• Why study National Innovation Systems? ◦ The Concept of National Innovation Systems ◦ National Structures and Policies framing innovations • Analytical Perspectives: What is Innovation? ◦ History and Development of the NIS Concept ◦ The system nature of innovation • Recent Trends in NIS Research • NIS and Innovation Policy • Examples of National Innovation Systems ◦ United States ◦ Japan ◦ Korea ◦ Malaysia
Literatur	No textbook , but a journal articles and book chapters

Modul M1361: Quality and Operations Management (APU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Quality and Operations Management (APU) (L1936)	Vorlesung	4	4
Modulverantwortlicher	Prof. Behrooz Asgari		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	• knowledge base for studies and work in the field of Quality and Operations Management • knowledge of the foundations of Quality and Operations Management • an introduction to tools and approaches useful in improving organisational processes and products • Understanding of Japanese-style quality management philosophy and processes		
<i>Fertigkeiten</i>	After completing this module, students will have skills in: • language, concepts, and tools to deal with quality and operations issues in order to gain competitive advantage through operations.		
Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	After completing this module, students will have skills: • familiarization with the problems and issues confronting operations managers • ability of apply principles and methods of an integrated quality and operations management.		
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Pflicht		

Lehrveranstaltung L1936: Quality and Operations Management (APU)	
Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Behrooz Asgari
Sprachen	EN
Zeitraum	WiSe
Inhalt	• Operations Strategy in a Global Environment ◦ Operations and Productivity ◦ Quality and Operations Management ◦ Lean Production • Decision-Making Tools • Forecasting • Managing Quality ◦ Design for Quality ◦ Improvement Processes ◦ Total Quality Management • Statistical Process Control • Process Strategy ◦ Process View. Inventory, Thruput, Flowtime ◦ Work flow management ◦ Bottleneck Analysis, Level vs. Chase plans ◦ Control charts and Just-in-time Processes • Capacity Planning ◦ Linear Programming: Objectives, Constraints ◦ Linear Programming Formulations • Location Strategies ◦ Transportation Models ◦ Layout Strategy
Literatur	• Russell, Roberta S., Taylor, Bernard W. (2014) Operations management, Wiley; 8th Edition International Student Version

Modul M1362: Major Seminar (APU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Major Seminar (APU) (L1939)	Seminar	6	6
Modulverantwortlicher	Prof. Rian Beise-Zee		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	Changing programme related topics.		
<i>Fertigkeiten</i>	Competence to be gained according to the different topics (projects in cooperation with Japanese firms).		
Personale Kompetenzen <i>Sozialkompetenz</i>	Teamwork and communication skills.		
<i>Selbstständigkeit</i>	Management and decision making skills.		
Arbeitsaufwand in Stunden	Eigenstudium 96, Präsenzstudium 84		
Leistungspunkte	6		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Pflicht		

Lehrveranstaltung L1939: Major Seminar (APU)	
Typ	Seminar
SWS	6
LP	6
Arbeitsaufwand in Stunden	Eigenstudium 96, Präsenzstudium 84
Dozenten	Prof. Rian Beise-Zee
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1363: Project Management (APU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Project Management (APU) (L1940)	Vorlesung	4	4
Modulverantwortlicher	Prof. Noboyuki Yamamura		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	Basic management subjects.		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz	• Practical knowledge and skills to structure manage and evaluate projects • Identify project risks • Apply methods for motivating teams and retaining focus • Knowledge project management that combines the 3K of kakusin (innovation), kaiatsu (development), and kaizen (improvement) • Identify project risks. • apply methods for motivating teams and retaining focus. • Use tools and techniques for planning and tracking a project. • the implementation of innovative project management techniques and processes. • adaptation of project management techniques to projects in developing countries including alternative planning strategies for conditions of uncertainty and organizational factors in policies, gaining acceptance, assuring implementation, and coping with unanticipated consequences.		
Wissen			
Fertigkeiten			
Personale Kompetenzen			
Sozialkompetenz			
	- Intercultural management skills specific to Japan and Asia		
Selbstständigkeit	- Leadership and decision making skills.		
	- Project management skills.		
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Wahlpflicht		

Lehrveranstaltung L1940: Project Management (APU)	
Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Noboyuki Yamamura
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1366: Management in Asia and Japan (APU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Management in Asia and Japan (APU) (L1945)	Vorlesung	4	4
Modulverantwortlicher	Prof. Ali Haidar		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	Basic management subjects.		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> • Learn ways of sustaining economic growth that Asian countries are currently experiencing • Develop successful management career in Asia • Balance the needs of the society and the objectives of corporations <i>Fertigkeiten</i> Develop oral and written communication skills. Personale Kompetenzen <i>Sozialkompetenz</i> • Be culturally sensitive • Teamwork • International communication skills <i>Selbstständigkeit</i> - Management skills - Leadership			
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Wahlpflicht		

Lehrveranstaltung L1945: Management in Asia and Japan (APU)

Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Ali Haidar
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1368: Management of Japanese Family Businesses (APU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Management of Japanese Family Businesses (APU) (L1947)	Vorlesung	4	4
Modulverantwortlicher	Prof. Kenji Yokoyama		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	Basic management subjects.		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	• Five Models of family business • Issues, such as succession, innovation, relationship with community and longevity • How Japanese family business is different from those of other countries • The secret of the success of Japanese Family business • What are important for successful family business		
Personale Kompetenzen <i>Fertigkeiten</i>	The students will learn management and leadership skills specific to small and medium size family businesses in Japan. This incorporates general communication and project management skills as well as intercultural skills for the Japanese region.		
<i>Sozialkompetenz</i>	- Teamwork and communication skills. - Project management skills.		
<i>Selbstständigkeit</i>	Leadership and decision making skills		
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Wahlpflicht		

Lehrveranstaltung L1947: Management of Japanese Family Businesses (APU)

Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Kenji Yokoyama
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1367: Supply Chain Management (APU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Supply Chain Management (APU) (L1946)	Vorlesung	4	4
Modulverantwortlicher	Prof. Rian Beise-Zee		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	Basic management subjects.		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i>	• How the supply chain is designed using fundamental principles • How to achieve balance and efficiency by focusing on Variety: of offerings based on operational efficiency and market demand, Velocity through all processes of the supply chain and Manage inconsistencies carefully to reduce cost and improve quality and transparency to enable continuous learning and improvement • How to improve production and operations in a variety of industries, including manufacturing, banking, health care and retailing		
<i>Fertigkeiten</i>	- Skills to design a supply chain - Skills to improve a supply chain using continuous improvement approaches		
Personale Kompetenzen <i>Sozialkompetenz</i>	Teamwork and communication skills.		
<i>Selbstständigkeit</i>	- Project management skills - Analytical decision making skills		
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Wahlpflicht		

Lehrveranstaltung L1946: Supply Chain Management (APU)	
Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Rian Beise-Zee
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1364: Japanese I (APU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Japanese I (APU) (L1943)	Vorlesung	4	4
Modulverantwortlicher	Prof. Rian Beise-Zee		
Zulassungsvoraussetzungen	Keine		
Empfohlene Vorkenntnisse	None		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz	By the end of the module students will have learned: - To speak and familiarize themselves with Japanese as a foreign language - The students will be able to identify the basic sounds, words and expressions of the Japanese language. They will be able to say or express basic ideas, sentences, and desires in simple sentences. They will learn to write the Japanese script and learn enough vocabulary to continue with the Basic 2 level course. Students will gain basic communication skills in the Japanese language. Communication skills. The course will help students orienting themselves in every day life in Japan through a better understanding of language and culture.		
Wissen			
Fertigkeiten			
Personale Kompetenzen			
Sozialkompetenz			
Selbstständigkeit	The course will help students orienting themselves in every day life in Japan through a better understanding of language and culture.		
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56		
Leistungspunkte	4		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Ritsumeikan Asia Pacific University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology and Innovation Management in Japan (APU): Wahlpflicht		

Lehrveranstaltung L1943: Japanese I (APU)	
Typ	Vorlesung
SWS	4
LP	4
Arbeitsaufwand in Stunden	Eigenstudium 64, Präsenzstudium 56
Dozenten	Prof. Rian Beise-Zee
Sprachen	
Zeitraum	WiSe
Inhalt	
Literatur	

Fachmodule der Vertiefung Technology Venturing (KTU)

Kaunas University of Technology (KTU) in Lithuania specialises in Technology Venturing during the second year of the GTIME program. Students will gain a broad understanding of the technology venturing process within different size projects and different industrial contexts. All studied topics are pulled together to develop 'right to win' business strategies that are sustainable and differentiated.

The modules at KTU are structured around the following topics: How to initiate technology venturing and develop business model for technology driven business? How to build a successful team for venturing and create a successful start-up? What are the differences between an idea and true opportunity and how to search for promising business opportunities? How to gather the resources necessary to create a great company and leverage venture capital? How to pitch business ideas to investors and manage stakeholder relations? How to assess business value and monitor business growth? What is entrepreneurial leadership in a large company? How to take advantage of doing business within the networks? How to manage corporate intellectual property in order stay competitive in the market? How can organizations fully exploit their potential and capture maximum value for growth and success?

The second-year modules in Kaunas are designed and executed by top academic researchers, and therefore are strongly research oriented. By introducing students to the state-of-the-art in academic research, the aim is to give them necessary tools to properly understand, evaluate and solve real-life cases, and to successfully conduct their final master degree project research.

The problem-based study approach adopted at KTU is intended to disclose a full variety of the problems related to technology venturing that arise in a wide range of different contexts, including: manufacturing, services, small to large organizations and the private and public sectors.

Modul M1786: Strategic Management (KTU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Strategisches Management (KTU) (L2944)	Vorlesung	4	10
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 244, Präsenzstudium 56		
Leistungspunkte	10		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	90 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology Venturing (KTU): Pflicht		

Lehrveranstaltung L2944: Strategic Management (KTU)	
Typ	Vorlesung
SWS	4
LP	10
Arbeitsaufwand in Stunden	Eigenstudium 244, Präsenzstudium 56
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1787: Data Analysis Methods (KTU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Methoden der Datenanalyse (KTU) (L2945)	Vorlesung	4	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	90 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology Venturing (KTU): Pflicht		

Lehrveranstaltung L2945: Data Analysis Methods (KTU)	
Typ	Vorlesung
SWS	4
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1788: Reserach Project (KTU)

Lehrveranstaltungen

Titel	Typ	SWS	LP
Forschungsprojekt (KTU) (L2946)	Projektseminar	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	ca. 10 Seiten schriftliche Ausarbeitung und mündliche Präsentation		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology Venturing (KTU): Pflicht		

Lehrveranstaltung L2946: Research Project (KTU)

Typ	Projektseminar
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1789: Communication and Negotiation (KTU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Kommunikation und Verhandlungsführung (KTU) (L2947)	Vorlesung	4	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	90 min		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology Venturing (KTU): Pflicht		

Lehrveranstaltung L2947: Communication and Negotiation (KTU)	
Typ	Vorlesung
SWS	4
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 94, Präsenzstudium 56
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	
Literatur	

Modul M1376: Business Models Innovation (KTU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Business Models Innovation (KTU) (L1955)	Vorlesung	5	5
Modulverantwortlicher	Prof. Giedrius Jucevičius		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse	General management theory (non-mandatory)		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz	<i>Wissen</i> 1. Knows the concepts of value innovation and business model innovation, understands their theoretical structure and is capable of making the projections of new value creation 2. Knows the theoretical alternatives of new value creation and is capable of applying the methods of rethinking the boundaries of markets and industries 3. Knows the main patterns of business models and is capable of linking them with the new value propositions 4. Is capable of identifying the opportunities of new business models and new value propositions in the contemporary business environment 5. Knows the recent trends of consumption in the contemporary markets and is capable of integrating them into the construction of new value propositions 6. Understands the challenges underlying the practical implementation of value innovation and is capable of meeting them successfully in the organizational practice 7. Knows the key theories and practices in change management, related to value innovation, and is capable of applying them successfully in organizational activities 8. Is capable of testing the prototypes of new value propositions in the market and interpreting the obtained data <i>Fertigkeiten</i> 1. Able to identify new business possibilities through profound and entrepreneurial evaluation of economic, social, and other changes 2. Capable of creating innovative business models, processes of innovation implementation, and business intelligence systems. 3. Able to think sistemically, critically, and creatively; capable of communicating and presenting the acquired knowledge.		
Personale Kompetenzen			
<i>Sozialkompetenz</i>			
<i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Klausur		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Kaunas Technical University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Technology Venturing (KTU): Pflicht		

Lehrveranstaltung L1955: Business Models Innovation (KTU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	Prof. Giedrius Jucevičius
Sprachen	EN
Zeitraum	SoSe
Inhalt	• New competition arena: disruptive changes in technology and business ◦ Variety of innovations ◦ Disruptive innovations: markets and technologies ◦ Towards value- and business model innovation • Redefinition of market boundaries ◦ What is my business? ◦ Value innovation, "blue ocean strategy", "white space" and other concepts ◦ Changes in value chains and evolving profit patterns • Business model innovation ◦ Business model as dominant business logic ◦ Business model canvas ◦ Innovative business model in different industrial contexts • Putting new value architecture into practice ◦ Prototyping ◦ Testing ◦ Lean business model canvas • Managing organizational change to support value innovation ◦ Key concepts in change management ◦ Overcoming the barriers to implementing value innovation
Literatur	Osterwalder, A., Pigneur, Y. (2010). Business Model Generation. London: John Wiley Press. Kim, W.Ch., Mauborgne, R. (2005). Blue Ocean Strategy. Harvard Business School Press. Anthony, Scott D., (2008). "The innovator's guide to growth. : putting disruptive innovation to work". Johnson, Mark W. (2010). Seizing the white space. Boston: Harvard Business Press. Blank, S., Dorf, B. (2012). The Startup Owner's Manual: The Step-By-Step Guide for Building a Great Company Ries, E. (2011). The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses.

Fachmodule der Vertiefung Wertorientierte Technologie Geschäftsentwicklung (TAU)

An der TAU haben die Studierenden die Möglichkeit, sich auf **Value-Driven Technology Business Development** zu spezialisieren. Das Lehrangebot dieser Spezialisierung integriert Technologiemanagement, Vertriebs- und Finanzmanagement sowie Wertschöpfung und Kommunikation und ergänzt die Lerninhalte des ersten Jahres des GTIME-Studiums.

Die an der TAU angebotenen Kurse haben Wertschöpfung, Wertquantifizierung, Wertkommunikation und Werterfassung als gemeinsame Faktoren. Sie werden ein solides Verständnis dafür vermitteln, wie Organisationen in verschiedenen Kontexten erfolgreich Werte schaffen, quantifizieren, kommunizieren und erfassen und wie man dieses Wissen in verschiedenen organisatorischen Kontexten kreativ anwendet.

Modul M1815: Analysing and Communicating Value (TAU)

Lehrveranstaltungen			
Titel	Typ	SWS	LP
Analyse und Kommunikation von Werten (TAU) (L3012)	Vorlesung	10	10
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 160, Präsenzstudium 140		
Leistungspunkte	10		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Tampere University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Wertorientierte Technologie Geschäftsentwicklung (TAU): Pflicht		

Lehrveranstaltung L3012: Analysing and Communicating Value (TAU)

Typ	Vorlesung
SWS	10
LP	10
Arbeitsaufwand in Stunden	Eigenstudium 160, Präsenzstudium 140
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	After this course, students should have a good starting point for working on their Master's Thesis rather independently - in terms of (1) understanding of different empirical data gathering methods, (2) conceptual thinking and (3) empirical research work and its documentation as well as (4) the structure, content and narrative of a thesis. Different managerial concepts, in the end, are tools for both researchers and managers alike to develop their thinking and understanding on complex issues. Students can solve managerial problems in different organizations with the help of the existing literature and are able to reflect the reality using the existing literature and concepts. The student understands how the active work in the field, in the spirit of interventionist research, can be a way to (1) get access to the organization, (2) become a team member, hence (3) providing access to more interesting research data. Naturally, each student will gain expertise in the content area of the paper. The following shows the learning objectives connected to grading: After completing this course (Final Grade 1), a student has some idea about the expectations Finnish work environment sets on young business development professionals. The company project is executed with minimal effort and brings no real value to the company. Nevertheless, the student understands the basic idea of constructing the objective and the narrative for an empirical research paper describing the research project and its key findings. The student is able to acquire, evaluate, compare and select information using research literature (and also understand the difference between peer-reviewed material and other sources) related to their empirical project work and research objective as well as provide a summary of the concepts applied in the case. After completing the course (Final Grade 2), a student knows how to push forward her/his own work, either in the case or writing (though the project management and action plans still mainly rely on the assistant/teacher). The student is able to construct a simple theoretical framework and apply the framework in an empirical project and resulting research paper. In addition, the student invests some effort in developing the company projects, although the results are not yet meaningful. The student writes simple yet understandable English and the paper has an identifiable narrative fulfilling the defined research objectives. The student is also aware of the data gathering methods used in qualitative management research and knows how to document the data gathering process. Similarly, the student is able to follow given instructions to push forward simple development tasks. After completing the course (Final Grade 3), the student is able to execute an empirical research project with the help of a supervisor; the student is able to actively seek help when needed and also follow the given instructions (with positive attitude),

adding value on top of the advice given. The student is able to build a narrative for a research report with the help of the supervisor and apply the key theoretical concepts appropriately. The company project proceeds well and produces value to the company. The student is able to write simple yet rather flawless English following formatting instructions and reference practices as well as apply the basic tools needed for good cohesion. The student is able to link some empirical findings back to the research literature and the findings are visually connected to the framework built, hence complementing the framework deduced from the theory.

After completing the course (Final Grade 4), the student is able to manage her/his projects independently, seeking advice with good, well-structured questions when needed (with the course material and other evident sources consulted first). The student understands how the active, independent work with the case company makes the managers communicate actively with the student who is now clearly in the driver seat of the project. The student can identify development needs and structure the problem with a conceptual, visual representation as well as propose several potential solutions. The student has developed a habit to report systematically to the supervisors to keep them interested regarding the theoretical work going on. The student knows how to document the theoretical work in a way that feels natural and comfortable to her/himself. The student invests a good amount of effort into the company project, which results in some meaningful findings. The student understands how research interventions are used to 'tease out' theoretically-interesting questions/results with potential for a theory contribution and how to apply that knowledge when building an empirical research setting. The student is also to write professional English with a well-considered narrative, good cohesion, elegant formatting and smart referencing, including almost ready-for-press quality illustrations/visuals.

After completing the course (Final Grade 5), the student is able to execute an empirical research process independently and identify interesting theory contributions on her/his own, though the final argumentation and final visual representations may still need some advice from the supervisors. The student is able to keep both supervisors and company stakeholders interested in the work by good, systematic reporting, engaging the supervisors in the process in a positive way - even when the student needs help, the requests are well structured and the questions show the in-depth understanding of the context as well as the relevant literature. The student knows how to document the interventionist research process and how to show the chain of evidence regarding how the empirical case produced the key findings and the role the intervention played in the process. The student is able to identify findings with theory contribution and position them in the existing literature as well as argue the contribution potential. The student invests a lot of time and effort into the company project, proven by the amount of produced value. The student is able to write academic English in terms of narrative, cohesion, formatting and referencing plus the visuals.

After this course, students should have a good starting point for working on their Master's Thesis rather independently - in terms of (1) understanding of different empirical data gathering methods, (2) conceptual thinking and (3) empirical research work and its documentation as well as (4) the structure, content and narrative of a thesis. Different managerial concepts, in the end, are tools for both researchers and managers alike to develop their thinking and understanding on complex issues. Students can solve managerial problems in different organizations with the help of the existing literature and are able to reflect the reality using the existing literature and concepts. The student understands how the active work in the field, in the spirit of interventionist research, can be a way to (1) get access to the organization, (2) become a team member, hence (3) providing access to more interesting research data. Naturally, each student will gain expertise in the content area of the paper.

The following shows the learning objectives connected to grading:

After completing this course (Final Grade 1), a student has some idea about the expectations Finnish work environment sets on young business development professionals. The company project is executed with minimal effort and brings no real value to the company. Nevertheless, the student understands the basic idea of constructing the objective and the narrative for an empirical research paper describing the research project and its key findings. The student is able to acquire, evaluate, compare and select information using research literature (and also understand the difference between peer-reviewed material and other sources) related to their empirical project work and research objective as well as provide a summary of the concepts applied in the case.

After completing the course (Final Grade 2), a student knows how to push forward her/his own work, either in the case or writing (though the project management and action plans still mainly rely on the assistant/teacher). The student is able to construct a simple theoretical framework and apply the framework in an empirical project and resulting research paper. In addition, the student invests some effort in developing the company projects, although the results are not yet meaningful. The student writes simple yet understandable English and the paper has an identifiable narrative fulfilling the defined research objectives. The student is also aware of the data gathering methods used in qualitative management research and knows how to document the data gathering process. Similarly, the student is able to follow given instructions to push forward simple development tasks.

After completing the course (Final Grade 3), the student is able to execute an empirical research project with the help of a supervisor; the student is able to actively seek help when needed and also follow the given instructions (with positive attitude), adding value on top of the advice given. The student is able to build a narrative for a research report with the help of the supervisor and apply the key theoretical concepts appropriately. The company project proceeds well and produces value to the company. The student is able to write simple yet rather flawless English following formatting instructions and reference practices as well as apply the basic tools needed for good cohesion. The student is able to link some empirical findings back to the research literature and the findings are visually connected to the framework built, hence complementing the framework deduced from the theory.

After completing the course (Final Grade 4), the student is able to manage her/his projects independently, seeking advice with good, well-structured questions when needed (with the course material and other evident sources consulted first). The student understands how the active, independent work with the case company makes the managers communicate actively with the student who is now clearly in the driver seat of the project. The student can identify development needs and structure the problem with a conceptual, visual representation as well as propose several potential solutions. The student has developed a habit to report systematically to the supervisors to keep them interested regarding the theoretical work going on. The student knows how to document the theoretical work in a way that feels natural and comfortable to her/himself. The student invests a good amount of effort into the company project, which results in some meaningful findings. The student understands how research interventions are used to 'tease out' theoretically-interesting questions/results with potential for a theory contribution and how to apply that

	knowledge when building an empirical research setting. The student is also to write professional English with a well-considered narrative, good cohesion, elegant formatting and smart referencing, including almost ready-for-press quality illustrations/visuals. After completing the course (Final Grade 5), the student is able to execute an empirical research process independently and identify interesting theory contributions on her/his own, though the final argumentation and final visual representations may still need some advice from the supervisors. The student is able to keep both supervisors and company stakeholders interested in the work by good, systematic reporting, engaging the supervisors in the process in a positive way - even when the student needs help, the requests are well structured and the questions show the in-depth understanding of the context as well as the relevant literature. The student knows how to document the interventionist research process and how to show the chain of evidence regarding how the empirical case produced the key findings and the role the intervention played in the process. The student is able to identify findings with theory contribution and position them in the existing literature as well as argue the contribution potential. The student invests a lot of time and effort into the company project, proven by the amount of produced value. The student is able to write academic English in terms of narrative, cohesion, formatting and referencing plus the visuals.
Literatur	Nach Abschluss des Kurses (Abschlussnote 5) ist der/die Studierende in der Lage, selbständig einen empirischen Forschungsprozess durchzuführen und interessante Theoriebeiträge zu identifizieren, auch wenn die abschließende Argumentation und die abschließenden visuellen Darstellungen noch einiger Beratung durch die Betreuer bedürfen. Die/der Studierende ist in der Lage, sowohl die BetreuerInnen als auch die Stakeholder des Unternehmens durch eine gute, systematische Berichterstattung für die Arbeit zu interessieren und die BetreuerInnen auf positive Weise in den Prozess einzubinden - selbst wenn die/der Studierende Hilfe benötigt, sind die Anfragen gut strukturiert und die Fragen zeigen ein tiefgehendes Verständnis des Kontexts sowie der relevanten Literatur. Der/die Studierende weiß, wie er/sie den interventionistischen Forschungsprozess dokumentiert und wie er/sie die Beweiskette aufzeigt, wie der empirische Fall zu den Schlüsselergebnissen führte und welche Rolle die Intervention in diesem Prozess spielte. Der/die Studierende ist in der Lage, Ergebnisse mit Theoriebeitrag zu identifizieren und in der bestehenden Literatur zu positionieren sowie das Beitragspotenzial zu argumentieren. Der/die Studierende investiert viel Zeit und Mühe in das Unternehmensprojekt, was durch den Umfang des produzierten Werts belegt wird. Der/die Studierende ist in der Lage, akademisches Englisch in Bezug auf Erzählung, Kohäsion, Formatierung und Referenzierung sowie visuelle Darstellungen zu schreiben. Nach diesem Kurs sollten die Studierenden eine gute Ausgangsbasis haben, um ihre Masterarbeit relativ selbstständig zu bearbeiten - in Bezug auf (1) das Verständnis verschiedener Methoden der empirischen Datenerhebung, (2) konzeptionelles Denken und (3) empirische Forschungsarbeit und deren Dokumentation sowie (4) die Struktur, den Inhalt und die Erzählweise einer Arbeit. Die verschiedenen Managementkonzepte sind letztlich Werkzeuge für Forscher und Manager gleichermaßen, um ihr Denken und ihr Verständnis für komplexe Probleme zu entwickeln. Die Studierenden können Managementprobleme in verschiedenen Organisationen mit Hilfe der vorhandenen Literatur lösen und sind in der Lage, die Realität anhand der vorhandenen Literatur und Konzepte zu reflektieren. Der Student versteht, wie die aktive Arbeit vor Ort im Sinne der interventionistischen Forschung ein Weg sein kann, (1) Zugang zur Organisation zu erhalten, (2) ein Teammitglied zu werden und damit (3) Zugang zu interessanteren Forschungsdaten zu erhalten. Natürlich erwirbt jeder Student Fachwissen über den Inhaltsbereich der Arbeit. Im Folgenden werden die mit der Benotung verbundenen Lernziele dargestellt: Nach Abschluss dieses Kurses (Abschlussnote 1) hat der Student eine Vorstellung von den Erwartungen, die das finnische Arbeitsumfeld an junge Fachleute im Bereich der Unternehmensentwicklung stellt. Das Unternehmensprojekt wird mit minimalem Aufwand durchgeführt und bringt keinen wirklichen Wert für das Unternehmen. Nichtsdestotrotz versteht der Schüler die Grundidee, die Zielsetzung und den Bericht für eine empirische Forschungsarbeit zu formulieren, die das Forschungsprojekt und seine wichtigsten Ergebnisse beschreibt. Der Student ist in der Lage, Informationen aus der Forschungsliteratur zu beschaffen, zu bewerten, zu vergleichen und auszuwählen (und auch den Unterschied zwischen begutachtetem Material und anderen Quellen zu verstehen), die sich auf seine empirische Projektarbeit und sein Forschungsziel beziehen, sowie eine Zusammenfassung der im Fall angewandten Konzepte zu erstellen. Nach Beendigung des Kurses (Abschlussnote 2) weiß ein/e Schüler/in, wie er/sie seine/ihre eigene Arbeit vorantreiben kann, entweder im Fall oder schriftlich (obwohl das Projektmanagement und die Aktionspläne immer noch hauptsächlich vom Assistenten/Lehrer abhängen). Der/die Studierende ist in der Lage, einen einfachen theoretischen Rahmen zu konstruieren und diesen in einem empirischen Projekt und einer daraus resultierenden Forschungsarbeit anzuwenden. Darüber hinaus investiert der Studierende einige Anstrengungen in die Entwicklung von Unternehmensprojekten, obwohl die Ergebnisse noch nicht aussagekräftig sind. Der Student schreibt in einfachem, aber verständlichem Englisch und die Arbeit hat eine erkennbare Erzählung, die die definierten Forschungsziele erfüllt. Der Studierende kennt die Methoden der Datenerhebung in der qualitativen Managementforschung und weiß, wie man den Datenerhebungsprozess dokumentiert. Ebenso ist der Studierende in der Lage, vorgegebene Anweisungen zu befolgen, um einfache Entwicklungsaufgaben voranzutreiben. Nach Abschluss des Kurses (Abschlussnote 3) ist der Studierende in der Lage, ein empirisches Forschungsprojekt mit Hilfe eines Betreuers durchzuführen; er ist in der Lage, bei Bedarf aktiv um Hilfe zu bitten und die gegebenen Anweisungen (mit positiver Einstellung) zu befolgen und den gegebenen Ratschlägen einen Mehrwert hinzuzufügen. Der Studierende ist in der Lage, mit Hilfe des Betreuers eine Darstellung für einen Forschungsbericht zu erstellen und die wichtigsten theoretischen Konzepte angemessen anzuwenden. Das Unternehmensprojekt kommt gut voran und bringt dem Unternehmen einen Mehrwert. Der/die Studierende ist in der Lage, einfache, aber ziemlich fehlerfreie englische Texte zu verfassen, indem er/sie die Formatierungsanweisungen und Referenzpraktiken befolgt und die grundlegenden Werkzeuge anwendet, die für eine gute Kohäsion erforderlich sind. Der Student ist in der Lage, einige empirische Ergebnisse mit der Forschungsliteratur zu verknüpfen, und die Ergebnisse sind visuell mit dem erstellten Rahmen verbunden, wodurch der aus der Theorie abgeleitete Rahmen ergänzt wird. Nach Abschluss des Kurses (Abschlussnote 4) ist der/die Studierende in der Lage, seine/ihre Projekte selbstständig zu verwalten und bei Bedarf mit guten, gut strukturierten Fragen Rat zu suchen (wobei das Kursmaterial und andere offensichtliche Quellen zuerst konsultiert werden). Der/die Studierende versteht, wie die aktive, selbständige Arbeit mit dem Fallunternehmen die Manager dazu bringt, aktiv mit dem/der Studierenden zu kommunizieren, der/die nun eindeutig auf dem Fahrersitz des Projekts sitzt. Der Student kann den Entwicklungsbedarf identifizieren und das Problem mit einer konzeptionellen, visuellen Darstellung strukturieren sowie mehrere potenzielle Lösungen vorschlagen. Der Student hat sich angewöhnt, seinen Vorgesetzten

	systematisch Bericht zu erstatten, um deren Interesse an der theoretischen Arbeit aufrechtzuerhalten. Der/die Studierende weiß, wie er/sie die theoretische Arbeit in einer Weise dokumentiert, die ihm/ihr natürlich und angenehm erscheint. Der Student/die Studentin investiert ein gutes Maß an Anstrengung in das Unternehmensprojekt, was zu einigen aussagekräftigen Ergebnissen führt. Die/der Studierende versteht, wie Forschungsinterventionen eingesetzt werden, um theoretisch interessante Fragen/Ergebnisse mit Potenzial für einen Theoriebeitrag herauszuarbeiten, und wie man dieses Wissen beim Aufbau eines empirischen Forschungssettings anwendet. Der Student soll auch einen professionellen englischen Text mit einer gut durchdachten Erzählung, gutem Zusammenhalt, eleganter Formatierung und intelligenter Referenzierung schreiben, einschließlich fast druckreifer Illustrationen/Visualisierungen.
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Modul M1816: Managerial Finance for Sales and Sourcing (TAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Finanzmanagement für Vertrieb und Beschaffung (TAU) (L3013)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Tampere University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Wertorientierte Technologie Geschäftsentwicklung (TAU): Pflicht		

Lehrveranstaltung L3013: Managerial Finance for Sales and Sourcing (TAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	In business organizations, people are increasingly managed with numbers. Thus, after passing the course (Final grade 1), students are familiar with the basic financial concepts and tools used in the industry and are able to use them in simple contexts. However, in the management field, these concepts and tools must be applied in order to provide the foundation for decision-making. With final grades 2 and 3, students are able to understand how such concepts and tools are used to support management decisions making. In today's knowledge economy, financial information not only is seen as a tool for managing people or organizations. Instead, it is increasingly seen as a source of innovation. Analyzing financial data may, for example, reveal that some customers are willing to pay more of the same product than others, hence helping the company to target its customers better. Understanding of value creation requires that companies are not only able to analyze their own costs but, instead, they also need to analyze the costs of their customers and sometimes even their customer's customers. Similarly, companies are looking for new performance measurement systems or compensation plans to guide the organization to do the right things in order to maximize the value creation and, eventually, outperform the competition. Students passing the course with final grade of 4 and 5 are able to understand the role financial information can play in such business development processes and how financial tools can be applied in innovative ways.
Literatur	

Modul M1817: Basics of Industrial Management (TAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Grundlagen des industriellen Managements (TAU) (L3015)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Tampere University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Wertorientierte Technologie Geschäftsentwicklung (TAU): Pflicht		

Lehrveranstaltung L3015: Basics of Industrial Management (TAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	This course sets the stage for management studies and provides a solid foundation for more advanced studies in industrial management. After the course, students understand how technology-driven, industrial-scale operations provide goods and services efficiently to the society while, at the same time, make profit for the owners. Understanding of value creation and its relationship to the success of business organisations forms the cornerstone of the course. Core content UNDERSTANDING 2B2 ENVIRONMENT Customer value key to profitable business -supply and distribution networks -customer value -income statement and balance sheet -competitive advantage -contribution costing FROM IDEA TO A PROFITABLE BUSINESS Development of offering -product life cycle -competition -money flow in product development Bookkeeping -principles of double-entry bookkeeping -closing and re-opening the books -inventory, receivables and payables Marketing process -segmentation in B2B and B2C contexts -target market, differentiation and positioning

	-sales process in B2B markets SCALING UP THE BUSINESS Expanding the business -product-market matrix -different ways of exporting -cost and capital planning -venture capital Building and managing the organisation -developing organisational structure -defining systematic processes -cost and profit centres -full costing SUCCESSFUL EXIT Business environment in the knowledge economy -management and leadership in the future -focus on core competencies and outsourcing -knowledge-intensive services and gamification -successful exit Complementary knowledge evaluating/quantifying customer value in practice estimating payback period of a new process innovation in practice 3D printing as a communication tool in product development segmentation in B2B markets in practice challenges related to starting exports in practice building management reporting system and dashboards for KPIs in practice cultural differences in management and leadership
Literatur	

Modul M1819: Turning Technology into Business: Commercialization and Business Model Development (TAU)

Lehrveranstaltungen			
Titel	Typ	SWS	LP
Technologie in ein Geschäft verwandeln: Kommerzialisierung & Geschäftsmodellentwicklung (TAU) (L3017) Vorlesung		5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Tampere University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Wertorientierte Technologie Geschäftsentwicklung (TAU): Wahlpflicht		

Lehrveranstaltung L3017: Turning Technology into Business: Commercialization and Business Model Development (TAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The students will understand strategies and issues in commercializing circular economy technologies and technological products and services. The students investigate the design, analysis and utilization of business models and commercialization process models. Different tools, such as canvases and models, are applied for bridging technological innovation to customer needs and potential markets (commercialization process models, Business Model Canvas, Value proposition canvas, Impact Canvas). Special emphasis will be devoted to how institutions and regulations shape the business potential of circular economy technologies. The lessons learnt will cover strategic decision-making and tactics related to managing, financing and marketing technologies, acknowledging the different paths of turning circular economy technologies into business.
Literatur	

Modul M1818: Turning Circular Economy Technologies into Business (TAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Umwandlung von Technologien der Kreislaufwirtschaft in Unternehmen (TAU) (L3016)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz Wissen Fertigkeiten Personale Kompetenzen Sozialkompetenz Selbstständigkeit			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Tampere University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Wertorientierte Technologie Geschäftsentwicklung (TAU): Wahlpflicht		

Lehrveranstaltung L3016: Turning Circular Economy Technologies into Business (TAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The students will understand strategies and issues in commercializing circular economy technologies and technological products and services. The students investigate the design, analysis and utilization of business models and commercialization process models. Different tools, such as canvases and models, are applied for bridging technological innovation to customer needs and potential markets (commercialization process models, Business Model Canvas, Value proposition canvas, Impact Canvas). Special emphasis will be devoted to how institutions and regulations shape the business potential of circular economy technologies. The lessons learnt will cover strategic decision-making and tactics related to managing, financing and marketing technologies, acknowledging the different paths of turning circular economy technologies into business.
Literatur	

Modul M1820: Managing Operative Sales (TAU)			
Lehrveranstaltungen			
Titel	Typ	SWS	LP
Operativer Vertrieb (TAU) (L3014)	Vorlesung	5	5
Modulverantwortlicher	NN		
Zulassungsvoraussetzungen	None		
Empfohlene Vorkenntnisse			
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>			
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70		
Leistungspunkte	5		
Studienleistung	Keine		
Prüfung	Schriftliche Ausarbeitung		
Prüfungsdauer und -umfang	Prüfung abgelegt an der Tampere University		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Vertiefung Wertorientierte Technologie Geschäftsentwicklung (TAU): Pflicht		

Lehrveranstaltung L3014: Managing Operative Sales (TAU)	
Typ	Vorlesung
SWS	5
LP	5
Arbeitsaufwand in Stunden	Eigenstudium 80, Präsenzstudium 70
Dozenten	NN
Sprachen	EN
Zeitraum	WiSe
Inhalt	The objective of the course is to understand the nature of operative sales in B2B markets and the key concepts used for business development in global B2B networks. After the course students understand the key characteristics of B2B markets and operative sales processes. Furthermore, students are familiar with the basic concepts and tools used in the planning, management and improvement of the operative sales processes in B2B context. Guest lecturers will be used to illustrate what development of B2B sales practices and processes mean in practice. In addition, the student papers used as course material will provide an opportunity for 'peer learning' since those papers have been written by first year master's students majoring in International Sales and Sourcing; the papers will illustrate how some 'peers with similar background' have applied business concepts and tools in their practical business development projects. To support business development in business networks, the course also includes elements of financial and management accounting, focusing on concepts relevant to sales professionals with the special emphasis on value creation and value capture. Thus, after the course students are able to apply contribution and full costing in simple pricing situations. The students also understand basic principles how business potential of a new offering or a new market can be quantified and are able to use that knowledge in the budgeting process. Finally, the students are able to apply financial key ratios to analyze income statement and balance sheet in order to evaluate and prioritize existing and potential customers. Selling technology-intensive products and services requires close collaboration with customers in order to help customers solve complex problems, making sales professionals almost consultants. To support that, the course also contains exercise on face-to-face sales negotiation to enable students to evaluate their current communication skills and potential areas of improvement. Thus, after the course students understand principles of good business interaction, are able to prepare and give a short 'pitch' focusing on essential elements from the customer's point of view and are aware of areas in business communication that still need improvement.
Literatur	

Thesis

Modul M-003: Masterarbeit

Lehrveranstaltungen

Titel	Typ	SWS	LP
Modulverantwortlicher	It. FSPO		
Zulassungsvoraussetzungen	Laut ASPO § 21 (1): Es müssen mindestens 60 Leistungspunkte im Studiengang erworben worden sein. Über Ausnahmen entscheidet der Prüfungsausschuss.		
Empfohlene Vorkenntnisse	keine		
Modulziele/ angestrebte Lernergebnisse	Nach erfolgreicher Teilnahme haben die Studierenden die folgenden Lernergebnisse erreicht		
Fachkompetenz <i>Wissen</i> <i>Fertigkeiten</i> Personale Kompetenzen <i>Sozialkompetenz</i> <i>Selbstständigkeit</i>	- Die Studierenden können das Spezialwissen (Fakten, Theorien und Methoden) ihres Studienfaches sicher zur Bearbeitung fachlicher Fragestellungen einsetzen. - Die Studierenden können in einem oder mehreren Spezialbereichen ihres Faches die relevanten Ansätze und Terminologien in der Tiefe erklären, aktuelle Entwicklungen beschreiben und kritisch Stellung beziehen. - Die Studierenden können eine eigene Forschungsaufgabe in ihrem Fachgebiet verorten, den Forschungsstand erheben und kritisch einschätzen. - Die Studierenden sind in der Lage, für die jeweilige fachliche Problemstellung geeignete Methoden auszuwählen, anzuwenden und ggf. weiterzuentwickeln. - Die Studierenden sind in der Lage, im Studium erworbenes Wissen und erlernte Methoden auch auf komplexe und/oder unvollständig definierte Problemstellungen lösungsorientiert anzuwenden. - Die Studierenden können in ihrem Fachgebiet neue wissenschaftliche Erkenntnisse erarbeiten und diese kritisch beurteilen. - Studierende können - eine wissenschaftliche Fragestellung für ein Fachpublikum sowohl schriftlich als auch mündlich strukturiert, verständlich und sachlich richtig darstellen. - in einer Fachdiskussion Fragen fachkundig und zugleich adressatengerecht beantworten und dabei eigene Einschätzungen überzeugend vertreten. - Studierende sind fähig, - ein eigenes Projekt in Arbeitspakete zu strukturieren und abzuarbeiten. - sich in ein teilweise unbekanntes Arbeitsgebiet des Studiengangs vertieft einzuarbeiten und dafür benötigte Informationen zu erschließen. - Techniken des wissenschaftlichen Arbeitens umfassend in einer eigenen Forschungsarbeit anzuwenden.		
Arbeitsaufwand in Stunden	Eigenstudium 900, Präsenzstudium 0		
Leistungspunkte	30		
Studienleistung	Keine		
Prüfung	Iaut FSPO		
Prüfungsdauer und -umfang	Iaut FSPO		
Zuordnung zu folgenden Curricula	Global Technology and Innovation Management & Entrepreneurship: Abschlussarbeit: Pflicht		