

Module Manual

Master of Science (M.Sc.)

Global Technology and Innovation Management & Entrepreneurship

Joint Master

Cohort: Winter Term 2021

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Program description

Content

The MSc. in Global Technology and Innovation Management & Entrepreneurship (G-TIME) is a unique 2-year programme offered jointly by a consortium of internationally renowned universities. The consortium consists of following partners: Aalborg University (Denmark), Kaunas University of Technology (Lithuania), Manipal University (India), Ritsumeikan Asia Pacific University (Japan), Hamburg University of Technology (Germany) and University of Strathclyde (Scotland).

The MSc. G-TIME enables graduates of first degrees in engineering, science and technology to successfully manage the innovation process across international boundaries. Students have the opportunity to study at two different universities. The program starts off in Hamburg (Germany) where all students spend the first year (1st & 2nd semester) together. During the second year (3rd & 4th semester) students deepen their G-TIME knowledge at one of the international partner institutions.

Career prospects

Graduates, supported by a network of valuable contacts, enter the international employment market working:

- with enterprises dealing with high end technological products and services
- as consultants making technology assessment and innovation /change management
- with governmental institutes dealing with innovation policy and strategy
- with relevant research and higher education institutions

Learning target

The program equips students with skills to transform research outputs into innovative products and services. Learning the tools and techniques for working globally, students apply this knowledge practically by working on projects with industry contacts in different countries, further enhancing their understanding of international business. G-TIME addresses new challenges in innovative global enterprise and provides:

- A practical and global perspective of Innovation Management, through industry based modules
- Skills applicable for larger multinational organisations to smaller enterprises including start-ups
- Expanded perspectives of Innovation Management including Technology Management, R&D, and Product/Service Development with focus on the interface between disciplines involved in the process;
- Increased research capability focused on activities at the periphery of the innovation process.

Program structure

The programme is fulltime over 24 months and divided into 4 semesters of study. All students take a common first year at Hamburg University of Technology. Depending on their special interests they choose one of the international partner institutions for the second year.

Semesters 1 and 2 at Hamburg University of Technology provide a strong foundation in the field of Technology and Innovation Management. They look at early and late phases of the innovation management process. It concentrates on market research for (radical) innovation, cross functional cooperation at the front end of the innovation process, managing innovation projects over geographical and functional/divisional boarders and preparing the market introduction of new products and services. In addition, they provide a foundation in the field of Entrepreneurship.

The course content of semester 3 (year 2) depends on which partner institution is chosen. Based on their specific core competencies each partner offers courses which complement / deepen the study program of the first year.

In semester 4 all students undertake a thesis project at the institution where they spent the 3rd semester.

Core Qualification

The MSc. in Global Technology and Innovation Management & Entrepreneurship (G-TIME) is a unique 2-year programme offered jointly by a consortium of internationally renowned universities. The consortium consists of following partners: Aalborg University (Denmark), Kaunas University of Technology (Lithuania), Manipal University (India), Ritsumeikan Asia Pacific University (Japan), Hamburg University of Technology (Germany) and University of Strathclyde (Scotland).

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Module Responsible	Dagmar Richter		
Admission Requirements	None		
Recommended Previous	lone		
Knowledge			
	After taking part successfully, students have reached the following learning results		
Professional Competence Knowledae	The Nontechnical Academic Programms (NTA)		
	imparts skills that, in view of the TUHH's training profile, professional engineering studies require but are not able to cover		
	Self-reliance, self-management, collaboration and professional and personnel management competences. The departr implements these training objectives in its teaching architecture , in its teaching and learning arrangements , in teac		
	areas and by means of teaching offerings in which students can qualify by opting for specific competences and a compet		
	level at the Bachelor's or Master's level. The teaching offerings are pooled in two different catalogues for nontech		
	complementary courses.		
	The Learning Architecture		
	consists of a cross-disciplinarily study offering. The centrally designed teaching offering ensures that courses in the nontech		
	academic programms follow the specific profiling of TUHH degree courses.		
	The learning architecture demands and trains independent educational planning as regards the individual developme		
	competences. It also provides orientation knowledge in the form of "profiles".		
	The subjects that can be studied in parallel throughout the student's entire study program - if need be, it can be studied in o		
	two semesters. In view of the adaptation problems that individuals commonly face in their first semesters after making		
	transition from school to university and in order to encourage individually planned semesters abroad, there is no obligation		
	study these subjects in one or two specific semesters during the course of studies.		
	Teaching and Learning Arrangements		
	provide for students, separated into B.Sc. and M.Sc., to learn with and from each other across semesters. The challenge of de		
	with interdisciplinarity and a variety of stages of learning in courses are part of the learning architecture and are deliber		
	encouraged in specific courses.		
	Fields of Teaching		
	are based on research findings from the academic disciplines cultural studies, social studies, arts, historical stu		
	communication studies, migration studies and sustainability research, and from engineering didactics. In addition, from the w		
	semester 2014/15 students on all Bachelor's courses will have the opportunity to learn about business management and star		
	in a goal-oriented way.		
	The fields of teaching are augmented by soft skills offers and a foreign language offer. Here, the focus is on encouraging		
	oriented communication skills, e.g. the skills required by outgoing engineers in international and intercultural situations.		
	The Competence Level		
	of the courses offered in this area is different as regards the basic training objective in the Bachelor's and Master's fields. T		
	differences are reflected in the practical examples used, in content topics that refer to different professional application cont		
	and in the higher scientific and theoretical level of abstraction in the B.Sc.		
	This is also reflected in the different quality of soft skills, which relate to the different team positions and different group leade		
	functions of Bachelor's and Master's graduates in their future working life.		
	Specialized Competence (Knowledge)		
	Students can		
	explain specialized areas in context of the relevant non-technical disciplines,		
	• outline basic theories, categories, terminology, models, concepts or artistic techniques in the disciplines represented in		
	learning area,		
	 different specialist disciplines relate to their own discipline and differentiate it as well as make connections, sketch the basic outlines of how scientific disciplines, paradiams, models, instruments, methods and forms of represent 		
	 sketch the basic outlines of how scientific disciplines, paradigms, models, instruments, methods and forms of represent in the specialized sciences are subject to individual and socio-cultural interpretation and historicity, 		
	in the specialized sciences are subject to marriadal and socio-cultural interpretation and instoneity,		

Entrepreneurship"	
Skills	Professional Competence (Skills)
	In selected sub-areas students can
	 apply basic and specific methods of the said scientific disciplines, aquestion a specific technical phenomena, models, theories from the viewpoint of another, aforementioned specialist discipline, to handle simple and advanced questions in aforementioned scientific disciplines in a sucsessful manner, justify their decisions on forms of organization and application in practical questions in contexts that go beyond the technical relationship to the subject.
Personal Competence Social Competence	Personal Competences (Social Skills)
	Students will be able
	 to learn to collaborate in different manner, to present and analyze problems in the abovementioned fields in a partner or group situation in a manner appropriate to the addressees, to express themselves competently, in a culturally appropriate and gender-sensitive manner in the language of the country (as far as this study-focus would be chosen), to explain nontechnical items to auditorium with technical background knowledge.
Autonomy	Personal Competences (Self-reliance)
	Students are able in selected areas
	 to reflect on their own profession and professionalism in the context of real-life fields of application to organize themselves and their own learning processes to reflect and decide questions in front of a broad education background to communicate a nontechnical item in a competent way in writen form or verbaly to organize themselves as an entrepreneurial subject country (as far as this study-focus would be chosen)
Workload in Hours	Depends on choice of courses
Credit points	6

Courses

Information regarding lectures and courses can be found in the corresponding module handbook published separately.

Module M1601: Found	lations of Corporate Manageme	ent (GTIME)		
Courses				
Title		Тур	Hrs/wk	СР
Foundations of Business Manageme	nt (GTIME) (L2417)	Lecture	2	2
Foundations of Business Manageme	nt (GTIME) - Seminar (L2825)	Seminar	2	1
Foundations of International Manag	ement (GTIME) (L2419)	Lecture	2	2
Foundations of International Manag	ement (GTIME) - Seminar (L2826)	Seminar	2	1
Module Responsible	Dr. Stephan Buse			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students have r	eached the following learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 68, Study Time in Le	cture 112		
Credit points	6			
Course achievement	None			
Examination	Written elaboration			
Examination duration and	90 Minuten			
scale				
Assignment for the	Global Innovation Management: Core Qualifica	ation: Elective Compulsory		
Following Curricula	Global Technology and Innovation Manageme	nt & Entrepreneurshin: Core Qualificatio	n: Compulsory	

Course 2417:	Foundations of Business	Management	(GTIME)

Тур	Lecture	
Hrs/wk	2	
СР		
Workload in Hours	Independent Study Time 32, Study Time in Lecture 28	
Lecturer	Dr. Stephan Buse	
Language	EN	
Cycle	WiSe	
Content	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.	
Literature	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	

Course L2825: Foundations of	Course L2825: Foundations of Business Management (GTIME) - Seminar		
Тур	Seminar		
Hrs/wk	2		
СР	1		
Workload in Hours	Independent Study Time 2, Study Time in Lecture 28		
Lecturer	Dr. Stephan Buse		
Language	EN		
Cycle	WiSe		
Content			
Literature			

Course L2419: Foundations of	Course L2419: Foundations of International Management (GTIME)		
Тур	Lecture		
Hrs/wk	2		
СР	2		
Workload in Hours	Independent Study Time 32, Study Time in Lecture 28		
Lecturer	Dr. Stephan Buse		
Language	EN		
Cycle	SoSe		
	 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. 		
Literature			

Course L2826: Foundations	ourse L2826: Foundations of International Management (GTIME) - Seminar		
Тур	Seminar		
Hrs/wk	2		
СР			
Workload in Hours	ndependent Study Time 2, Study Time in Lecture 28		
Lecturer	Dr. Stephan Buse		
Language	EN		
Cycle	Cycle WiSe		
Content			
Literature			

Module M1600: Mindf	ulness and Communication			
Courses				
Title		Тур	Hrs/wk	СР
Mindfulness and Leadership (L2421)	Project Seminar	2	2
Intercultural Competencies (L2420)		Lecture	2	2
Communication Skills (L2422)		Project Seminar	2	2
Module Responsible	Dr. Stephan Buse			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students hav	e reached the following learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 96, Study Time in	Lecture 84		
Credit points	6			
Course achievement	None			
Examination	Written elaboration			
Examination duration and	90 Minuten			
scale				
Assignment for the	Global Technology and Innovation Manager	nent & Entrepreneurship: Core Qualification: Co	ompulsory	
Following Curricula				

Course L2421: Mindfulness and Leadership			
Тур	Project Seminar		
Hrs/wk	2		
СР	2		
Workload in Hours	Independent Study Time 32, Study Time in Lecture 28		
Lecturer	Prof. Cornelius Herstatt, Dr. Sandra-Luisa Moschner		
Language	EN		
Cycle	WiSe		
	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.		
	 Csiksdentmihalyi, M. (1990). Flow. The Psychology of Optimal Experience. HarperCollins. Williams, M., Penman, D. (2011). Mediation 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. 		

Course L2420: Intercultural (Competencies
Тур	Lecture
Hrs/wk	2
CP	2
Workload in Hours	Independent Study Time 32, Study Time in Lecture 28
Lecturer	Dr. Stephan Buse, Prof. Dr. habil. Rajnish Tiwari
Language	EN
Cycle	WiSe
Content	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
Literature	 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

Course L2422: Communication	Course L2422: Communication Skills		
Тур	Project Seminar		
Hrs/wk	2		
СР	2		
Workload in Hours	Independent Study Time 32, Study Time in Lecture 28		
Lecturer	Prof. Cornelius Herstatt, Malte David Krohn		
Language	EN		
Cycle	WiSe		
Content	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.		
Literature	 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. 		

Module M1705: Shapi	ing the world of tomorrow	
Courses		
Title	Typ Hrs/wk	СР
Shaping the world of tomorrow (L2	718) 4	6
Module Responsible	NN	
Admission Requirements	None	
Recommended Previous		
Knowledge		
Educational Objectives	After taking part successfully, students have reached the following learning results	
Professional Competence		
Knowledge		
Skills		
Personal Competence		
Social Competence		
Autonomy		
Workload in Hours	Independent Study Time 124, Study Time in Lecture 56	
Credit points	6	
Course achievement	None	
Examination	Written elaboration	
Examination duration and	5-Minütiger Film + schriftliche Dokumentation	
scale		
Assignment for the	Global Technology and Innovation Management & Entrepreneurship: Core Qualification: Elective Compulsory	
Following Curricula		

Course L2718: Shaping the w	urse L2718: Shaping the world of tomorrow	
Тур		
Hrs/wk	4	
СР	6	
Workload in Hours	Independent Study Time 124, Study Time in Lecture 56	
Lecturer	Dummy Dozent	
Language	EN	
Cycle	WiSe	
Content		
Literature		

Module M1706: Data	Science & Machine Learning	for Manager		
Courses				
Title		Тур	Hrs/wk	СР
Data Science & Machine Learning f	or Managers (L2719)		4	6
Module Responsible	Dozenten des SD W			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students have	ve reached the following learning result	5	
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 124, Study Time	in Lecture 56		
Credit points	6			
Course achievement	None			
Examination	Subject theoretical and practical work			
Examination duration and	40 pages lab journal			
scale				
Assignment for the	Global Technology and Innovation Manage	ment & Entrepreneurship: Core Qualific	ation: Elective Compulsory	
Following Curricula				

Course L2719: Data Science	ourse L2719: Data Science & Machine Learning for Managers	
Тур		
Hrs/wk	4	
СР	6	
Workload in Hours	Independent Study Time 124, Study Time in Lecture 56	
Lecturer	Prof. Christoph Ihl	
Language	EN	
Cycle	WiSe	
Content		
Literature		

Entrepreneurship"				
Module M1035: Entre	preneurial Finance			
Courses				
Fitle		Тур	Hrs/wk	СР
Entrepreneurial Finance: Case Stud	lies (L1282)	Seminar	3	4
Intrepreneurial Finance: Lecture (I	.1281)	Lecture	2	2
Module Responsible	Prof. Christoph Ihl			
Admission Requirements	None			
	Basic knowledge in business econom "Technology Entrepreneurship" is highl	ics and finance obtained in the compulsory y recommended.	modules and participa	ation in the moo
Educational Objectives	After taking part successfully, students	have reached the following learning results		
Professional Competence				
	Wissen (subject-related knowledge and	understanding):		
	understand the structure of a fin			
		and cons of different valuation methods		
	 understand the design of financia understand the interacts of vents 			
	 understand the interests of vento understand the pros and cons of 			
		uncient growth and exit options		
Skills	Fertigkeiten (subject-related skills):			
	 prepare a financial plan for a new 	v venture		
	 value a new venture in financial 			
	 apply different valuation method 			
	 evaluate the attractiveness of fin 			
	design VC term sheets			
	 design employee contracts in ter 	ms of financial compensation		
	 design financial contracts and co 	nduct financial negotiations		
	 assess and justify possible growt 	h and exit options		
Dersenal Competence				
Personal Competence	Sazialkampatanz (Sacial Compatanca)			
Social Competence	Sozialkompetenz (Social Competence):			
	team work			
	 communication and presentation 	1		
	• give and take critical comments			
	engaging in fruitful discussions			
Autonomy	Selbständigkeit (Autonomy):			
	 autonomous work and time mana 	agement		
	project management			
	 analytical skills 			
Workload in Hours	Independent Study Time 110, Study Tir	ne in Lecture 70		
Credit points	6			
Course achievement	Compulsory Bonus Form	Description		
	Yes 20 % Group discussion	n		
Examination	Subject theoretical and practical work			
Examination duration and	Presentations and case study work			
scale				
Assignment for the	Global Innovation Management: Core Q	ualification: Elective Compulsory		
Following Curricula	Global Technology and Innovation Mana	agement & Entrepreneurship: Core Qualification	: Elective Compulsory	
		ring: Specialisation I. Electives Management: El		
	Mechanical Engineering and Manageme	ent: Specialisation Management: Elective Compu	ulsory	

Course L1282: Entrepreneur	ial Finance: Case Studies
Тур	Seminar
Hrs/wk	3
СР	4
Workload in Hours	Independent Study Time 78, Study Time in Lecture 42
Lecturer	Prof. Christoph Ihl
Language	
Cycle	
Content	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 innutition 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 the years old, and introduce innovative products or business models. The younger are called "startups," and are typically less than the years old. There is a variety of investors who can finance entrepreneurial companies. They and reinds, 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, 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 thugh liquidity events such as initial public offe
Literature	Da Rin, Marco, and Thomas Hellmann. Fundamentals of Entrepreneurial Finance. Oxford University Press, 2020.

Course L1281: Entrepreneuri	al Finance: Lecture
Тур	Lecture
Hrs/wk	2
СР	2
Workload in Hours	Independent Study Time 32, Study Time in Lecture 28
Lecturer	Prof. Christoph Ihl
Language	
Cycle	
Content	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 though 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
Literature	Da Rin, Marco, and Thomas Hellmann. Fundamentals of Entrepreneurial Finance. Oxford University Press, 2020.

Courses				
Title		Тур	Hrs/wk	СР
Fechnology Management (GTIME) Fechnology Management Seminar		Lecture Project-/problem-based Learning	3 2	3 3
	Prof. Cornelius Herstatt	Hoject-problem-based Learning	2	5
Admission Requirements				
	Bachelor knowledge in business management			
Knowledge	bachelor knowledge in busiless management			
	After taking part successfully, students have re	ached the following learning results		
Professional Competence				
	Students will gain deep insights into:			
	International R&D-Management			
	Technology Timing Strategies			
	 Technology Strategies and Lifecycle Man 	accoment (1/11)		
	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			
Skills	The course aims to:			
	 Develop an understanding of the important 	ance of Technology Management - on a national	as well as inte	rnational level
		ng of important elements of Technology Ma		
	organizational and process-related aspec			
		n-solving within the innovation process as well	as Technology	Management and
	importance for corporate strategy			
	Clarify activities of Technology Managem	nent (e.g. technology sourcing, maintenance and	exploitation)	
	 Strengthen essential communication sk 	kills and a basic understanding of managerial,	organizational	and financial issu
	concerning Technology-, Innovation- and	R&D-management. Further topics to be discuss	ed include:	
	 Basic concepts, models and tools, releva 	nt to the management of technology, R&D and i	nnovation	
	 Innovation as a process (steps, activities 			
_ • _ ·				
Personal Competence				
Social Competence	Interact within a team			
	Raise awareness for globabl issues			
Autonomy				
Autonomy	Gain access to knowledge sources			
	 Discuss recent research debates in the c 	context of Technology and Innovation Manageme	nt	
	Develop presentation skills			
	Discussion of international cases in R&D-	-Management		
Workload in Hours	Independent Study Time 110, Study Time in Le	cture 70		
Credit points	6			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
Assignment for the	Global Technology and Innovation Management	t & Entrepreneurship: Core Qualification: Compu	lsory	
Following Curricula				

Course L2423: Technology M	Course L2423: Technology Management (GTIME)		
Тур	Lecture		
Hrs/wk	3		
СР	3		
Workload in Hours	Independent Study Time 48, Study Time in Lecture 42		
Lecturer	Prof. Cornelius Herstatt, Prof. Tim Schweisfurth		
Language	EN		
Cycle	WiSe		
Content	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.		
Literature	Leiblein, M./Ziedonis, A.: Technology Strategy and Inoovation Management, Elgar Research Collection, Northhampton (MA) 2011		

Course L2424: Technology M	Course L2424: Technology Management Seminar (GTIME)	
Тур	Project-/problem-based Learning	
Hrs/wk	2	
CP	3	
Workload in Hours	Independent Study Time 62, Study Time in Lecture 28	
Lecturer	Prof. Cornelius Herstatt, Prof. Daniel Heiner Ehls, Prof. Tim Schweisfurth	
Language	EN	
Cycle	WiSe	
Content	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.	
Literature	See lecture Technology Management.	

Module M1602: Produ	ct Planning (GTIME)			
Courses				
Title		Тур	Hrs/wk	СР
Product Planning (GTIME) (L2425)		Lecture	3	3
Product Planning Seminar (GTIME)	L2426)	Project-/problem-based Learning	2	3
Module Responsible	Prof. Cornelius Herstatt			
Admission Requirements	None			
Recommended Previous	Good basic-knowledge of Business Administration			
Knowledge				
Educational Objectives	After taking part successfully, students have reached the following	ng learning results		
Professional Competence				
Knowledge	Students will gain insights into:			
	Product Planning			
	Product Planning			
	• Process			
	Methods			
	Design thinking			
	• Process			
	Methods			
	User integration			
Skills	Students will gain deep insights into:			
	Product Planning			
	Process-related aspects			
	Organisational-related aspects			
	Human-Ressource related aspects			
	 Working-tools, methods and instruments 			
	-			
Personal Competence				
Social Competence	Interact within a team			
	Raise awareness for globabl issues			
Autonomy	Gain access to knowledge sources			
	Interpret complex cases Develop presentation skills			
	Develop presentation skills			
Workload in Hours	Independent Study Time 110, Study Time in Lecture 70			
Credit points	6			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
Assignment for the	Global Technology and Innovation Management & Entrepreneurs	hip: Core Qualification: Compuls	ory	
Following Curricula		•	-	

Course L2425: Product Plann	ing (GTIME)
Тур	Lecture
Hrs/wk	3
СР	3
Workload in Hours	Independent Study Time 48, Study Time in Lecture 42
Lecturer	Prof. Cornelius Herstatt, Prof. Moritz Göldner
Language	EN
Cycle	WiSe
Content	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
Literature	Ulrich, K./Eppinger, S.: Product Design and Development, 2nd. Edition, McGraw-Hill 2010

Course L2426: Product Plann	ing Seminar (GTIME)
Тур	Project-/problem-based Learning
Hrs/wk	2
СР	3
Workload in Hours	Independent Study Time 62, Study Time in Lecture 28
Lecturer	Prof. Cornelius Herstatt, Prof. Moritz Göldner
Language	EN
Cycle	WiSe
Content	Seminar is integrative part of the Module Product Planning (GTIME). For content see lecture information. The seminar can not be choosen independantly.
Literature	See lecture information "Product Planning".

Module M1590: Proje	ct Seminar Innovation Mark	eting (GTIME)		
Courses				
Title		Тур	Hrs/wk	СР
Seminar Innovation Marketing (GTI	ME) (L2427)	Project Seminar	4	6
Module Responsible	Prof. Christian Lüthje			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students	have reached the following learning results		
Professional Competence				
Knowledge	Students can			
	 understand the process and the 	tools of market analysis for innovations (e.g. ma	arket potential ma	rket growth mark
	segmentation)		unkee potential, ma	ince growen, man
	-	stomers, market definition and market growth		
	 select the appropriate approach f 			
		sues (strengths and weaknesses) of technology-bas	sed business opport	unities
Skills	Students are capable of			
	 analyzing the market potential of 	inventions and innovative business ideas by using	appropriate method	ls.
		s still open for a given innovation and develop a first		
	and the marketing mix.			-
	 searching for relevant information 	n (primary and secondary market data).		
	 analyzing, aggregating, and interest 	erpreting the gathered data and giving well for	unded recommenda	tions based on t
	findings.			
	writing a scientific report that inc	ludes the literature background as well as the deve	elopment of their m	ethods, their resul
	conclusions and recommendation	s.		
Personal Competence				
Social Competence	Students are able to			
	- access passible concernances of	their own desisions		
	assess possible consequences of			
	 define required tasks to find a sol make elaborated desirings in any 			
	make elaborated decisions in an			
	assess their own performance in	a team.		
Autonomy	The work in teams over an entire set	mester and the interaction with professionals, ex	perts and project p	oartners outside t
	unviersity will support the students in	their competenece to access the required inform	mation that is need	ed for making we
	founded decisions with a high level of tr	ust in the own capabilties.		
Workload in Hours	Independent Study Time 124, Study Tim	ne in Lecture 56		
Credit points	· · · · · · · · · · · · · · · · · · ·			
Course achievement				
Examination				
Examination duration and		resentation, oral participation		
scale				
Assignment for the	Global Technology and Innovation Mana	gement & Entrepreneurship: Core Qualification: Co	mpulsory	
Following Curricula			, ,	
	<u> </u>			

Тур	Project Seminar
Hrs/wk	4
CP	6
Workload in Hours	Independent Study Time 124, Study Time in Lecture 56
Lecturer	Prof. Christian Lüthje, Prof. Jan-Paul Lüdtke, Prof. Michael Fretschner
Language	EN
Cycle	WiSe
Content	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 other 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.

 Literature
 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

Courses				
Title		Тур	Hrs/wk	СР
Marketing of Innovations (L2009)		Lecture	4	4
PBL Marketing of Innovations (L086	2)	Project-/problem-based Learning	1	2
Module Responsible	Prof. Christian Lüthje			
Admission Requirements	None			
Recommended Previous	Medule International Duciness			
Knowledge	 Module International Business Basic understanding of business administration 	nrinciples (strategic planning decis	ion theory n	roject manageme
	international business)		ion incory, p	lojeet manageme
	Bachelor-level Marketing Knowledge (Marketing Ins	ruments, Market and Competitor Stra	tegies, Basics	of Buying Behavior
	Unerstanding the differences beweetn B2B and B2C	marketing		
	Understanding of the importance of managing inno	vation in global industrial markets		
	Good English proficiency; presentation skills			
Educational Objectives	After taking part successfully, students have reached the	ollowing learning results		
Professional Competence	Arter taking part successiony, students have reached the			
Knowledge	Students will have gained a deep understanding of			
Kilowicage				
	Specific characteristics in the marketing of innovati			
	Approaches for analyzing the current market situat		t	
	The gathering of information about future customer		dovelopment	
	 Concepts and approaches to integrate lead users a Approaches and tools for ensuring customer-orienta 			
	 Marketing mix elements that take into considerati 			
	services			
	 Pricing methods for new products and services 			
	• The organization of complex sales forces and perso	nal selling		
	Communication concepts and instruments for new	products and services		
Skills	Based on the acquired knowledge students will be able to			
	 Design and to evaluate decisions regarding market 	ng and innovation strategies		
	 Analyze markets by applying market and technolog 	y portfolios		
	Conduct forecasts and develop compelling scenario	s as a basis for strategic planning		
	Translate customer needs into concepts, prototype	s and marketable offers and success	fully apply ad	vanced methods f
	customer-oriented product and service developmer			
	Use adequate methods to foster efficient diffusion of the second se			
	 Choose suitable pricing strategies and communicat Make strategic sales decisions for products and ser 			
	 Apply methods of sales force management (i.e. cus) 			
Personal Competence				
Social Competence	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			
Autonomy	The students will be able to			
	Acquire knowledge independently in the specific co	ntext and to map this knowledge on of	her new comp	olex problem fields
	Consider proposed business actions in the field of n	arketing and reflect on them.		
Workload in Hours	Independent Study Time 110, Study Time in Lecture 70			
Credit points	6			
Course achievement	None			
Examination	Subject theoretical and practical work			
Examination duration and	Written elaboration, excercises, presentation, oral particip	ation		
scale				
Assignment for the	Global Technology and Innovation Management & Entrepr		-	
Following Curricula	International Management and Engineering: Specialisation		npuisory	
	Mechanical Engineering and Management: Specialisation Biomedical Engineering: Specialisation Artificial Organs ar	•	nnulsorv	
	Biomedical Engineering: Specialisation Implants and Endo			
	Biomedical Engineering: Specialisation Implants and Endo Biomedical Engineering: Specialisation Medical Technolog		sory	
	Biomedical Engineering: Specialisation Management and I		-	

Course L2009: Marketing of I	nnovations
Тур	Lecture
Hrs/wk	4
СР	4
Workload in Hours	Independent Study Time 64, Study Time in Lecture 56
	Prof. Christian Lüthje
Language	
Cycle Content	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
Literature	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, McGrw 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. 4 th 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

Course L0862: PBL Marketing	g of Innovations
Тур	Project-/problem-based Learning
Hrs/wk	1
CP	2
Workload in Hours	Independent Study Time 46, Study Time in Lecture 14
Lecturer	Prof. Christian Lüthje
Language	EN
Cycle	SoSe
Content	This PBL course is seggregated into two afternoon sessions. This cours 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 wtihin a market simulation game.
Literature	

Module M1358: Globa	I Innovation Management			
Courses				
Title		Тур	Hrs/wk	СР
Managing Global Innovation (L1933)		Lecture Seminar	3	3
Managing Global Innovation - Semi		Seminar	2	3
Module Responsible				
Admission Requirements Recommended Previous	None Basic knowledge of innovation managemen	t and globalization		
Kecommended Previous Knowledge	basic knowledge of innovation managemen			
Educational Objectives	After taking part successfully, students hav	e reached the following learning results		
Professional Competence	Filter taking part successionly, statents hav	e reaction the following learning results		
Knowledge		untries such as India and China, but also to y important as innovation locations and sale	o other countries in Al	frica, Asia and Sou
Skills	 Open Innovation Approach Transnational Model Internationalisation of Research & De By means of the theories and models discu 		gnificance and effects	of globalisation fro
	an economic as well as a business pers innovation strategies and innovation location	spective. Furthermore, they learn to asses ons.	s the competitivenes	s of entrepreneur
Personal Competence				
Social Competence	After successful completion of the module, addition, they can conduct subject-specific results of their work in accordance with the	discussions on issues of global innovation m		
Autonomy		ule, students can conduct case studies on hey are able to independently select and an		
Workload in Hours	Independent Study Time 110, Study Time in	n Lecture 70		
Credit points	6			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
-	Global Technology and Innovation Manager	nent & Entrepreneurship: Core Qualification:	Compulsory	
Following Curricula				

Course L1934: Managing Glo	bal Innovation - Seminar
Тур	Seminar
Hrs/wk	2
СР	3
Workload in Hours	Independent Study Time 62, Study Time in Lecture 28
Lecturer	Dr. Stephan Buse, Prof. Dr. habil. Rajnish Tiwari
Language	EN
Cycle	SoSe
Content	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.
Literature	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.

Courses				
Title Creation of Business Opportunities Intrepreneurship (L1279)	(L1280) Pr	yp roject-/problem-based Learning ecture	Hrs/wk 3 2	CP 4 2
Module Responsible	Prof. Christoph Ihl			
Admission Requirements				
Recommended Previous	Basic knowledge in business economics obtained in the compulso pursuit of new business opportunities either in corporate or startup		erest in new t	cechnologies and
Educational Objectives	After taking part successfully, students have reached the following	learning results		
Professional Competence				
	 Wissen (subject-related knowledge and understanding): develop a working knowledge and understanding of the entre understand the difference between a good idea and scalable understand the process of taking a technology idea and findi understand the components of business models understand the components of business opportunity assessing 	business opportunity ing a high-potential commerci	al opportunity	,
Skills	 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 formulate and test business model assumptions and h conduct customer and expert interviews regarding bus prepare business opportunity assessment create and verify a plan for gathering resources such a pitch a business opportunity to your classmates and the 	ypotheses siness opportunities as talent and capital	portunity	
Personal Competence				
Social Competence	Sozialkompetenz (Social Competence):			
Autonomy	 team work communication and presentation give and take critical comments engaging in fruitful discussions Selbständigkeit (Autonomy): autonomous work and time management project management analytical skills 			
Workload in Hours	Independent Study Time 110, Study Time in Lecture 70			
Credit points	6			
Course achievement	None			
Examination	Subject theoretical and practical work			
	Three presentations on the respective project status			
-	Global Technology and Innovation Management & Entrepreneurship International Management and Engineering: Specialisation I. Electiv Logistics, Infrastructure and Mobility: Core Qualification: Elective Co	ves Management: Elective Con		

Course L1280: Creation of Bu	isiness Opportunities
Тур	Project-/problem-based Learning
Hrs/wk	3
СР	4
Workload in Hours	Independent Study Time 78, Study Time in Lecture 42
Lecturer	Prof. Christoph Ihl, Dr. Hannes Lampe
Language	EN
Cycle	SoSe
Content	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 validation presentation after 10 weeks: 30% • Startup validat
Literature	 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.

Course L1279: Entrepreneurs	ship
Тур	Lecture
Hrs/wk	2
CP	2
Workload in Hours	Independent Study Time 32, Study Time in Lecture 28
Lecturer	Prof. Christoph Ihl
Language	EN
Cycle	SoSe
Content	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 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
Literature	• 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.

Module M1381: Agile	Design Methods			
Courses				
Title		Тур	Hrs/wk	СР
Agile Design Methods (L1962)		Project Seminar	3	3
Agile Design Methods (L2294)		Lecture	2	3
Module Responsible	Dr. Stephan Buse			
Admission Requirements	None			
Recommended Previous	None			
Knowledge				
Educational Objectives	After taking part successfully, students have	ve reached the following learning results		
Professional Competence				
Knowledge	The students know:			
		f design management and can explain the	m and their importa	ince for agile proje
	management.	and the state of the state of the state		
	The distinction between linear and in	• •		
	 Appropriate software for supporting The interrelation between working c 			
	 The interrelation between working c The theoretical construct behind but 		agios	
		man-centered design and its diverse methodol v resolution prototyping and software to realiz		
	• The difference between high and low	resolution prototyping and software to realiz	e digital Prototyps.	
Skills	The students are able:			
	• to decide on an appropriate metho	d to approach an innovation project. They re	cognize the differend	ce between agile ar
	iterate of methodologies and water		5	5
	• They apply the relevant methods for	or the fuzzy front end (e.g. Design Thinking)	or the implementation	on of an idea in ag
	 They apply the relevant methods for the fuzzy front end (e.g. Design Thinking) or the implementation of an idea teams (e.g. Scrum). to self-moderate the Design Thinking process in their team. 			
	 to use appropriate methods to creat 	e a common understanding and across depart	mental teams.	
	 They carry out a synthases 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 su 	pporting the process.		
Personal Competence				
Social Competence	The students are able:			
	 to work successfully and respectfully 			
	to reach the expected results within		ic. I de la company	
		ner discussions on the topic of innovation- spec	cifically design manag	gement.
	to present the results of the work to	others in an understandable and catchy way.		
Autonomy	The students are able:			
	• to correct out on innovation process for	or any given challenge independently, individu	ally or in a team	
		endently or in a team, selecting and using	-	design methods ar
	software.	sidentity of in a team, selecting and using	appropriate analog	design methods a
		allenge independently and apply their knowled	lae in problem-solvin	a
		the work and their own behavior in the team.	ige in problem solvin	9.
	to endeally reneed on the results of t			
Workload in Hours	Independent Study Time 110, Study Time i	n Lecture 70		
Credit points				
Course achievement				
Examination	Written elaboration			
Examination duration and	Written Assignment			
scale				
Assignment for the	Global Technology and Innovation Manage	ment & Entrepreneurship: Core Qualification: I	Elective Compulsory	
Following Curricula	,		same companyony	

Course L1962: Agile Design I	Methods	
Тур	Project Seminar	
Hrs/wk	3	
СР	3	
Workload in Hours	Independent Study Time 48, Study Time in Lecture 42	
Lecturer	Dr. Stephan Buse, Dr. Daniel Jarr	
Language	EN	
Cycle	SoSe	
Content	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 forster a new working paradim, a mindset of collaboration. The students will experience the connectior between methodology and working culture and reflect on their personal development on the one hand and the team dynamics or the other hand.	
Literature	• "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)	

Course L2294: Agile Design I	ourse L2294: Agile Design Methods		
Тур	Lecture		
Hrs/wk	2		
СР	3		
Workload in Hours	Independent Study Time 62, Study Time in Lecture 28		
Lecturer	Dr. Stephan Buse, Dr. Daniel Jarr		
Language	EN		
Cycle	SoSe		
Content	See interlocking course		
Literature	See interlocking course		

Courses				
Title		Тур	Hrs/wk	СР
Sustainable Innovation Manageme	nt (L1937)	Lecture	4	3
Sustainable Innovation Manageme	nt -Seminar (L1938)	Project-/problem-based Learning	3	3
Module Responsible	Prof. Cornelius Herstatt			
Admission Requirements	None			
Recommended Previous	Basic knowledge in business administration	l		
Knowledge				
Educational Objectives	After taking part successfully, students hav	e reached the following learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 82, Study Time in	Lecture 98		
Credit points	6			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
Assignment for the	Global Technology and Innovation Manager	nent & Entrepreneurship: Core Qualification: Compuls	ory	
Following Curricula				

Course L1937: Sustainable In	nnovation Management
Тур	Lecture
Hrs/wk	4
СР	3
Workload in Hours	Independent Study Time 34, Study Time in Lecture 56
Lecturer	Prof. Cornelius Herstatt
Language	EN
Cycle	SoSe
Content	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
Literature	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, 5 th edition, John Wiley and Sons, 2013. Goffin, K., Mitchell, R.: Innovation Management: Effective strategy and implementation Paperback, 3 rd edition, 15. November 2016

Course L1938: Sustainable In	nnovation Management -Seminar
Тур	Project-/problem-based Learning
Hrs/wk	3
СР	3
Workload in Hours	Independent Study Time 48, Study Time in Lecture 42
Lecturer	Prof. Cornelius Herstatt
Language	EN
Cycle	SoSe
Content	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.
Literature	Die Grundlagenliteratur ist deckungsgleich zu der gleichnamigen Vorlesungsliteratur. Hinzu kommt themenspezifische Fachliteratur bezüglich der zu behandelnden Fragestellungen.

Specialization 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.

Module M1386: Global Design (UoS)

Courses				
Title	Typ Hrs/wk CP			
Global Design (UoS) (L1965)	Lecture 5 5			
Module Responsible	Dr. Andrew Wodehouse			
Admission Requirements				
Recommended Previous				
Knowledge				
Professional Competence	After taking part successfully, students have reached the following learning results			
Knowledge				
	- Demonstrate knowledge and understanding of the management of distributed design projects.			
	- Demonstrate knowledge and understanding of how technology can effectively support distributed design activity.			
Skills	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.			
Personal Competence				
Social Competence	Teamwork: virtually; collocated; synchronous and asynchronous			
Autonomy	Literature searching, gathering, analysis			
	Literature review			
	Presentation skills			
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70			
Credit points	5			
Course achievement	None			
Examination	Subject theoretical and practical work			
	Examination at University of Strathclyde			
scale				
Assignment for the		ry		
Following Curricula				

Course L1965: Global Design	ourse L1965: Global Design (UoS)		
Тур	Lecture		
Hrs/wk	5		
СР	5		
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70		
Lecturer	Dr. Andrew Wodehouse		
Language	EN		
Cycle	WiSe		
Content			
Literature			

Module M1385: Desig	n Management (UoS)			
Courses				
Title		Тур	Hrs/wk	СР
Design Management (UoS) (L1964)		Lecture	5	5
Module Responsible	Prof. Alex Duffy			
Admission Requirements	None			
Recommended Previous Knowledge	None			
Educational Objectives	After taking part successfully, students hav	e reached the following learning results		
Professional Competence				
•	Knowledge 1. Appreciate and understand the role of design within an organisation and the organisational structures required for design. 2. Appreciate the role of design models, approaches and methods.			required for effect
	3. Know a variety of aspects and the compl	exities of design development.		
	4. Appreciate the role of innovation in design and know how to measure design performance.			
Skills	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 a	ctivity.	
	Articulation of the different types of design	models, approaches and methods.		
	Appreciation of the different strengths and	weaknesses of models, approaches and me	ethods.	
	Able to describe multiple aspects of design	development.		
	Articulation of complexities in design development	opment.		
Personal Competence				
Social Competence	Teamwork			
Autonomy	- Literature searching, gathering, analysis.			
	- Problem synthesis.			
	- Literature review writing.			
	- Presentation skills.			
Workload in Hours	Independent Study Time 80, Study Time in	Lecture 70		
Credit points	5			
Course achievement	None			
Examination	Written elaboration			
Examination duration and scale	Examination at University of Strathclyde			
Assignment for the Following Curricula	Global Technology and Innovation Manager	ment & Entrepreneurship: Specialisation Glo	bal Design Managemer	nt (UoS): Compulso

Course L1964: Design Manag	ourse L1964: Design Management (UoS)		
Тур	Lecture		
Hrs/wk	5		
СР	5		
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70		
Lecturer	Prof. Alex Duffy		
Language	EN		
Cycle	WiSe		
Content			
Literature			

Courses				
Title		Тур	Hrs/wk	СР
Postgraduate Group Project (UoS) ((L1966)	Project Seminar	20	20
Module Responsible	Dr. Anup Nair			
Admission Requirements	None			
Recommended Previous	None			
Knowledge				
Educational Objectives		following learning results		
Professional Competence Knowledge	Demonstrate knowledge and understanding of the various	s elements associated with the	respective course dis	ciplines.
	Demonstrate knowledge and understanding of products a	nd management practices in ir	ndustry.	
	Demonstrate knowledge and ability in applying and using various analysis and modelling tools and techniques in prod process realisation.			
	Demonstrate project planning and management, data coll	lection and analysis, presentat	ion, consulting and tea	am working skills.
Skills	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 com	ipany.	
	Critically review and evaluate analysis tools and modelling techniques.			
	Discuss and critically evaluate the implementation of anal	ysis tools and modelling techn	iques.	
Personal Competence				
Social Competence	Teamwork, team leadership.			
Autonomy	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.			
Workload in Hours	Independent Study Time 320, Study Time in Lecture 280			
Credit points	20			
Course achievement	None			
Examination				
Examination duration and scale	Examination at University of Strathclyde			
Assignment for the Following Curricula	Global Technology and Innovation Management & Entrepr	eneurship: Specialisation Glob	al Design Managemen	t (UoS): Compulsor

Course L1966: Postgraduate	Group Project (UoS)
Тур	Project Seminar
Hrs/wk	20
СР	20
Workload in Hours	Independent Study Time 320, Study Time in Lecture 280
Lecturer	Dr. Anup Nair
Language	EN
Cycle	WiSe
Content	
Literature	

Specialization Management of Technology, Innovation and Entrepreneurial Dynamics (Entrepreneurial Engineering) (AAU)

Business development through technology, innovation and entrepreneurship are the key competencies of the future in the global business arena, both in start-up companies, established private organisations and the public sector knowledge and service organisations. Finding new ways to create value is increasingly a condition for both private and public organisations.

Entrepreneurial Enginnering will teach you how to create, develop, and strengthen a business. You gain insight into methods and processes as well as organisational and management principles in relation to innovation and entrepreneurship in both new and established companies.

Get knowledge of:

- Idea generation, realization, and development
- Methods, processes, and principles for management and organisations to pursue innovation and entrepreneurship
- Business creation and development

Through the core subject of the programme, you specialise in corporate entrepreneurship and design processes, technological innovation management and applied business modeling, financial management and financing for entrepreneurs, marketing, and project management. Based on this, you can in semester projects choose to focus on either starting your own company or work with an already established company.

Through problem-based learning, you develop competencies to identify, analyse and present solutions to current and specific business challenges both individually and in teams. In this way, you build an educational profile that prepares you to take part in complex change processes and develop new solutions.

Module M1821: Semester Project incl. Executing Entrepreneurial Ideas (AAU) Courses Title Тур Hrs/wk CP Semester Project incl. Executing Entrepreneurial Ideas (AAU) (L3018) Project Seminar 15 15 Module Responsible ΝN **Admission Requirements** None **Recommended Previous** None Knowledge **Educational Objectives** After taking part successfully, students have reached the following learning results **Professional Competence** The objective is that the student after the module possesses the necessary knowledge on: Knowledge 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 The objective is that the student after the module possesses the necessary skills in: Skills planning business development and assessing the role of creativity in that. giving a critical perspective on effective and efficient business planning 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. Personal Competence Social Competence Autonomy Workload in Hours Independent Study Time 240. Study Time in Lecture 210 15 **Credit points Course achievement** None Examination Oral exam Examination duration and 40 min scale Global Technology and Innovation Management & Entrepreneurship: Specialisation Management of Technology, Innovation and Assignment for the Entrepreneurial Dynamics (Entrepreneurial Engineering) (AAU): Compulsory **Following Curricula**

Module Manual M.Sc. "Global Technology and Innovation Management & Entrepreneurship"

Course L3018: Semester Proj	ject incl. Executing Entrepreneurial Ideas (AAU)
Тур	Project Seminar
Hrs/wk	15
СР	15
Workload in Hours	Independent Study Time 240, Study Time in Lecture 210
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Courses					
Fitle		Тур	Hrs/wk	СР	
	vation and Applied Business Modelling (AAU) (L3019)	Project Seminar	10	10	
Module Responsible	NN				
Admission Requirements					
Recommended Previous	none				
Knowledge					
Educational Objectives	After taking part successfully, students have reached the	e following learning results			
Professional Competence					
Knowledge	The objective is that the student after the module posses	sses the necessary knowledge o	n:		
	 main concepts, definitions, theories and models r models. theories on how contextual factors affect the inno 		ological innovation pro	ocesses and busin	
	 how to distinguish between different business mo 		d in different industrie	es	
	 and insights into the important role of change in processes accordingly - both strategically and operations 		ould organise and ma	anage such transit	
Skills	SKILLS				
	The objective is that the student after the module posse	sses the necessary skills in:			
	 finding, accessing and assessing relevant data and information from databases and online sources on firms' business modelling activities identifying the various challenges involved in innovation processes and making recommendations for challenges. analytically and critically arguing for the most suitable business model for a new business based on data co 				
	desk- and field research.applying the business model as a strategic tool			ıding reflecting u	
	different archetypes of business models and scen	arios of business model prototyp	ing		
	COMPETENCES				
	The objective is that the student after the module posses	sses the necessary competences	s in:		
	 independently coordinating and conducting an an 	alvsis of innovation processes in	a firm.		
		oping recommendations for innovation management and applied business modelling in different types of organi			
	being self-reflective, critical and open to different	actors, competencies and const	raints through a proc	ess of organisatio	
	transition and change.				
Personal Competence					
Social Competence					
Autonomy					
Workload in Hours	Independent Study Time 160, Study Time in Lecture 140				
Credit points	10				
Course achievement	None				
Examination	Oral exam				
Examination duration and scale	40 min				
Assignment for the	Global Technology and Innovation Management & Entr	epreneurship: Specialisation Ma	nagement of Technol	ogy, Innovation a	
Following Curricula	Entrepreneurial Dynamics (Entrepreneurial Engineering)				

Course L3019: Management	of Technological Innovation and Applied Business Modelling (AAU)
Тур	Project Seminar
Hrs/wk	10
СР	10
Workload in Hours	Independent Study Time 160, Study Time in Lecture 140
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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 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 though, 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.
Literature	

Courses					
Title		Тур	Hrs/wk	СР	
Corporate Entrepreneurship, Mana	gement and Technology (AAU) (L3020)	Lecture	5	5	
Module Responsible	NN				
Admission Requirements	None				
Recommended Previous	none				
Knowledge					
Educational Objectives	After taking part successfully, students have re	ached the following learning results			
Professional Competence					
Knowledge	The objective is that the student after the mod	ule possesses the necessary knowledg	je on:		
	 main concepts, models and frameworks 	related to corporate entrepreneurship	. technology and innovation	on	
	 the role and impact of corporate entrepr 				
	 high-impact innovation processes and h 			th relevant actors	
	the business environment.				
Skills	//s The objective is that the student after the module possesses the necessary skills in:				
	 identifying and analysing challenges of 	corporate entrepreneurship, managem	ent and technology in org	anizations	
	 identifying the analysing chancinges of identifying relevant external actors and 				
				ip management a	
	 choosing relevant theories, methods, and tools in analysing issues related to corporate entrepreneurship m technology. 				
	The objective is that the student after the mod	ule possesses the necessary competer	nces in:		
	 auditing, evaluating and contributing to 	design of the innovative capabilities of	f an established organisat	ion.	
	 navigating in contexts of corporate en 	ntrepreneurship, management and te	echnology given the com	plexity, politics a	
	emergent nature of the processes.				
	developing conceptual solutions to the challe	anges faced by established organisat	ions when attempting to	organise corpora	
	entrepreneurship, management and technolog	• • •	····· ···· ····· ····· ····· ···· ···· ····	<u>j</u>	
Personal Competence					
Social Competence					
Autonomy					
Workload in Hours	Independent Study Time 80, Study Time in Leo	ture 70			
Credit points	5				
Course achievement	None				
Examination	Oral exam				
Examination duration and	40 min				
scale					
Assignment for the	Global Technology and Innovation Manageme	nt & Entrepreneurship: Specialisation	Management of Technolog	ogy. Innovation ar	

Course L3020: Corporate Ent	repreneurship, Management and Technology (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	to be announced

Module M1824: Project	ct Based Business Corporation I (AAU)			
Courses				
Title	Typ Hrs/wk CP			
Project based Business Cooperation	1 (AAU) (L3021) Project Seminar 10 10			
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous	none			
Knowledge				
Educational Objectives	After taking part successfully, students have reached the following learning results			
Professional Competence				
Knowledge	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			
	collaboration with external partners.			
	• critically thinking and reflecting on practice to connect theory and practice, including how principles from the mas			
	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.			
Skills				
Personal Competence				
Social Competence				
Autonomy				
,	Independent Study Time 160, Study Time in Lecture 140			
Credit points				
	None			
Examination	Oral exam			
Examination duration and	40 min			
scale				
Assignment for the	Global Technology and Innovation Management & Entrepreneurship: Specialisation Management of Technology, Innovation ar			
•	Entrepreneurial Dynamics (Entrepreneurial Engineering) (AAU): Elective Compulsory			
-				

ourse L3021: Project based	Business Cooperation I (AAU)
Тур	Project Seminar
Hrs/wk	10
CP	10
Workload in Hours	Independent Study Time 160, Study Time in Lecture 140
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Module M1825: Proje	ct Based Business Corporation II (AAU)			
Courses				
Title	Typ Hrs/wk CP			
Project based Business Cooperation	n II (AAU) (L3024) Project Seminar 15 15			
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous	none			
Knowledge				
Educational Objectives	After taking part successfully, students have reached the following learning results			
Professional Competence				
Knowledge	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:			
	The objective is that the student after the module possesses the necessary skins in.			
	• applying relevant knowledge and skills in practice to identify and solve specific master programme - related task			
	collaboration with external partners.			
	 critically thinking and reflecting on practice to connect theory and practice, including how principles from the m 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. 			
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 240, Study Time in Lecture 210			
Credit points	15			
Course achievement	None			
Examination	Oral exam			
Examination duration and	40 min			
scale				
Assignment for the	Global Technology and Innovation Management & Entrepreneurship: Specialisation Management of Technology, Innovation and			
Following Curricula	Entrepreneurial Dynamics (Entrepreneurial Engineering) (AAU): Elective Compulsory			

Course L3024: Project based	Business Cooperation II (AAU)
Тур	Project Seminar
Hrs/wk	15
СР	15
Workload in Hours	Independent Study Time 240, Study Time in Lecture 210
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Title Typ Hrs/wk CP Project Seeminar 20	Courses					
Project based Business Cooperation IV.AUU (1.3025) Project Semilar 20 20 Module Responsible NM	Title		Түр	Hrs/wk	СР	
Admission Requirements None Recommended Previous Knowledge none Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge Knowledge 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 collaboration with external partners. • critically thinking and reflecting on practice.	Project based Business Cooperatio	n III (AAU) (L3025)	Project Seminar	20	20	
Recommended Previous Knowledge none Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge LEARNING OBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: 	Module Responsible	NN				
Knowledge Vertaking part successfully, students have reached the following learning results Professional Competence ELRANING OBJECTIVES KNOWLEDGE Knowledge 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. Professional Competence • how organisations apply principles from the master programme discipline in practice. SILLS 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 collaboration with external partners. c:ritically 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: scical sciplines can be applied in practice to solve master programme-related tasks. • converting practical experiences performed during the business cooperation into learning and new knowledge. Scical Competence Jone • Skills Internet Study Time 320, Study Time in Lecture 280 Course achievement Independent Study Time 320, Study Time in Lecture 280 Course achievement Independent Study	Admission Requirements	None				
Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge EARNING 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 collaboration with external partners. critically thinking and reflecting on practice to connect theory and practice, including how principles from the mast 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. Skills Personal Competence Scial Competence Scial Competence Autonomy Workload in Hours Independent Study Time 320, Study Time in Lecture 280 Course achievement None <td>Recommended Previous</td> <td>none</td> <td></td> <td></td> <td></td>	Recommended Previous	none				
Professional Competence Knowledge LEARNING DBJECTIVES KNOWLEDGE The objective is that the student after the module possesses the necessary knowledge on: 	Knowledge					
Knowledge 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 collaboration with external partners. critically thinking and reflecting on practice to connect theory and practice, including how principles from the mast 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. Skills Personal Competence Scial Competence Automory Implement Study Time 320, Study Time in Lecture 280 Course achievement Inse Reamination duration and an exam Implement Study Time 320, Study Time in Lecture 280 Course achievement Implement Study Time 320, Study Time In Lec	Educational Objectives	After taking part successfully, students h	ave reached the following learning results			
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 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. Skills Personal Competence Autonom Workload in Hours Independent Study Time 320, Study Time in Lecture 280 Course achievement None Course achievement None Examination duration and 40 min	Professional Competence					
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 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 collaboration with external partners. critically thinking and reflecting on practice to connect theory and practice, including how principles from the mast programme disciplines can be applied in practice. COMPETENCES The objective is that the student after the module possesses the necessary competences in:		 how organisations apply principles 	from the master programme discipline in pract	ice.		
Fine objective is that the student after the module possesses the necessary skills in: 		• • • • • •				
File objective is that the student after the module possesses the necessary skills in: 			-			
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collaboration with external partners. collaboration with external partners. critically thinking and reflecting on practice to connect theory and practice, including how principles from the mass 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. • converting practical experiences performed during the business cooperation into learning and new knowledge. • combining theory and practice to solve master programme-related tasks. Skills Personal Competence Autonomy Vorkload in Hours Independent Study Time 320, Study Time in Lecture 280 Course achievement None Examination duration and 40 min		The objective is that the student after the module possesses the necessary skills in:				
 critically thinking and reflecting on practice to connect theory and practice, including how principles from the mass 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. Personal Competence Autonom Independent Study Time 320, Study Time in Lecture 280 Course achievemet None Course achievemet Oral exam Oral exam Oral exam 		• applying relevant knowledge and skills in practice to identify and solve specific master programme - related task				
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. Skills Personal Competence Social Competence Autonomy Independent Study Time 320, Study Time in Lecture 280 Course achievement None Examination duration and 0 ral exam Examination duration and 40 min		• critically thinking and reflecting on practice to connect theory and practice, including how principles from the				
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. • converting practical experiences performed during the business cooperation into learning and new knowledge. • combining theory and practice to solve master programme-related tasks. Skills Personal Competence Social Competence Autonomy Independent Study Time 320, Study Time in Lecture 280 Course achievement None Examination duration and 40 min Scale						
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. Skills Personal Competence Social Competence Autonomy Overkload in Hous Independent Study Time 320, Study Time in Lecture 280 Course achievemen None Examination duration and 40 min Examination duration and Scale						
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 combining theory and practice to solve master programme-related tasks. Skills Personal Competence Social Competence Autonomy Independent Study Time 320, Study Time in Lecture 280 Credit points 20 Course achievement None Course achievement Oral exam 40 min 40 min scale Independent Study Time Study						
Skills Skills Personal Competence Social Competence Autonomy Workload in Hours Independent Study Time 320, Study Time in Lecture 280 Credit points 20 Course achievement None Examination 40 min scale					wledge.	
Personal Competence Social Competence Social Competence Social Competence Autonomy Independent Study Time 320, Study Time in Lecture 280 Credit points 20 Course achievement None Examination duration and 40 min scale Independent Study Time Stud		 combining theory and practice to a 	solve master programme-related tasks.			
Social Competence Autonomy Autonomy Independent Study Time 320, Study Time in Lecture 280 Credit points 20 Course achievement None Examination duration and scale 40 min scale	Skills					
Autonomy Workload in Hours Independent Study Time 320, Study Time in Lecture 280 Credit points 20 Course achievement None Examination duration and scale 0ral exam scale	Personal Competence					
Workload in Hours Independent Study Time 320, Study Time in Lecture 280 Credit points 20 Course achievement None Examination Oral exam Examination duration and scale 40 min Scale	Social Competence					
Credit points 20 Course achievement None Examination Oral exam Examination duration and scale 40 min	Autonomy					
Course achievement None Examination Oral exam Examination duration and scale 40 min	Workload in Hours	Independent Study Time 320, Study Tim	e in Lecture 280			
Examination Oral exam Examination duration and scale 40 min	Credit points	20				
Examination duration and 40 min scale	Course achievement	None				
scale	Examination	Oral exam				
	Examination duration and	40 min				
Assignment for the Global Technology and Innovation Management & Entrepreneurship: Specialisation Management of Technology, Innovation a	scale					
	Assignment for the	Global Technology and Innovation Mana	gement & Entrepreneurship: Specialisation Ma	nagement of Technol	logy, Innovation ar	

Course L3025: Project based	Business Cooperation III (AAU)
Тур	Project Seminar
Hrs/wk	20
CP	20
Workload in Hours	Independent Study Time 320, Study Time in Lecture 280
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Courses					
Title		Тур	Hrs/wk	СР	
Business Design and Sustainability	(AAU) (L3022)	Lecture	5	5	
Module Responsible	NN				
Admission Requirements	None				
Recommended Previous	none				
Knowledge					
Educational Objectives	After taking part successfully, students ha	ave reached the following learning results			
Professional Competence					
Knowledge					
	The objective is that the student after the	module possesses the necessary knowledge	on:		
	 the theoretical fundamentals of the 	e functioning of markets in relationship to ent	repreneurship and susta	inability.	
	 key methods and processes for bus 	siness design both in theory and practice.			
	• theoretical and practical methods and approaches to navigating patterns for sustainbale 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 experising to access risks and expertualities related to sustainbale technologies and ideas 				
	 planning and organizing to assess risks and opportunities related to sustainbale technologies and ideas. applicition of article line to market barriers of sustainability and apply relevant leaving the applying 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 envi them. 				
	COMPETENCES		i		
	The objective is that the student after the	module possesses the necessary competence	ces in:		
	• applying relevant knowledge and abilities to generalise, abstract and build understanding of key issues within Busines				
	Design and Sustainability.				
	independently conducting ongoing analyses, adapting and possibly developing new solutions for key business design and				
	sustainability issues as the comple	xity increases.			
	translating the knowledge and abilities ne	ecessary in order to be part of processes rela	ated to business design	and sustainability (
	an academic, interdisciplinary and profess	sional basis.			
Skills					
Personal Competence					
Social Competence					
Autonomy					
Workload in Hours	Independent Study Time 80, Study Time i	n Lecture 70			
Credit points	5				
Course achievement	None				
Examination	Oral exam				
Examination duration and	20 min				
scale					
Assignment for the	Global Technology and Innovation Manag	gement & Entrepreneurship: Specialisation N	Management of Technol	ogy, Innovation an	
Following Curricula	Entrepreneurial Dynamics (Entrepreneuria		-		

Course L3022: Business Desi	gn and Sustainability (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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 sustainabile 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 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.
Literature	

Courses		
Title	Тур	Hrs/wk CP
Business Design (AAU) (L3023)	Lecture	5 5
Module Responsible	NN	
Admission Requirements		
Recommended Previous		
Knowledge		
Educational Objectives	After taking part successfully, students have reached the following learning result	S
Professional Competence		
Knowledge	The objective is that the student after the module possesses the necessary knowle	edge on:
	key theoretical approaches to business design in an open organisation	nal context being canable of reflecting on
	modification of business models on a scientific basis.	in concexe, being capable of reneeting on
	 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 organis 	
	Skills	
	The objective is that the student after the module possesses the necessary skills i	n:
	e colocting and applying relevant methods and tools in order to generate ly	and analyze key issues within husin
	 selecting and applying relevant methods and tools in order to generate kn design. 	lowledge and analyse key issues within busin
	 argueing both theoretically and practically for opportunities and limitations 	within husiness design in an open organisation
	context.	wann business design in an open organisatio
	 presenting and discussing professional and scientific issues within business 	design with different target groups.
	P	
	Competences	
	The objective is that the student after the module possesses the necessary compe	etences in:
	applying relevant knowledge and abilities to generalise, abstract and bu	uild understanding of key issues within busin
	design.	
	independently conducting ongoing analyses, adapting and possibly develop	ping new solutions for key business design iss
	as the complexity increases.	
	translating the knowledge and abilities necessary in order to be part of proces	ses related to business design on an acader
	interdisciplinary and professional basis.	
Skills		
Personal Competence		
Social Competence		
Autonomy		
	Independent Study Time 80, Study Time in Lecture 70	
Credit points		
Course achievement		
Examination duration and		
scale		
Assignment for the	Global Technology and Innovation Management & Entrepreneurship: Specialisat	ion Management of Technology, Innovation a
Following Curricula	Entrepreneurial Dynamics (Entrepreneurial Engineering) (AAU): Elective Compulso	νrγ

Course L3023: Business Desi	ign (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Courses						
Title		Тур	Hrs/wk	СР		
Sustainability and Non-Market Stra	tegy (AAU) (L3026)	Lecture	5	5		
Module Responsible	NN					
Admission Requirements	None					
Recommended Previous	none					
Knowledge						
Educational Objectives	After taking part successfully, students ha	we reached the following learning results				
Professional Competence						
Knowledge	LEARNING OBJECTIVES KNOWLEDGE					
	The objective is that the student after the	module possesses the necessary knowledge	e on:			
	 central theoretical and practical ap 	proaches to corporate social responsibility (0	CSR).			
		trategies to maximize social, environmental,				
	 defining and exemplifying the role 	es of different actors such as government,	non-government organis	ations, internation		
	organisations, and businesses in responding to sustainability challenges.					
	SKILLS					
	 SNLLS 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 concertional concertions. 					
	COMPETENCES	COMPETENCES				
	The objective is that the student after the module possesses the necessary competences in:					
	 taking a problem-based approach t 	o explore central challenges within sustainab	nility and non-market str	ategy		
	 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 opportun 					
	integrating knowledge from management theory and issues of sustainability for problem solving in real world challenges of					
		nt theory and issues of sustainability for p	problem solving in real	world challenges		
	sustainability.					
Skills						
Personal Competence						
Social Competence						
Autonomy						
Workload in Hours	Independent Study Time 80, Study Time i	n Lecture 70				
Credit points	5					
Course achievement	None					
Examination	Written elaboration					
	Examination at Aalborg University					
scale						
Assignment for the		gement & Entrepreneurship: Specialisation I	Management of Technol	ogy, Innovation ar		
Following Curricula	Entrepreneurial Dynamics (Entrepreneuria	al Engineering) (AAU): Elective Compulsory				

Course L3026: Sustainability	and Non-Market Strategy (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Courses					
Title		Тур	Hrs/wk	СР	
Causal Data Science for Decision M	aking in Business (AAU) (L3027)	Lecture	5	5	
Module Responsible	NN				
Admission Requirements	None				
Recommended Previous	none				
Knowledge					
Educational Objectives	After taking part successfully, students hav	e reached the following learning results			
Professional Competence					
Knowledge	LEARNING OBJECTIVES KNOWLEDGE				
	The objective is that the student after the r	nodule possesses the necessary knowledge	e on:		
	 correlation and causation and the inl 	herent differences of these concepts.			
		a range of causal data science tools and alg	jorithms.		
	 the theoretical and practical role of causal inference for data-driven business problems in strategic decisions. 				
	SKILLS	nodulo possossos the possessony skills in			
	The objective is that the student after the module possesses the necessary skills in:				
	 applying causal thinking to explore b 	oth theoretical and practical business decis	sions.		
	 identifying on an academic basis the 	potentials and challenges for applying cau	sal thinking in decision n	naking.	
	• presenting and discussing both professional and academic challenges within causal data science for diff				
	using relevant software.				
	COMPETENCES				
	The objective is that the student after the r	nodule possesses the necessary competend	ces in:		
	· independently complete out coursed	to apply sis to calve real world problems re	lated to business desisio	n making	
	 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. 				
	• uniting theory and practice within in	anagement theory in relation to causal line	rence in business analyti	ics.	
	applying a problem-based approach to cent	tral challenges within management and cau	usal inference in business	s analytics.	
Skills					
Personal Competence					
Social Competence					
Autonomy					
	Independent Study Time 80, Study Time in	Lecture 70			
Credit points					
Course achievement					
Examination	Written elaboration				
Examination duration and	Examination at Aalborg University				
scale	· · · · · · · · · · · · · · · · · · ·				
Assignment for the	Global Technology and Innovation Manage	ment & Entrepreneurship: Specialisation I	Management of Technolo	ogy, Innovation a	
-	Entrepreneurial Dynamics (Entrepreneurial			<i></i>	

Course L3027: Causal Data S	cience for Decision Making in Business (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
	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.
Literature	

Courses					
Fitle Responsible Business: Sustainabilit	y, Compliance and Control Issues (AAU) (L3028)	Typ Lecture	Hrs/wk 5	CP 5	
Module Responsible	NN				
Admission Requirements	None				
Recommended Previous					
Knowledge					
Educational Objectives	After taking part successfully, students have reached	d the following learning results			
Professional Competence					
Knowledge	LEARNING OBJECTIVES KNOWLEDGE				
	The objective is that the student after the module po	ossesses the necessary knowledg	je on:		
	 contextualizing, reviewing and justifing the role of (1) social responsibility; (2) compliance; (3) and management control i organizations that operate across the world. synthesizing and exemplifying the similarities and differences in the way corporations deal with the tensions generated b the need for being competitive at all costs and the need for being sustainable. 				
	CKIII C				
	SKILLS The objective is that the student after the module possesses the necessary skills in:				
	 selecting and applying appropriate manage opportunities they offer to organizations operate critically addressing global business responsib applying appropriate theoretical concepts to arguments for justifying or critiquing compani 	ating in a dynamic global contex ility issues through competent, o situations and cases that ch	t. context-specific communic	ation skills.	
	COMPETENCES				
	The objective is that the student after the module po	ossesses the necessary compete	ncy in:		
	 demonstrating an application of knowledge a by multinational companies with regard to iss control. 	-			
	critically assessing the management control challeng	ges faced by global corporations	with regard to constructin	ig and maintainin	
	reputation that can reflect responsible involvement v	with communities and attention t	to societal dynamics.		
Skills					
Personal Competence					
Social Competence					
Autonomy					
Workload in Hours	Independent Study Time 80, Study Time in Lecture 7	70			
Credit points	5				
Course achievement	None				
Examination	Written elaboration				
Examination duration and	Examination at Aalborg University				
scale					
Assignment for the	Global Technology and Innovation Management & I	Entrepreneurship: Specialisation	Management of Technolo	ogy, Innovation a	
Following Curricula	Entrepreneurial Dynamics (Entrepreneurial Engineer	ing) (AAU): Elective Compulsory			

Course L3028: Responsible B	Business: Sustainability, Compliance and Control Issues (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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 affect
Literature	

Courses					
Title		Тур	Hrs/wk	СР	
Entrepreneurial Finance (AAU) (L302	29)	Lecture	5	5	
Module Responsible	NN				
Admission Requirements	None				
Recommended Previous	none				
Knowledge					
Educational Objectives	After taking part successfully, students	have reached the following learning results			
Professional Competence					
Knowledge	LEARNING OBJECTIVES KNOWLEDGE				
	The objective is that the student after t	he module possesses the necessary knowledg	e on:		
	 how to conduct comprehensive 	evaluation of a new venture, valuation metho	ds. the purpose and chall	enges of performin	
	evaluation.			5	
	challenges of financing entrepre	neurial growth companies and sources of finan	icial resources.		
	 understanding the financial aspe 	ects of entrepreneurship, the stages of a start-	up development, exit stra	itegies.	
	SKILLS				
	The objective is that the student after the module possesses the necessary skills in:				
	The objective is that the statement of the module possesses the necessary skins in.				
	•	s and navigating the funding process from t	he perspective of both a	an entrepreneur a	
	venture capitalist.conducting venture valuation in practice by applying IT tools and understanding the impact of risk and uncertainty on the				
	•	practice by applying IT tools and understand	ing the impact of risk an	d uncertainty on t	
	choice of financing.				
	making mormal mancial decisio	ons, strategic planning and structuring deals.			
	COMPETENCES				
	The objective is that the student after t	he module possesses the necessary competer	nces in:		
	 logical thinking, critical analysis, entrepreneurial firm. 	evaluating and interpreting situations and pro	oblems that stakeholders	might confront in	
	• specific financial planning and financial decision-making needs of entrepreneurial ventures, including start up and				
	development phase financial and				
	applying intancial models to applaise t	he value of a venture or better evaluate the m	arket potential of all oppo	ortunity.	
Skills					
Personal Competence					
Social Competence					
Autonomy					
Workload in Hours	Independent Study Time 80, Study Tim	e in Lecture 70			
Credit points	5				
Course achievement	None				
Examination	Written elaboration				
Examination duration and	Examination at Aalborg University				
scale					

Course L3029: Entrepreneuri	al Finance (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Module Manual M.Sc. "Global Technology and Innovation Management & Entrepreneurship"

Courses					
Title		Тур	Hrs/wk	СР	
International Marketing (AAU) (L30	30)	Lecture	5	5	
Module Responsible	NN				
Admission Requirements	None				
Recommended Previous	none				
Knowledge					
Educational Objectives	After taking part successfully, students I	nave reached the following learning results			
Professional Competence					
Knowledge	LEARNING OBJECTIVES KNOWLEDGE				
	The objective is that the student after the	e module possesses the necessary knowledge	e on:		
	• the basic concepts, principles, and	d practices of international marketing, i.e., ma	rketing to customers in t	oreign markets.	
	• the international marketing envir	ronment and the specific marketing challeng	es that occur in the inte	ernational marketi	
	context.				
	SKILLS				
	The objective is that the student after the module possesses the necessary skills in:				
	÷	nternational opportunities and choosing a mar	ket entry strategy.		
	designing the international marketing mix.				
	 discussing the advantages and disadvantages of different entry mode strategies and providing recommendation 				
	most appropriate strategy.				
	COMPETENCES				
	The objective is that the student after th	e module possesses the necessary competend	ces in:		
	 analysing and evaluating a compare 	any's market opportunities in the global busine	ess environment.		
	formulating strategies that help compan	ies achieve their international marketing obje	ctives.		
Skills					
Personal Competence					
Social Competence					
Autonomy					
Workload in Hours	Independent Study Time 80, Study Time	in Lecture 70			
Credit points	5				
Course achievement	None				
Examination	Written elaboration				
Examination duration and	Examination at Aalborg University				
scale					
Assignment for the		agement & Entrepreneurship: Specialisation I	Management of Technol	ogy, Innovation a	
Following Curricula	Entrepreneurial Dynamics (Entrepreneur	rial Engineering) (AAU): Elective Compulsory			
Course L3030: International					
	Lecture				
Hre /wk	6				

Course L3030: International	Marketing (AAU)
Тур	Lecture
Hrs/wk	5
CP	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

C						
Courses						
Title		Тур	Hrs/wk	СР		
International Sales and Negotiation		Lecture	5	5		
Module Responsible						
Admission Requirements						
Recommended Previous Knowledge	none					
-	After taking part successfully, students h	ave reached the following learning results				
Professional Competence	After taking part successiony, students in	ave reached the following learning results				
•	LEARNING OBJECTIVES KNOWLEDGE					
Knowledge		e module possesses the necessary knowledge	- on			
	The objective is that the stadent after the	inoutic possesses the necessary knowledge				
	 negotiation theories for Business to 					
	 international differences in negotia 	•				
	 creating different types of value w 	ith stakeholders when negotiating.				
	SKILLS					
	The objective is that the student after the	e objective is that the student after the module possesses the necessary skills in:				
		suggest appropriate negotiation strategies for specific contexts.				
	 negotiating in practice. colocting control and relevant mot 	hods for how to achieve different outcomes t	brough pogotistions			
	• selecting central and relevant met	nous for now to achieve different outcomes t	iniougn negociacions.			
	COMPETENCES					
	The objective is that the student after the	e module possesses the necessary competen	ces in:			
	 analysing negotiation situations to 	suggest improvements.				
	 manage and plan negotiation strat 					
		approaches of how to influence and persuade	e in different situations.			
Skills						
Personal Competence						
Social Competence						
Autonomy	Independent Study Time 00, Study Time	in Lastura 70				
	Independent Study Time 80, Study Time	III LECLUIE /U				
Credit points Course achievement						
	Written elaboration					
Examination duration and scale	Examination at Aalborg University					
	Global Technology and Innovation Mana	gement & Entrepreneurship: Specialisation	Management of Technolo	av Innovation a		
-	Entrepreneurial Dynamics (Entrepreneuri		management of rechnolo	gy, mnovacion a		

Course L3031: International	Sales and Negotiations (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
	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.
Literature	

Module M1835: Strate	egic Brand Management (AA	AU)		
Courses				
Title		Тур	Hrs/wk	СР
Strategic Brand Management (AAU) (L3032)	Lecture	5	5
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous	none			
Knowledge				
Educational Objectives	After taking part successfully, students h	have reached the following learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 80, Study Time	in Lecture 70		
Credit points	5			
Course achievement	None			
Examination	Written elaboration			
Examination duration and	Examination at Aalborg University			
scale				
Assignment for the	Global Technology and Innovation Mana	agement & Entrepreneurship: Specialisation I	Management of Technol	ogy, Innovation and
Following Curricula	Entrepreneurial Dynamics (Entrepreneur	rial Engineering) (AAU): Elective Compulsory		

Course L3032: Strategic Bran	nd Management (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Courses					
Title		Тур	Hrs/wk	СР	
Global Environmental Dynamics an	d Firms Responses (AAU) (L3033)	Lecture	5	5	
Module Responsible	NN				
Admission Requirements	None				
Recommended Previous	none				
Knowledge					
Educational Objectives	After taking part successfully, students have	reached the following learning results			
Professional Competence					
Knowledge	LEARNING OBJECTIVES KNOWLEDGE				
	The objective is that the student after the mo	dule possesses the necessary knowledg	e on:		
	 theoretical views and concepts on the 	e emerging dynamics of society and te	echnological breakthroug	hs affecting mark	
	management, and product innovation i				
	 how firms respond to the emerging 	dynamics through various innovative	responses and how thos	e dynamics can	
	addressed in a particular company set	ing to ensure competitive competencies	5.		
	SKILLS				
	The objective is that the student after the module possesses the necessary skills in:				
	 explaining and illustrating the core con dura miss offerties firm/s compatibilities 		g of emerging social, digit	al and technologi	
	 dynamics affecting firm's competitiveness. defining, explaining and illustrating the relationships between different facets of emerging dynamics, their consequences of 				
	global market management, the innovative responses by firms, and the new technologies providing opportunities fo				
	 using artificial intelligence and big data in strategy formulation in international business. 				
	COMPETENCES				
	COMPETENCES	dule possesses the percessary competer	icos in:		
	The objective is that the student after the module possesses the necessary competences in:				
	 demonstrating the skills of identifyin 	g issues, challenges and possibilities	associated with emerging	g social, digital a	
	technological dynamics affecting comp	etitive competencies and sustainability	in global market.		
	communicating effectively in oral and written	n forms about various emerging social,	digital and technological	dynamics and th	
	impact on value creation, product and market	innovation, and competitive advantage			
CL ///-					
Skills Bersonal Competence					
Personal Competence Social Competence					
Autonomy					
	Independent Study Time 80, Study Time in Le	ecture 70			
Credit points					
Course achievement					
	Written elaboration				
	Examination at Aalborg University				
scale	· · · · · · · · · · · · · · · · · · ·				
Assignment for the	Global Technology and Innovation Managem	ent & Entrepreneurship: Specialisation	Management of Technolo	ogy, Innovation a	
•	Entrepreneurial Dynamics (Entrepreneurial Er		-		

Course L3033: Global Enviro	nmental Dynamics and Firms Responses (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

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Courses						
Title	oduct and Geographic Markets (AAU) (L3034)	Typ Lecture	Hrs/wk	CP 5		
Module Responsible						
Admission Requirements	None					
Recommended Previous	none					
Knowledge						
Educational Objectives	After taking part successfully, students have reached the followi	ng learning results				
Professional Competence						
Knowledge	LEARNING OBJECTIVES KNOWLEDGE					
	The objective is that the student after the module possesses kno	owledge about:				
	 concepts and theories with reference to emerging product 	t and geographic ma	rkots			
	 the role of design and technology in emerging product/set 		inkets.			
	 cross-country differences in strategies across emerging m 		f internationalization on en	nerging markets.		
	well as risks and opportunities in emerging markets and t					
	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 abi	lities in:				
	 applying and reflecting on the internationalization in emerican 	raing product and ge	ographic markets			
		 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	s and propose soluti	ons to issues based on ow	n understanding		
	the subject matter.					
Skills						
Personal Competence						
Social Competence						
Autonomy						
	Independent Study Time 80, Study Time in Lecture 70					
Credit points						
Course achievement						
Examination	Written elaboration					
Examination duration and	Examination at Aalborg University					
scale						
Assignment for the	Global Technology and Innovation Management & Entrepreneu	rship: Specialisation	Management of Technolo	gy, Innovation ar		
Following Curricula	Entrepreneurial Dynamics (Entrepreneurial Engineering) (AAU): I	Elective Compulsory				

Course L3034: Internationali	sation in Emerging Product and Geographic Markets (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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, discusses the effects of internationalization on emerging markets and assesses risks and opportunities in emerging markets and transitional economies.
Literature	

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Courses					
Title		Тур	Hrs/wk	СР	
Internationalisation of Diverse Orga	anisational Forms (AAU) (L3035)	Lecture	5	5	
Module Responsible	NN				
Admission Requirements	None				
Recommended Previous	none				
Knowledge					
Educational Objectives	After taking part successfully, students ha	ve reached the following learning results			
Professional Competence					
Knowledge	LEARNING OBJECTIVES KNOWLEDGE				
	The objective is that the student after the	module possesses knowledge about:			
	 nowly omorging concepts and these 	ries with reference to new organisational fo	rms and their internationa	lication	
		e internationalisation of various type of c			
	companies, etc.	internationalisation of various type of e	iganisational forms such		
		n of diverse organisational forms.			
	 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 inter 	nationalisation of diverse organisational for	ms.		
	 applying concepts and theories lear 	nt to understand the challenges and practi	ces to internationalising or	ganisations.	
		es to identify problems and propose soluti	ons to issues based on ow	in understanding	
	the subject matter.				
Skills					
Personal Competence					
Social Competence					
Autonomy					
Workload in Hours	Independent Study Time 80, Study Time in	Lecture 70			
Credit points	5				
Course achievement	None				
Examination	Written elaboration				
Examination duration and	Examination at Aalborg University				
scale					
Assignment for the	Global Technology and Innovation Manag	ement & Entrepreneurship: Specialisation	Management of Technolo	gy, Innovation a	
Following Curricula	Entrepreneurial Dynamics (Entrepreneuria				

Course L3035: Internationali	sation of Diverse Organisational Forms (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

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Courses				
Title		Тур	Hrs/wk	СР
Multinational Corporations and Inno	ovation in Ecosystems (AAU) (L3036)	Lecture	5	5
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous	none			
Knowledge				
Educational Objectives	After taking part successfully, students have re	ached the following learning results		
Professional Competence				
Knowledge	LEARNING OBJECTIVES KNOWLEDGE			
	The objective is that the student after the mode	ule possesses knowledge about:		
	 newly emerging concepts and theories 	in value creation and innovation su	ich as innovation ecosyste	ems platforms a
	digitalization.	in value creation and innovation se		
	 MNCs' innovation management practices 	and strategies from the value co-cre	ation and value capture pe	erspectives.
	 how innovation in ecosystems facilitates 			
	SKILLS			
	The objective is that the student after the mode	ule possesses skills in:		
	 analysing and synthesizing state-of-art k 	nowledge on MNCs' global innovation	management.	
	 gaining skills on network analysis with th 	e support of digital tools.		
	 developing own conceptualisation and e 	xplanation based on in-depth reflection	ons on and MNCs' global i	nnovation and val
	creation practices.			
	COMPETENCES			
	The objective is that the student after the mode	ule possesses abilities in:		
	applying digital tools and methods to fac			d 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 soluti	ions to issues based on ov	vn understanding
	the subject matter.			
Skills				
Personal Competence				
Social Competence				
Social Competence Autonomy				
	Independent Study Time 80, Study Time in Lect	ture 70		
Credit points	5			
Course achievement				
	Written elaboration			
Examination Examination duration and				
Examination duration and scale	Examination at Aalborg University			
Assignment for the	Global Technology and Innovation Managemer	t & Entrepreneurship: Specialization	Management of Technolo	av Innovation or
Following Curricula	Entrepreneurial Dynamics (Entrepreneurial Eng		management of recilloit	yyy, mmovation di

Course L3036: Multinational	Corporations and Innovation in Ecosystems (AAU)
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Courses						
Title		Тур	Hrs/wk	СР		
New Venture Creation / Corporate B	Entrepreneurship (AAU) (L3037)	Project Seminar	30	30		
Module Responsible	NN					
Admission Requirements	None					
Recommended Previous	none					
Knowledge						
Educational Objectives	After taking part successfully, students have re	ached the following learning results				
Professional Competence						
Knowledge	LEARNING OBJECTIVES KNOWLEDGE					
	The objective is that the student after the mod	ule possesses the necessary knowledge or	1:			
	 verifying business ideas/problems and 	l validating needs/pains from custome	rs, including assessir	ng potential marl		
	opportunities and validating assumption	s regarding the target market.				
	 understanding some of the key drivers 	that impact upon the successful creation	and management of	a new venture (ir		
	separate entity or within an existing orga					
	appreciating the importance of busines	ss models, customer development and a	agile development in	the process of n		
	venture creation/corporate venturing.					
	SKILLS					
	The objective is that the student after the mod	ule possesses the necessary skills in:				
	 generating new business ideas and y 	validating these, including and assessing	ng the resources rea	uired to pursue		
	 generating new business ideas and validating these, including and assessing the resources required to opportunity. 					
	 critically assessing new business ideas b 	ased on evidence from the market and to	prototype a Minimal	Viable Product.		
	understanding and mastering various	 understanding and mastering various physical and digital tools for MVP/MVE prototyping hereunder visualization to 				
	presentation tools, landing page, platform, and video editing.understanding the skills and resources needed to create an entrepreneurial organisation further apprehend different differences and the statement of the statement of					
	business model configurations and busir	ness model innovation routes in the entrep	reneurial process.			
	COMPETENCES					
	The objective is that the student after the mod	lule possesses the necessary competence	s in:			
	 creating business opportunities and fur business opportunity 	ther understanding now to acquiring nec	essary resources to p	Sursue the Identif		
	business opportunity.designing business models to match the	identified business opportunity evidence	from the market (and	the host compan		
		identified business opportunity, evidence	from the market (and	r the host company		
	pitching the business model of a new venture,	the underlying validation process and its a	cademic relevance.			
Skills						
Personal Competence						
Social Competence						
Autonomy						
Workload in Hours	Independent Study Time 480, Study Time in Le	cture 420				
Credit points	30					
Course achievement	None					
Examination	Oral exam					
Examination duration and	40 min					
scale						
Assignment for the	Global Technology and Innovation Management	nt & Entrepreneurship: Specialisation Ma	nagement of Technol	ogy, Innovation a		
Following Curricula	Entrepreneurial Dynamics (Entrepreneurial Eng	incoring) (AALI): Elective Compulsory				

Course L3037: New Venture	Creation / Corporate Entrepreneurship (AAU)
Тур	Project Seminar
Hrs/wk	30
СР	30
Workload in Hours	Independent Study Time 480, Study Time in Lecture 420
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Courses				
Title		Тур	Hrs/wk	СР
Commodity Economics (AAU) (L3038)	Project Seminar	30	30
Module Responsible				
Admission Requirements				
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students hav	e reached the following learning results		
Professional Competence				
Knowledge L	EARNING OBJECTIVES KNOWLEDGE			
٦	he objective is that the student after the r	nodule possesses the necessary knowledge on	::	
	• the extent to which markets are re	egulated politically and of trends in connection	on with the transform	nation of the glo
	commodity markets.	ignated politically and of trends in connectiv		nation of the glo
	 the basic options for managing risk in 	n the commodity market.		
		entals that drive commodity economics on th	ne market. Furthermo	re, be aware of t
	ethical challenges within commodity	economics.		
	KILLS			
	The objective is that the student after the r	nodule possesses the necessary skills in		
	 generating a theoretical and empirically informed decision basis on the background of various business models that ana the value chain (from up- to downstream) in the commodity complex in order that financial and risk management of materials purchase/sale may be handled professionally. identifying and describing (theoretically) a specific issue related to exposures (physical and/or financial) within commo economics and explaining the basic financial risks (and opportunities for risk management) related to the company's actional specific issue related to explain the specific to the company's actional specific issue related to explain the specific to the company's actional specific issue related to the company's actional specific to the company's actio			
		duction or possibly speculative perspectives		
	commodities.	addition of possibly speculative perspectives	in connection with	hok taking, ver
		n theories of risk management and/or trading	g strategy/manageme	ent (risk taking) a
		he perspective of current business models as		
		ancial management and risk/reward opportuni		
	COMPETENCES			
		nodule possesses the necessary competences	in·	
	 identifying and verifying an example 	of commodity exposure.		
e	explaining an example of an exposure or a	problem/an opportunity in the commodity man	ket	
Skille				
Skills Personal Competence				
Social Competence				
Autonomy				
-	ndependent Study Time 480, Study Time i	n Lecture 420		
Credit points				
-	Vone			
	Dral exam			
	10 min			
scale				

Module Manual M.Sc. "Global Technology and Innovation Management & Entrepreneurship"

Course L3038: Commodity Ec	conomics (AAU)
Тур	Project Seminar
Hrs/wk	30
СР	30
Workload in Hours	Independent Study Time 480, Study Time in Lecture 420
Lecturer	NN
Language	EN
Cycle	WiSe
Content	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.
Literature	

Specialization 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.

Module M1369: Busin	ess Modelling and System Dynam	ics (MU)		
Courses				
Title		Тур	Hrs/wk	СР
Business Modelling and System Dy	namics (MU) (L1948)	Lecture	5	5
Module Responsible	Prof. Lewlyn Rodrigues			
Admission Requirements	None			
Recommended Previous	None			
Knowledge				
Educational Objectives	After taking part successfully, students have reac	ned the following learning results		
Professional Competence				
Knowledge	 Know the importance of system thinking in 	an organization		
	 Understand the importance of modelling ar 	-		
	 Appreciate the wide range of applications of 			
	 Understand the stages of modelling process 			
	Methods for validating a System Dynamics			
Skills	After completing this module, students will have s	kills in:		
	 Identifying key parameters and its influence 	e on the system for a specific problem	l.	
	Developing a System Dynamics model.			
	 Interpretation of simulation results and poli 	cy formulation.		
Personal Competence				
Social Competence				
	After completing this module, students will have s	kills		
natonomy	viter completing this module, students will have s	KIIS.		
	 In predicting dynamic scenarios in business 			
	 Developing business models which will be h 		ovation.	
	 Applying a holistic view to business probler 	ns.		
Workload in Hours	Independent Study Time 80, Study Time in Lectur	e 70		
Credit points	5			
Course achievement	None			
Examination	Written exam			
Examination duration and	Prüfung abgelegt an der Manipal University			
scale				
Assignment for the	Global Technology and Innovation Management	& Entrepreneurship: Specialisation Op	oportunities and Challer	nges for Innovation
Following Curricula	Management in New Economic Powerhouses (MU)	: Compulsory		

Course L1948: Business Mod	elling and System Dynamics (MU)
Тур	Lecture
Hrs/wk	5
CP	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	Prof. Lewlyn Rodrigues
Language	EN
Cycle	WiSe
Content	
Literature	

Courses				
Title Technology, Creativity and Innovat	ion (MU) (L1951)	Typ Lecture	Hrs/wk 5	CP 5
Module Responsible	Prof. Shiva Prasad			
Admission Requirements	None			
Recommended Previous	None			
Knowledge				
Educational Objectives	After taking part successfully, students ha	ave reached the following learning results		
Professional Competence				
Personal Competence Social Competence	 Managing creativity, innovation an Understand the basic frameworks f Know the importance of facilitating Understand the importance of created of the importance of created of the importance of th	ding an ecosystem for creativity and innovation d technology. for assessing the technology capabilities of a l the adoption of new technology. titvity, innovation & technology to gain compe- ill have skills in: ies for enabling a supportive environment for apabilities of a business. eativity, innovation and technology managem ill have skills:	business. atitive advantage. fostering creativity and lent.	innovation.
	Identify the need for innovation anAssessing the feasibility of innovat	d apply creative solutions for the technologicative ideas.	al development.	
Workload in Hours	Independent Study Time 80, Study Time i	n Lecture 70		
Credit points	5			
Course achievement	None			
Examination	Written exam			
Examination duration and scale	Examination at Manipal University			
Assignment for the	Global Technology and Innovation Manag	gement & Entrepreneurship: Specialisation C	pportunities and Challe	enges for Innovat
	Management in New Economic Powerhou			

Course L1951: Technology, C	
Тур	Lecture
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	Prof. Shiva Prasad
Language	EN
Cycle	WiSe
Content	
Literature	

Courses				
Title		Тур	Hrs/wk	СР
Communication Across Cultures (M	U) (L2948)	Lecture	4	5
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, stude	nts have reached the following learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 94, Study T	Fime in Lecture 56		
Credit points	5			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
Assignment for the	Global Technology and Innovation	Management & Entrepreneurship: Specialisation	Opportunities and Chall	enges for Innovatio
Following Curricula	Management in New Economic Powe	erhouses (MU): Compulsory		

Course L2948: Communication Across Cultures (MU)		
Тур	Lecture	
Hrs/wk	4	
СР	5	
Workload in Hours	Independent Study Time 94, Study Time in Lecture 56	
Lecturer	NN	
Language	EN	
Cycle	WiSe	
Content		
Literature		

Courses				
Title		Тур	Hrs/wk	СР
Strategic Operations (MU) (L2949)		Lecture	4	5
Module Responsible	Prof. Cornelius Herstatt			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students h	ave reached the following learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 94, Study Time	in Lecture 56		
Credit points	5			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
Assignment for the	Global Technology and Innovation Mana	gement & Entrepreneurship: Specialisation	Opportunities and Challe	enges for Innovat
Following Curricula	Management in New Economic Powerhou	ses (MU): Compulsory		

Course L2949: Strategic Operations (MU)		
Тур	Lecture	
Hrs/wk	4	
СР	5	
Workload in Hours	Independent Study Time 94, Study Time in Lecture 56	
Lecturer	NN	
Language	EN	
Cycle	WiSe	
Content		
Literature		

Module M1792: Orgai	nic Growth of Family-owned	Business in India (MU)		
Courses				
Title		Тур	Hrs/wk	СР
Organic Growth of Familiy-owned E	Business in India (MU) (L2950)	Lecture	4	5
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students h	nave reached the following learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 94, Study Time	in Lecture 56		
Credit points	5			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
Assignment for the	Global Technology and Innovation Mana	agement & Entrepreneurship: Specialisation	Opportunities and Challe	enges for Innovat
Following Curricula	Management in New Economic Powerhou	uses (MU): Compulsory		

Course L2950: Organic Growth of Familiy-owned Business in India (MU)		
Тур	Lecture	
Hrs/wk	4	
СР	5	
Workload in Hours	Independent Study Time 94, Study Time in Lecture 56	
Lecturer	NN	
Language	EN	
Cycle	WiSe	
Content		
Literature		

Module M1793: Understanding the Service Market in India (MU)				
Courses				
Title		Тур	Hrs/wk	СР
Understanding the Service Market	in India (MU) (L2951)	Lecture	4	5
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students	s have reached the following learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 94, Study Tin	me in Lecture 56		
Credit points	5			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
Assignment for the	Global Technology and Innovation Ma	anagement & Entrepreneurship: Specialisation	Opportunities and Challe	enges for Innovation
Following Curricula	Management in New Economic Powerh	houses (MU): Compulsory		

Course L2951: Understanding the Service Market in India (MU)		
Тур	Lecture	
Hrs/wk	4	
СР	5	
Workload in Hours	Independent Study Time 94, Study Time in Lecture 56	
Lecturer	NN	
Language	EN	
Cycle	WiSe	
Content		
Literature		

Specialization 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 conduced 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.

Module M1355: Information Technology Management (APU) Courses Title Hrs/wk CP Тур Information Technology Management (APU) (L1930) Lecture 4 Prof. Yukihiko Nakata Module Responsible **Admission Requirements** None **Recommended Previous** None Knowledge After taking part successfully, students have reached the following learning results Educational Objectives **Professional Competence** Knowledge 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 Skills 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 Personal Competence Key Qualifications: Social Competence 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 Autonomy Workload in Hours Independent Study Time 64, Study Time in Lecture 56 **Credit points Course achievement** None Examination Written exam Examination duration and Examination at Ritsumeikan Asia Pacific University scale Assignment for the Global Technology and Innovation Management & Entrepreneurship: Specialisation Technology and Innovation Management in Following Curricula Japan (APU): Compulsory

Hrs/wk 4 CP 4 Workload in Hours Ir Lecturer P Language E Cycle W Content T a fr	Lecture 4 4 4 4 4 4 4 4 4 4 4 4 4 4 6 7 7 7 7 7
Hrs/wk 4 CP 4 Workload in Hours Ir Lecturer P Language E Cycle V Content T a fr	4 4 1 1 1 1 1 1 1 1 1 1 1 1 1
CP 4 Workload in Hours Ir Lecturer P Language E Cycle V Content T a fr a	A ndependent Study Time 64, Study Time in Lecture 56 Prof. Yukihiko Nakata EN WiSe 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 competiveness 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
Workload in Hours Ir Lecturer P Language E Cycle W Content T a fr a	ndependent Study Time 64, Study Time in Lecture 56 Prof. Yukihiko Nakata EN WiSe 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 competiveness 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
Lecturer P Language E Cycle W Content T a fr a	Prof. Yukihiko Nakata EN WiSe 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 competiveness 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
Language E Cycle W Content T a fr a	EN WiSe 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 competiveness 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
Cycle W Content T a fr a	WiSe 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 competiveness 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
Content T a fr a	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 competiveness 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
a fr a	advantage of a company. Innovations of the 21st century such as Apple's iPod - and the competiveness 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
۱۲ ۲ ۲ ۵	 addition, information technologies are the core for management, manufacturing and service processes. no this sense Information Technology Management is important to accelerate innovations and strengthen competitiveness and ad extra value. The course objective is to master "Total Information Technology (MOT), which is the management to lead R&D to business and add 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: Requirements for Digitalization IT systems 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 of IPel and Smith of FedEx Social Networking Service: Business Developing by IT
Literature	 Turban, E., Volonino, L., Wood, G. R. (2005) Information Technology for Management: Digital Strategies for Insight, Action, and Sustainable Performance, John Wiley & Sons.

Module M1356: Techr	nology Management (APU)			
Courses				
Title		Тур	Hrs/wk	СР
Technology Management (APU) (L1	931)	Lecture	4	4
Module Responsible	Prof. Masanori Namba			
Admission Requirements	None			
Recommended Previous	None			
Knowledge				
Educational Objectives	After taking part successfully, students hav	e reached the following learning results		
Professional Competence				
		n processes		
Personal Competence				
Social Competence	- Teamwork and communication skills			
	- Intercultural management skills			
Autonomy	- Leadership			
	- Analytical decision making			
Workload in Hours	Independent Study Time 64, Study Time in	Lecture 56		
Credit points	4			
Course achievement	None			
Examination	Written exam			
Examination duration and	Examination at Ritsumeikan Asia Pacific Un	iversity		
scale				
Assignment for the	Global Technology and Innovation Manage	ement & Entrepreneurship: Specialisation Te	chnology and Innova	tion Management in
Following Curricula	Japan (APU): Compulsory			

ourse L1931: Technology M	anagement (APU)
Тур	Lecture
Hrs/wk	4
CP	4
Workload in Hours	Independent Study Time 64, Study Time in Lecture 56
Lecturer	Prof. Masanori Namba
Language	EN
Cycle	WiSe
Content	 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 5 Core Competences and their evolution, and Case Study (Intel) 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 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
Literature	 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 Yo 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 managin innovation-driven enterprises (Industrielle Organisation). Simon, H. () Hidden champions of the twenty-first century : success strategies of unknown world market leaders, Springer.

Courses				
Title		Тур	Hrs/wk	СР
Japanese Corporations and Asia Pa	cific (APU) (L1932)	Lecture	4	4
Module Responsible	Prof. Kaoru Natsuda			
Admission Requirements	None			
Recommended Previous	Basic business knowledge.			
Knowledge				
Educational Objectives	After taking part successfully, students have	reached the following learning results		
Professional Competence				
Kilowieuge	The aim of this course is to provide knowled Pacific region. The contents of the course in management, keiretsu, general trading co internationalization strategy (or regionalizati corporations have conducted foreign direct i the students' participation through a presen which will be selected in the Asia Pacific region	clude Japanese domestic business and e mpanies, the role of the Japanese go on) of Japanese corporations. We will part nvestment in the region in the historical tation: Investment Promotion - how to at	economic systems includ vernment in the economic cicularly examine how Jap perspective. In addition,	ing human resourd my, as well as th panese multination the course require
Skills	By the end of the module students will have	earned:		
	Completion of the course will assists student political economy as well as issues in the Asi are required of anyone if they wish to put the	a Pacific. It will also assist students to de	velop research and prese	
	Subject-related knowledge and understandin	g:		
	 Knowledge of Japanese management s Knowledge of Japanese political econo Knowledge of Japanese foreign direct i 	my such as keiretsu system, developmen	tal state concept, industr	
	Knowledge of the Asia Pacific economy and in	nternational relations in Asia.		
Personal Competence				
Social Competence	Teamwork and communication skills			
Autonomy	- Management skills			
	- Decision making			
	- Presentation skills			
Workload in Hours	Independent Study Time 64, Study Time in Le	ecture 56		
Credit points	4			
Course achievement	None			
Examination	Written exam			
Examination duration and scale	Examination at Ritsumeikan Asia Pacific Univ	ersity		
	Global Technology and Innovation Managen	nent & Entrepreneurship: Specialisation	Technology and Innovati	ion Management i
-	Japan (APU): Compulsory			

Course L1932: Japanese Corr	porations and Asia Pacific (APU)
	Lecture
Hrs/wk	
СР	
	Independent Study Time 64, Study Time in Lecture 56
Lecturer	Prof. Kaoru Natsuda
Language	EN
Cycle	WiSe
Content	 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 VIIII. Japanese Corporations and Future of the Asia Pacific
Literature	 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.

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Courses				
Гitle		Тур	Hrs/wk	СР
4ajor Seminar (APU) (L1939)		Seminar	6	6
Module Responsible	Prof. Rian Beise-Zee			
Admission Requirements	None			
Recommended Previous	None			
Knowledge				
Educational Objectives	After taking part successfully, stude	nts have reached the following learning results		
Professional Competence				
Knowledge	Changing programme related topics			
Skills	Competence to be gained according	to the different topics (projects in cooperation w	ith Japanese firms).	
Personal Competence				
Social Competence	Teamwork and communication skills	5.		
Autonomy	Management and decision making sl	kills.		
Workload in Hours	Independent Study Time 96, Study T	Time in Lecture 84		
Credit points	6			
Course achievement	None			
Examination	Written elaboration			
Examination duration and	Examination at Ritsumeikan Asia Pag	cific University		
scale				
Assignment for the	Global Technology and Innovation I	Management & Entrepreneurship: Specialisation	Technology and Innovat	tion Managemen
Following Curricula	Japan (APU): Compulsory			

course Ersson Major Semina	
Тур	Seminar
Hrs/wk	6
СР	6
Workload in Hours	Independent Study Time 96, Study Time in Lecture 84
Lecturer	Prof. Rian Beise-Zee
Language	EN
Cycle	WiSe
Content	
Literature	

Module M1366: Mana	gement in Asia and Japan (API	U)		
Courses				
Title		Тур	Hrs/wk	СР
Management in Asia and Japan (AP	U) (L1945)	Lecture	4	4
Module Responsible	Prof. Ali Haidar			
Admission Requirements	None			
Recommended Previous	Basic management subjects.			
Knowledge				
Educational Objectives	After taking part successfully, students have	e reached the following learning results		
Professional Competence				
Personal Competence Social Competence	 Learn ways of sustaining economic gr Develop successful management care Balance the needs of the society and Develop oral and written communication ski Be culturally sensitive Teamwork International communication skills Management skills Leadership 	the objectives of corporations	riencing	
Workload in Hours	Independent Study Time 64, Study Time in L	_ecture 56		
Credit points	4			
Course achievement	None			
Examination	Written exam			
Examination duration and	Examination at Ritsumeikan Asia Pacific Univ	versity		
scale				
•	Global Technology and Innovation Manager	ment & Entrepreneurship: Specialisation Tec	chnology and Innovati	ion Management i
Following Curricula	Japan (APU): Elective Compulsory			

Course L1945: Management	in Asia and Japan (APU)
Тур	Lecture
Hrs/wk	4
СР	4
Workload in Hours	Independent Study Time 64, Study Time in Lecture 56
Lecturer	Prof. Ali Haidar
Language	EN
Cycle	WiSe
Content	
Literature	

Courses			
Title		Тур	Hrs/wk CP
National Innovation Systems (APU)	(L1935)	Lecture	4 4
Module Responsible	Prof. Behrooz Asgari		
Admission Requirements	None		
Recommended Previous	None		
Knowledge			
Educational Objectives	After taking part successfully, students	have reached the following learning results	
Professional Competence			
Knowledge	Subject-related knowledge and underst	anding:	
	 Key concepts of national system 	s of innovation	
	The nation-specific determinants		
		elopment of product and service innovations	
Skills	After completing this module, students	will have skills in:	
	 language and concepts of nation 	al and regional determinants of innovation for	product and service development
	 related product development iss 		
Personal Competence			
Social Competence			
Autonomy	After completing this module, students	will have skills:	
	• familiarization with the system a	pproach of innovation	
	 ability of apply principles of national structure 	onal systems of innovation to decision problem	is of policy makers and public administra
	Independent Study Time 64, Study Tim	e in Lecture 56	
Credit points			
Course achievement			
Examination			
	Examination at Ritsumeikan Asia Pacific	c University	
scale			
-		nagement & Entrepreneurship: Specialisation	Technology and Innovation Manageme
Following Curricula	Japan (APU): Compulsory		
Course L1935: National Inno			
Тур	Lecture		
Hrs/wk	4		
CP	4		
Workload in Hours	Independent Study Time 64, Study Tim	e in Lecture 56	
Lecturer	Prof. Behrooz Asgari		
Language	EN		
Cycle	WiSe		
Content	 Why study National Innovation S 	vstems?	
	 The Concept of National Ir 		
	 National Structures and Po 		
	Analytical Perspectives: What is		
	 History and Development 		
	 The system nature of inno 		
	Recent Trends in NIS Research		
	 NIS and Innovation Policy 		
	 NIS and mnovation Folicy 		
	Examples of National Innovation	Systems	
		Systems	
	Examples of National Innovation	Systems	

• Korea

Malaysia

Literature No textbook , but a journal articles and book chapters

Title Typ Hrs/wk CP Quality and Operations Management (APU) (11336) Prof. Behrooz Asgari 4 4 Module Responsible Prof. Behrooz Asgari 4 4 Admission Requirements None - - Admission Requirements None - - Recommended Previous None - - Knowledge After taking part successfully, students have reached the following learning results - - Professional Competence - - - - - Knowledge -	Courses				
Module Responsible Prof. Behrooz Asgari Admission Requirements None Recommended Previous Knowledge None Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge Knowledge of the foundations of Quality and Operations Management • knowledge of the foundations of Quality and Operations Management • Innorduction to tools and approaches useful in improving organisational processes and products Skills 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 throu operations. Personal Competence Social Competence Autonomy After completing this module, students will have skills: • language, concepts, and tools to deal with quality and operations issues in order to gain competitive advantage throu operations. Personal Competence Social Competence Independent Study Time of A 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. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points 4 Course achisevement	Title		Тур	Hrs/wk	СР
Admission Requirements None Recommended Previous Knowledge None Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge 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 Skills 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 thror operations. Personal Competence Skills familiarization with the problems and issues confronting operations managers ability of apply principles and methods of an integrated quality and operations management. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points 4 Course achievement None Examination Written exam Examination Written exam	Quality and Operations Manageme	nt (APU) (L1936)	Lecture	4	4
Recommended Previous Knowledge None Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge •	Module Responsible	Prof. Behrooz Asgari			
Knowledge After taking part successfully, students have reached the following learning results Professional Competence knowledge base for studies and work in the field of Quality and Operations Management knowledge of the foundations of Quality and Operations Management knowledge of the foundations 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 Skills 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 throu operations. Personal Competence After completing this module, students will have skills: scicial Competence After completing this module, students will have skills: scicial Competence After completing this module, students will have skills: science of the foundation with the problems and issues confronting operations management. Image: analitication with the problems and issues confronting operations management. Workload in Hom Image: and the foundation of Automomy Image: analitication with the problems and issues confronting operations management. Course achieveme Image: analitication with the problems and issues confronting operations management. Image: analitication with the problems and issues confronting operations management.	Admission Requirements	None			
Educational Objectives After taking part successfully, students have reached the following learning results Professional Competence Knowledge knowledge • knowledge base for studies and work in the field 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 Skills 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 throu operations. Personal Competence 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 managerent. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points 4 Course achievement None Examination Written exam Examination duration and Examination at Ritsumeikan Asia Pacific University	Recommended Previous	None			
Professional Competence knowledge 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 Skills 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 throm operations. Personal Competence Sacial Competence Autonomy 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. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points 4 Course achievement None Examination duration and Examination at Ritsumeikan Asia Pacific University 	Knowledge				
Knowledge 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 Killis 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 throu operations. Personal Competence Social Competence Autonomy familiarization with the problems and issues confronting operations managers ability of apply principles and methods of an integrated quality and operations management. Workload in Houre Independent Study Time 64, Study Time in Lecture 56 Credit point quality and operations management. Examination duration and Written exam	Educational Objectives	After taking part successfully, students have	reached the following learning results		
 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 Kkills 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 thror operations. Personal Competence After completing this module, students will have skills: language, concepts, and tools to deal with quality and operations issues in order to gain competitive advantage thror operations. Personal Competence After completing this module, students will have skills: familiarization with the problems and issues confronting operations management. Morkload in Hours independent Study Time 64, Study Time in Lecture 56 Credit points Mone Course achievement More Kamination duration and Examination at Ritsumeikan Asia Pacific University 	Professional Competence				
 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>Skills</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 throu operations. Personal Competence <i>Social Competence</i> <i>Atter completing this module, students will have skills:</i> familiarization with the problems and issues confronting operations managers ability of apply principles and methods of an integrated quality and operations management. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points Mone Examination duration and Kitsumeikan Asia Pacific University 	Knowledge	 knowledge base for studies and work i 	n the field of Quality and Operations Mana	agement	
 e an introduction to tools and approaches useful in improving organisational processes and products Understanding of Japanese-style quality management philosophy and processes 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 throu operations. Personal Competence Social Competence After completing this module, students will have skills: language, concepts, and tools to deal with quality and operations issues in order to gain competitive advantage throu operations. Personal Competence Social Competence After completing this module, students will have skills: familiarization with the problems and issues confronting operations management. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points Mone Mone Mone Examination duration an Ritsumeikan Asia Pacific University 		-		gemene	
 Understanding of Japanese-style quality management philosophy and processes 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 throu operations. Personal Competence Social Competence 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. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points Mone Examination duration and Examination duration at Ritsumeikan Asia Pacific University 		-		esses and products	
Personal Competence - language, concepts, and tools to deal with quality and operations issues in order to gain competitive advantage throu operations. Personal Competence - Social Competence Social Competence - Attenomy Autonomy 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. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Course achievement None Examination duration and Written exam					
Personal Competence - language, concepts, and tools to deal with quality and operations issues in order to gain competitive advantage throu operations. Personal Competence - familiarizations. Social Competence - familiarization with the problems and issues confronting operations managers - familiarization with the problems and issues confronting operations managers - ability of apply principles and methods of an integrated quality and operations management. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Course achievement None Examination duration and Written exam					
Personal Competence operations. Social Competence Atter completing this module, students will have skills: Autonomy 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. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points 4 Course achievement None Examination duration and Kritten exam Examination duration and Examination duration at Ritsumeikan Asia Pacific University	Skills	After completing this module, students will he	ave skills in:		
Personal Competence Social Competence AutonomyAfter completing this module, students will have skills: 		 language, concepts, and tools to deal 	I with quality and operations issues in or	der to gain competitive	e advantage throu
Social Competence AutonomyAfter completing this module, students will have skills: 		operations.			
Social Competence AutonomyAfter completing this module, students will have skills: 	Personal Competence				
AutonomyAfter 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. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points 4 Course achievement None Examination duration and Examination duration and Ritsumeikan Asia Pacific University 		After completing this module, students will be	ave skills:		
e ability of apply principles and methods of an integrated quality and operations management. Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points 4 Course achievement None Examination Written exam Examination duration and Examination at Ritsumeikan Asia Pacific University	hatohomy				
Workload in Hours Independent Study Time 64, Study Time in Lecture 56 Credit points 4 Course achievement None Examination Written exam Examination duration and Examination at Ritsumeikan Asia Pacific University			• •		
Credit points 4 Course achievement None Examination Written exam Examination duration and Examination at Ritsumeikan Asia Pacific University		 ability of apply principles and methods 	s of an integrated quality and operations r	nanagement.	
Course achievement None Examination Written exam Examination duration and Examination at Ritsumeikan Asia Pacific University	Workload in Hours	Independent Study Time 64, Study Time in Le	ecture 56		
Examination Written exam Examination duration and Examination at Ritsumeikan Asia Pacific University	Credit points	4			
Examination duration and Examination at Ritsumeikan Asia Pacific University	Course achievement	None			
	Examination	Written exam			
scale	Examination duration and	Examination at Ritsumeikan Asia Pacific Univ	ersity		
	scale				
	Following Curricula	Japan (APU): Compulsory			

Lecturer Prof. Language EN Cycle WiSe Content	ependent Study Time 64, Study Time in Lecture 56 5. Behrooz Asgari e • Operations Strategy in a Global Environment • Operations and Productivity • Quality and Operations Management • Lean Production
CP 4 Workload in Hours Inde Lecturer Prof. Language EN Cycle WiSe Content	e • Operations Strategy in a Global Environment • Operations and Productivity • Quality and Operations Management • Lean Production
Workload in Hours Inde Lecturer Prof. Language EN Cycle WiSe Content	e • Operations Strategy in a Global Environment • Operations and Productivity • Quality and Operations Management • Lean Production
Lecturer Prof. Language EN Cycle WiSe Content	e • Operations Strategy in a Global Environment • Operations and Productivity • Quality and Operations Management • Lean Production
Language EN Cycle WiSe Content	e • Operations Strategy in a Global Environment • Operations and Productivity • Quality and Operations Management • Lean Production
Cycle WiSe Content	 Operations Strategy in a Global Environment Operations and Productivity Quality and Operations Management Lean Production
Content	 Operations Strategy in a Global Environment Operations and Productivity Quality and Operations Management Lean Production
	 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

Module M1363: Proje	ct Management (APU)			
Courses				
Title	Typ Hrs/wk CP			
Project Management (APU) (L1940)) Lecture 4 4			
Module Responsible	Prof. Noboyuki Yamamura			
Admission Requirements	None			
Recommended Previous	Basic management subjects.			
Knowledge				
Educational Objectives	After taking part successfully, students have reached the following learning results			
Professional Competence Knowledge				
Skills	 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. 			
Personal Competence				
Social Competence	- Teamwork and communication skills			
Autonomy	- Intercultural management skills specific to Japan and Asia			
Αυτοποιτιγ	 - Leadership and decision making skills. - Project management skills. 			
Workload in Hours	Independent Study Time 64, Study Time in Lecture 56			
Credit points	4			
Course achievement	None			
Examination	Written exam			
Examination duration and	Examination at Ritsumeikan Asia Pacific University			
scale				
Assignment for the				
Following Curricula	Japan (APU): Elective Compulsory			

Course L1940: Project Manag	Course L1940: Project Management (APU)		
Тур	Lecture		
Hrs/wk	4		
СР	4		
Workload in Hours	ependent Study Time 64, Study Time in Lecture 56		
Lecturer	rof. Noboyuki Yamamura		
Language	EN		
Cycle	WiSe		
Content			
Literature			

Courses							
Title		Тур	Hrs/wk	СР			
Management of Japanese Family B	usinesses (APU) (L1947)	Lecture	4	4			
Module Responsible	Prof. Kenji Yokoyama						
Admission Requirements	None						
Recommended Previous	Basic management subjects.						
Knowledge							
Educational Objectives	After taking part successfully, students h	ave reached the following learning results					
Professional Competence							
Knowledge	Five Models of family business						
	,	ition, relationship with community and longel	aity				
			JILY				
	51 5	How Japanese family business is different from those of other countries The secret of the success of Japanese Family business					
	 The secret of the success of Japanese Family business What are important for successful family business 						
	· What are important for successful						
Skills	The students will learn management and leadership skills specific to small and medium size familiy businesses in Japan. Thi						
	incorporates general communication and	l project management skills as well as intercu	ultural skills for the Japan	ese region.			
Personal Competence							
Social Competence	- Teamwork and communication skills.						
	- Project management skills.						
	i oject management skinst						
Autonomy	Leadership and decision making skills						
Workload in Hours	Independent Study Time 64, Study Time	in Lecture 56					
Credit points	4						
Course achievement	None						
Examination	Written exam						
Examination duration and	Examination at Ritsumeikan Asia Pacific University						
scale							
Assignment for the	Global Technology and Innovation Mana	agement & Entrepreneurship: Specialisation	Technology and Innovat	ion Management			
Following Curricula	Japan (APU): Elective Compulsory						

Course L1947: Management	ourse L1947: Management of Japanese Family Businesses (APU)		
Тур	Lecture		
Hrs/wk	4		
СР	4		
Workload in Hours	Independent Study Time 64, Study Time in Lecture 56		
Lecturer	Prof. Kenji Yokoyama		
Language	EN		
Cycle	WiSe		
Content			
Literature			

Courses					
Title		Тур	Hrs/wk	СР	
Supply Chain Management (APU) (_1946)	Lecture	4	4	
Module Responsible	Prof. Rian Beise-Zee				
Admission Requirements	None				
Recommended Previous	Basic management subjects.				
Knowledge					
Educational Objectives	After taking part successfully, students	have reached the following learning results			
Professional Competence					
Knowledge	 How the supply chain is designed 	lucing fundamental principles			
	How the supply chain is designed				
		ficiency by focusing on Variety: of offerings b	•		
		rocesses of the supply chain and Manage in	-	to reduce cost a	
		y to enable continuous learning and improvement			
		operations in a variety of industries, includir	ng manufacturing, banki	ing, health care a	
	retailing				
Skills	- Skills to design a supply chain				
	- Skills to improve a supply chain using continuous improvement approaches				
Personal Competence					
	Teamwork and communication skills.				
Autonomy	- Project management skills				
	- Analytical decision making skills				
Workload in Hours	Independent Study Time 64, Study Time	a in Lactura 56			
Credit points					
Course achievement					
	Written exam				
	Examination at Ritsumeikan Asia Pacific	University			
scale		. onversity			
	Global Technology and Innovation Mar	agement & Entrepreneurship: Specialisation	Technology and Innovat	ion Management	
Assignment for the	sissai iserinology una innovation mar	agement a Entrepreneursmp. Specialisation	.cc		

Course L1946: Supply Chain	Course L1946: Supply Chain Management (APU)		
Тур	Lecture		
Hrs/wk	4		
СР	4		
Workload in Hours	Independent Study Time 64, Study Time in Lecture 56		
Lecturer	Rian Beise-Zee		
Language	EN		
Cycle	WiSe		
Content			
Literature			

Module Manual M.Sc. "Global Technology and Innovation Management & Entrepreneurship"

Module M1364: Japan	ese I (APU)				
Courses					
Title Japanese I (APU) (L1943)		Typ Lecture	Hrs/wk 4	CP 4	
Module Responsible	Prof. Rian Beise-Zee				
Admission Requirements	None				
Recommended Previous	None				
Knowledge					
Educational Objectives	After taking part successfully, students	have reached the following learning results			
Professional Competence					
Knowledge	By the end of the module students will	have learned:			
	 To speak and familiarize themse 	lves with Japanese as a foreign language			
			the lananese language	Those will be able	
		 The students will be able to identify the basic sounds, words and expressions of the Japanese language. They will be abl say or express basic ideas, sentences, and desires in simple sentences. They will learn to write the Japanese script and learn to be able to			
			r learn to write the Japa	nese script and lea	
	enough vocabulary to continue v	vith the Basic 2 level course.			
Skills	Students will gain basic communication	skills in the Japanese language.			
Personal Competence					
Social Competence	Communication skills.				
Autonomv	The course will help students orienting	g themselves in every day life in Japan throug	ah a better understand	ing of language a	
	culture.		,	<u> </u>	
Workload in Hours	Independent Study Time 64, Study Tim	e in Lecture 56			
Credit points	4				
Course achievement	None				
Examination	Written exam				
Examination duration and	Examination at Ritsumeikan Asia Pacific	C University			
scale					
Assignment for the	Global Technology and Innovation Mar	nagement & Entrepreneurship: Specialisation 1	Fechnology and Innovat	ion Management	
Following Curricula	Japan (APU): Elective Compulsory				

Course L1943: Japanese I (Al	Course L1943: Japanese I (APU)	
Тур	Lecture	
Hrs/wk	4	
СР	4	
Workload in Hours	Independent Study Time 64, Study Time in Lecture 56	
Lecturer	Prof. Rian Beise-Zee	
Language		
Cycle	WiSe	
Content		
Literature		

Specialization 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.

Module M1786: Strategic Management (KTU) Courses Title Hrs/wk СР Тур Strategic Management (KTU) (L2944) 10 Lecture 4 Module Responsible NN **Admission Requirements** None **Recommended Previous** Knowledge **Educational Objectives** After taking part successfully, students have reached the following learning results Professional Competence Knowledae Skills Personal Competence Social Competence Autonomy Workload in Hours Independent Study Time 244, Study Time in Lecture 56 10 **Credit points Course achievement** None Written exam Examination Examination duration and 90 min Assignment for the Global Technology and Innovation Management & Entrepreneurship: Specialisation Technology Venturing (KTU): Compulsory Following Curricula

Course L2944: Strategic Man	urse L2944: Strategic Management (KTU)		
Тур	Typ Lecture		
Hrs/wk	4		
СР	CP 10		
Workload in Hours	dependent Study Time 244, Study Time in Lecture 56		
Lecturer	Ν		
Language	EN		
Cycle	WiSe		
Content			
Literature			

Module M1787: Data	Analysis Methods (KTU)			
Courses				
Title		Тур	Hrs/wk	СР
Data Analysis Methods (KTU) (L294	15)	Lecture	4	5
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students have reached the fol	llowing learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 94, Study Time in Lecture 56			
Credit points	5			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
Assignment for the	Global Technology and Innovation Management & Entreprer	neurship: Specialisatior	Technology Venturing (KTU): Compulsory
Following Curricula				

Course L2945: Data Analysis	ourse L2945: Data Analysis Methods (KTU)		
Тур	Lecture		
Hrs/wk	4		
СР	5		
Workload in Hours	ependent Study Time 94, Study Time in Lecture 56		
Lecturer			
Language	EN		
Cycle	WiSe		
Content			
Literature			

Module M1788: Resei	rach Project (KTU)			
Courses				
Title		Тур	Hrs/wk	СР
Research Project (KTU) (L2946)		Project Seminar	5	5
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students have reached the	e following learning results		
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70			
Credit points	5			
Course achievement	None			
Examination	Written elaboration			
Examination duration and	approximately 10 pages written elaboration and oral pr	esentation		
scale				
Assignment for the	Global Technology and Innovation Management & Entre	preneurship: Specialisation Techr	ology Venturing (KTU): Compulsory
Following Curricula				

ourse L2946: Research Project (KTU)	
Тур	Project Seminar
Hrs/wk	5
СР	5
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70
Lecturer	NN
Language	EN
Cycle	WiSe
Content	
Literature	

Module M1789: Comm	nunication and Negotiation (KTU)		
Courses				
Title		Тур	Hrs/wk	СР
Communication and Negotiation (K	TU) (L2947)	Lecture	4	5
Module Responsible	NN			
Admission Requirements	None			
Recommended Previous				
Knowledge				
Educational Objectives	After taking part successfully, students have reached the following learning results			
Professional Competence				
Knowledge				
Skills				
Personal Competence				
Social Competence				
Autonomy				
Workload in Hours	Independent Study Time 94, Study Time i	n Lecture 56		
Credit points	5			
Course achievement	None			
Examination	Written exam			
Examination duration and	90 min			
scale				
Assignment for the	Global Technology and Innovation Manag	ement & Entrepreneurship: Specialisation	Technology Venturing (KTU	I): Compulsory
Following Curricula				

Course L2947: Communication and Negotiation (KTU)	
Тур	Lecture
Hrs/wk	4
СР	5
Workload in Hours	Independent Study Time 94, Study Time in Lecture 56
Lecturer	NN
Language	EN
Cycle	WiSe
Content	
Literature	

C					
Courses					
Title Business Models Innovation (KTU) (L1955)		Typ Lecture	Hrs/wk	CP 5	
	Prof. Giedrius Jucevičius		-		
Admission Requirements	None				
Recommended Previous	General management theory (non-mandatory)			
Knowledge					
Educational Objectives	After taking part successfully, students have	eached the following learning results			
Professional Competence					
Knowledge	 <i>ledge</i> 1. Knows the concepts of value innovation and business model innovation, understands their theoretical structure and is can 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 bound markets and industries 				
	3. Knows the main patterns of business mode	ls and is capable of linking them with th	e 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 capabl successfully in organizational activities			le of applying ther	
	8. Is capable of testing the prototypes of new	value propositions in the market and in	terpreting the obtained d	ata	
Skills	 Able to identify new business possibilitie changes 	s through profound and entrepreneuri	al evaluation of econom	ic, social, and othe	
	2. Capable of creating innovative business mo	odels, processes of innovation implemer	ntation, and business inte	lligence systems.	
	3. Able to think sistemically, critically, and creatively; capable of communicating and presenting the acquired knowledge.				
Personal Competence					
Social Competence	Teamwork, discussion, ideas sharing, harmon	izing business development and the prin	nciples of sustainable dev	elopment	
Autonomy	Presentation skills, literature research, data c	ollection, analyses and interpretation ba	ased on gained theoretica	l concepts.	
Workload in Hours	Independent Study Time 80, Study Time in Le	cture 70			
Credit points	5				
Course achievement	None				
Examination	Written exam				
Examination duration and scale	Examination at Kaunas Technical University				
Assignment for the	Global Technology and Innovation Manageme	nt & Entrepreneurship: Specialisation To	echnology Venturing (KTU	J): Compulsory	
Following Curricula	,	, p. p			

ourse L1955: Business Models Innovation (KTU)			
Тур	Lecture		
Hrs/wk	5		
CP	5		
Workload in Hours	Independent Study Time 80, Study Time in Lecture 70		
Lecturer	Prof. Giedrius Jucevičius		
Language	EN		
Cycle	SoSe		
Content	 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 		
	 Key concepts in change management Overcoming the barriers to implementing value innovation 		
Literature	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.		

Thesis

Module M-003: Maste	r Thesis		
Courses			
Title	Тур	Hrs/wk	СР
Module Responsible	lt. FSPO		
Admission Requirements	 According to General Regulations §21 (1): 		
	• According to General Regulations 321 (1).		
	At least 60 credit points have to be achieved in study programme. The examinati	ons board decides on e	xceptions.
Recommended Previous			
Knowledge			
Educational Objectives	After taking part successfully, students have reached the following learning results		
Professional Competence			
Knowledge			
	 The students can use specialized knowledge (facts, theories, and methods) of the students can use specialized knowledge (facts, theories, and methods) of 	their subject compete	ently on specialized
	issues. • The students can explain in depth the relevant approaches and terminologie	s in one or more are	as of their subject
	describing current developments and taking up a critical position on them.	is in one of more are	as of their subject,
	• The students can place a research task in their subject area in its context and	describe and critically	assess the state of
	research.		
Skills	The students are able:		
	• To select, apply and, if necessary, develop further methods that are suitable for s	olving the specialized r	problem in question.
	• To apply knowledge they have acquired and methods they have learnt in the	• • •	
	incompletely defined problems in a solution-oriented way.		
	To develop new scientific findings in their subject area and subject them to a criti	cal assessment.	
Personal Competence			
Social Competence	Students can		
, ,			
	 Both in writing and orally outline a scientific issue for an expert audience accu 	rately, understandably	and in a structured
	 way. Deal with issues competently in an expert discussion and answer them in a ma 	nnor that is annronriat	a ta tha addressaas
	while upholding their own assessments and viewpoints convincingly.		
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Autonomy	Students are able:		
	 To structure a project of their own in work packages and to work them off accordi 	ingly	
	 To work their way in depth into a largely unknown subject and to access the infor 	•••	em to do so.
	 To apply the techniques of scientific work comprehensively in research of their owner. 		
	Independent Study Time 900, Study Time in Lecture 0		
Credit points Course achievement			
Examination	according to Subject Specific Regulations		
Examination duration and			
scale			
	Global Technology and Innovation Management & Entrepreneurship: Thesis: Compulsory	4	
Following Curricula			
	1		